

# SUSTAINABILITY REPORT 2015



### VISION

To be a leading oil refiner and oil products marketing enterprise in Greece and the wider region.

### CORPORATE MISSION

increase the company's corporate value for and effectively, while expanding our the benefit of all stakeholders -shareholders, share in the domestic market. personnel, customers, suppliers, associates and partners, as well as the local and greater community- applying technological and commercial innovations.

**To conduct** our business operations so as to **To meet** our customers' needs responsibly

To function reliably, swiftly and flexibly in our relationship with employees, customers, suppliers, and the general public, by making use of practices that demonstrate responsibility and integrity, as well as respect for people and the environment.

## **STRATEGIC GOALS**

performance.

exploiting opportunities in our three markets Quality, through the application of technical, (domestic, aviation-marine bunkering, and operational and organisational innovations export), for achieving the best possible and improvements. profitability.

Maximising the profitability of all the<br/>companies of the Group and overall financialMaximisation and optimisation of sales,<br/>by effectively marketing our products andStriving for the highest standards of Health<br/>and Safety. Environmental protection and

#### Integrity

Respect for laws and regulations.
Applying business ethics and the principles of corporate governance.

Honest and open communication.
Credibility and respectability in all kinds of business relations.

#### Efficiency

• Achieving set targets. Creating value for shareholders and society. · Servicing customers' needs. Providing a safe, stimulating and reciprocal workplace. Continuous improvement and promotion of learning and innovation.

#### Social responsibility

 Respect for all stakeholders. Respect for the environment and commitment for sustainable growth. Priority for Health and Safety. Ensuring that the companies of the Group are active and responsible corporate citizens, respecting the local community and society as a whole.

#### Respect for our people

We recognise the value of our people and we We recognise the value of our natural We operate professionally and responsibly. promote their personal development, while environment and the necessity for sustainable offering competitive terms of employment, development and commit ourselves to the within a working environment of respect and implementation of effective operational mutual trust. We respect human and labour procedures and technology for its protection. rights and give first priority to workplace Health and Safety assurance.

#### Respect for the environment

**OUR PRINCIPLES** 

#### Transparency

strictly implementing the principles of business ethics and corporate governance.

# Sustainability Report 2015

# 44 YEARS MOTOR OIL

The growth of MOTOR OIL: Important milestones



Commissioning of the refinery. It comprises a Crude Oil Distillation Unit, a base oils production unit and port facilities.

#### 1978 Commissioning of the Catalytic Reformer

Construction of a Unit for gasoline fuel gas.



1993

#### Aramco). Relocation of the Head Office to a modern

Offices Complex in Maroussi.

#### 996 200 Purchase of 50% of Increase of the the company's shares company's equity

by Saudi Arabian capital through public Oil Company (Saudi offer of shares and listing on the Athens Stock Exchange.

> Upgrading of the Lubes Vacuum Distillation Unit.

#### 2004 Commissioning of the new Truck Loading Terminal at the

refinery.

2005 The Hydrocracker Complex is

commissioned, facilitating the production of "clean fuels" conforming to European Union specifications for 2005 and 2009.

Repurchase of Saudi Aramco's stake in the company.

2006

# 2007

Registration of the company in the Hellenic Register of EMAS (Eco-Management and Audit Scheme). Issue of the first voluntary Environmental Statement, conforming with EU Regulation EMAS ER 761/2001.

## 2009 Increase of the

AVIATION FUEL 28.0% to 92.06%.

# 1975

production.

Construction completion of the Crude Distillation Complex. Construction completion of the 1.5 million cubic metres tank farm.

1980

ISO 9002 qualit certification for

# 2000

Construction of new units and upgrading of the Naphtha Reformer into a continuous 103-octane number catalyst regeneration unit for the production of fuels conforming to EU specifications.

2002

2008

System, according to OHSAS 18001:2007.

participation in the share capital of OFC SERVICES S.A. from

Entry into natural gas trading in collaboration with MYTILINEOS S.A.

# 201

Completion of the construction of 5<sup>th</sup> gas turbine in refinery's power cogeneration plant, which now has a total capacity of 85MW.

Construction completion of KORINTHOS POWER S.A power plant, located in the MOTOR OIL refinery premises.

### 2015 MOTOR OIL

achieves, for the eighth year in a row, sales and production record (12.8 and 11.7 million MT respectively).

# 2010

# 2014

Acquisition of 100% of the retail oil marketing

# MANAGEMENT MESSAGE

For the Motor Oil Group, 2015 was an excellent year in terms of financial results. After a series of challenging years, the market showed signs of improvement and developed favorable conditions for the sector with high refinery margins, despite the negative impact of the reserves evaluation caused by the international fall of crude prices. Our Group managed to exploit the circumstances in the best possible way by putting into action an effective combination of strategic choices and by continuing our traditional focus on exports. And all the above, in spite of the especially difficult business environment in the country with the banks being closed for a long period of time and with the imposed capital controls stressing even more the market and the consumers.

In this context, we continue to operate on a constant base focused on our goals and aiming for growth. Our priority is to deliver service and support to our customers, our shareholders, our employees and all our various other stakeholders. For all the above, we ensure high productivity, constant growth and the delivery of a positive financial and social footprint. In 2015, we managed to achieve, for 8 years in a row, a record in sales and in production while our exports reached 76% of our sales. Our operating profitability reached 492 million euros and our net Group profits reached 205 million euros. The total evaluation of our social product reached 482.2 million euros.

Our commitment to sustainable growth lays in the epicenter of all our business activity. We continuously develop new training programmes and modern procedures for the management and evolution of our workforce that counted to 1,924 employees at the end of 2015. Additionally, we invest in the development of particular sensitivity towards Safety, which constitutes a major priority for us and we continuously build the "Goal Zero" culture, that aims for zero accidents and zero incidents in all our operations and especially in all our depots and facilities.

We continuously invest to reduce our environmental footprint by adopting Best Available Techniques that lead to the reduction of our emissions and to the enhancement of our energy efficiency, as well as the management of all by-products or waste.

In addition, the support we offer to the society remains an integrated part of our operations. In 2015, we distributed 3.1 million euros for various programmes and initiatives to support the wider society, the sensitive groups that are affected particularly harshly by the crisis and also the local communities residing near our installations.

All the above are described in detail in this "Sustainability Report 2015", the fourteenth such report, which describes in detail our Group's activities. Once more this year, this edition has complied with the guidelines of the Global Reporting Initiative under the G4 scheme, focusing on the materiality of the data presented and on an objective and transparent presentation of our results. In this context, this Report serves as our "Communication On Progress" on the basis of our commitment to disclose information according to the principles of the UN Global Compact which we endorse and support.

With 44 years of operation in Greece, we stand firm at our commitment for responsible entrepreneurship and we strive continuously to produce and distribute financial and social value.

Motor Oil Group Management

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# **ON THE SUSTAINABILITY REPORT 2015**

This Sustainability Report of 2015 is the fourteenth such record of the annual activities of the MOTOR OIL Group (1 January 2015 - 31 December 2015). The primary concern of the Report is to provide comprehensive information for all stakeholders in the Group: workforce, customers, suppliers, shareholders, investors, creditors and local communities.

The Report underlines the Group's sincere commitment to a responsible and sustainable growth. As an active member of the community, the MOTOR OIL Group strives to achieve sustainable development by responding to the environmental challenges deriving from its operations while at the same time tries to meet the needs of the local and wider society.

The structure of the Sustainability Report 2015 complies with the totality of aspects of corporate responsibility. It focuses, therefore, on actions that demonstrate respect for human values and the environment, the implementation of an effective health and safety policy and support for efforts to achieve sustainable social development. The various sections of the Report describe in detail the Group's activities, with presentations of the latest quantitative figures and data.

The terms 'Group' and 'MOTOR OIL Group' refer to the MOTOR OIL Group and its constituent subsidiary Groups and companies, AVIN OIL, Coral, Coral Gas, LPC and OFC. The term 'company' refers to the parent company 'MOTOR OIL'; the terms 'other companies' and 'remaining companies' refer to the aforesaid set of companies, while the term 'commercial companies' refers, once again, to the aforesaid set of companies, not - however - including OFC.

#### **Global Reporting Initiative - UN Global Compact**

The selection of topics for the Sustainability Report 2015 was based on the G4 guidelines of the Global Reporting Initiative (GRI), on the oil & gas sector supplement and on the ten principles of the United Nations Global Compact.

At the end of the Report there is a summary table matching the contents of the current Report to the GRI indicators and Global Compact principles. In this sense the Sustainability Report 2015 also serves as a "Communication on Progress" for the Global Compact, setting out the way in which its ten principles have been implemented.

Supplementary data for the Group's activities can be found in the Annual Financial Report 2015 and the Environmental Statement 2015, as well as at the company website, **www.moh.gr** 

#### Communication

The MOTOR OIL Sustainability Report 2015 has been edited and compiled by the Group's Communications, Corporate Affairs and Corporate Social Responsibility Department. We wish to extend our heartfelt thanks to all other Divisions and Departments whose contributions of data have allowed us to produce a comprehensive Report.

We welcome all views and observations on the structure and content of the report - your input will help us to keep improving its quality.

Please contact us on +30 210 8094004, or send your comments to csr@moh.gr.

# IDENTITY AND CORPORATE RESPONSIBILITY

FULL ADVANTAGE OF FAVOURABLE INTERNATIONAL CIRCUMSTANCES FURTHER NET BANK DEBT REDUCTION MATURING OF INVESTMENTS AND ACQUISITIONS

**12.8 MILLION TONS** MOTOR OIL SALES
HIT HISTORIC NEW RECORD

**76%** OF SALES ARE EXPORTS FURTHER REINFORCEMENT OF EXPORT ORIENTATION

# We produce energy and create value reliably and responsibly.

In all the years during which the MOTOR OIL Group has been operating as an oil refiner and oil products marketing company, it has always functioned with a strong sense of corporate responsibility, aiming at sustainable profitability and development in a socially responsible manner. It implements targeted investment programs aiming at the continuous development and optimisation of its productive activity, always bearing in mind the Vision and the corporate values that form the framework of its operation and business activity.

2015 was a very positive year for MOTOR OIL with exceptional financial results. Conditions in the sector and low prices internationally led to an increased demand for petroleum products, leading to high refinery margins. The Group's consolidated results were higher that the respective ones from the mother company as a result of the integration of Cyclon's retail station that was completed in the end of 2014 and enhanced even further our market share in the retail fuels sector.

For 2015 as well, company strategy has focused primarily on attaining a high degree of refinery employment, on optimal distribution of products, on the 3 main markets in which it does business (domestic market, exports and shipping/aviation), and on creating positive cash flows. As a result of all the above, MOTOR OIL managed to achieve record sales and fuel production figures (12.8 million and 11.7 million MT respectively) for the eighth year running. Actually, its total volume of sales significantly exceeded the refinery's annual production capacity.

At the same time, overseas sales in 2015 (including shipping and aviation) accounted for 76.1% of the company's total volume of sales, compared with 75.1% in 2014, owing to the fact that the company exploited to the full its export capacity.

Finally, regarding our financial overview, the creation of positive cash flows allowed on one hand an uninterrupted funding of our turnover and operating activities, while on the other hand further reducing our net bank debt, actually achieving the lowest net debt since 2005.

## 1. PROFILE OF THE MOTOR OIL GROUP

The MOTOR OIL Group had an average workforce size of 1,924 and a consolidated turnover in 2015 representing around 4% of the Greek GDP as well as total assets on a consolidated basis of 2.57 billion euros. It plays a leading role in the sectors of crude oil refining and marketing of petroleum products in Greece, as well as the greater eastern Mediterranean region, supplying its customers with a wide range of high guality products.

The MOTOR OIL parent company was founded in 1970 and the refinery commenced operations in 1972. The company has been guoted on the Athens Stock Exchange since 2001. It is listed on the index of 25 companies with the highest capitalization (FTSE/ATHEX Large Cap), the General Index (ATHEX COMPOSITE INDEX) and on individual sector indices

- The refining of crude oil and marketing of oil products are the main activities of the MOTOR OIL Group, whose refinery is one of the most technologically sophisticated, complex and flexible (in terms of production processes) refineries to be found anywhere in Europe or elsewhere.
- In the area of trade, the Group has achieved in recent years further development of its activities and an expansion of its domestic market share. The basis for this development are the liquid fuel retail networks of its subsidiaries AVIN OIL and Coral (formerly SHELL HELLAS S.A.). Moreover, since June 2015, the liquid fuel trade activities of CYCLON were transferred to AVIN OIL, continuing under the same trade mark. Together, the 3 networks consist of a total of approximately 1,350 service stations selling liquid fuels. accounting for about 35% of the domestic market.
- In the lubricants sector, LPC S.A. was established in June of 2015 (after the split of the operations of CYCLON HEL-LAS S.A.), at the same time transferring to it the entire lubricants segment of AVIN OIL. LPC is responsible for the production and trade of various lubricants and is the core of this activity in the Group.
- The Group enjoys a presence in the liquefied gas sector through Coral Gas SA. The company stores, packages and markets bottled and bulk liquefied gas and liquefied gas for vehicles, and has a market share of around 30%.
- The Group has laid the foundations for its presence in the electricity generation sector, through a 35% stake acquired by the MOTOR OIL S.A. in KORINTHOS POWER S.A. (the other 65% stake is held by MYTILINAIOS S.A. Group of Businesses). The company has a combined-cycle, natural gas fuelled, power station, with a capacity of 436.6 MW. located next to the MOTOR OIL facilities at Ag. Theodoroi, Corinth which came on line in 2012

- The Group has already established a presence in the natural gas market through M & M NATURAL GAS S.A., in which MOTOR OIL holds an equal stake with MYTILINAIOS S.A. Group of Businesses. In 2011, M & M received a license to supply natural gas from the Ministry of the Environment. Energy and Climate Change, under which it has the right to sell natural gas for the next twenty years.
- The Group is active in the aviation fuel services sector through OFC AVIATION FUEL SERVICES S.A. in which MOTOR OIL and subsidiary AVIN OIL hold an equal stake of 46.03% each. OFC is the company which constructed and operates the existing, automated system for supplying aviation fuel to the Eleftherios Venizelos Airport, Athens, as well as the fuel storage facilities at the same airport.
- Finally, the Group has a stake in companies providing support for its operations, such as MOTOR OIL Finance plc, supplying financial services, MOTOR OIL Cyprus Limited, a holding company, and the company Building Facility Services, which supplies facility management and operation services.

The table on the next page sets out major subsidiary and affiliated companies comprising the MOTOR OIL Group, as well as the stakes held in them (directly or indirectly) by the parent company. More detailed information on the companies can be found in the Annual Financial Report 2015.

NAME	ACTIVITY		GE SHARE
AVIN OIL S.A.	Marketing of petroleum products	100%	
CORAL S.A.	Marketing of petroleum products	100%	
CORAL GAS S.A.	Marketing of liquefied petroleum gas	100%	
LPC S.A. LUBRICANTS & PETROLEUM PRODUCTS	Processing and marketing of lubricants and petroleum products	100%	
OFC AVIATION FUEL SERVICES S.A.	Aviation Fuel Supply Systems	46.03%	46.03%
M AND M NATURAL GAS S.A.	Marketing of natural gas	50%	
SHELL & MOH S.A. AVIATION FUELS	Marketing of aviation fuels		49%
KORINTHOS POWER S.A.	Production and marketing of electrical energy	35%	
ATHENS AIRPORT FUEL PIPELINE COM- PANY S.A.	Supply of aviation fuel via pipeline to E. Venizelos Airport	16%	
MOTOR OIL (CYPRUS) LIMITED	Holding Company	100%	
MOTOR OIL FINANCE plc	Financial services	100%	
MOTOR OIL MIDDLE EAST DMCC	Marketing of crude oil and oil products		100%
BUILDING FACILITY SERVICES	Provision of facility management and operation services	100%	

This Report includes results only for the parent company MOTOR OIL and for the subsidiaries AVIN OIL, Coral, Coral Gas, LPC and OFC.

# 2. REFINERY

The Refinery is located in Agioi Theodoroi, Corinth, about 70 km from the center of Athens. The Refinery with its ancillary plants and fuel distribution facilities forms the largest privately owned industrial complex in Greece, and is considered one of the most modern refineries in Europe. The complexity of Motor Oil's refinery stands at 11.54 according to Nelson's Complexity Index.

It has the capacity to process various types of crude oil refinery allows MOTOR OIL to manufacture products with and manufactures a wide range of oil products. It supplies high added value, adjusting the final product mix to market commercial oil companies in Greece, but the bulk of its proneeds, ensuring better distribution prices and achieving better refining margins than other composite refineries in duction is sold abroad. Moreover, it is the only refinery that produces base oils in Greece. Refinery products meet the the Mediterranean region. European Union specifications, as well as the most stringent international standards. The technical sophistication of the



### **CHARACTERISTICS OF THE REFINERY**

- Processing capacity: 185,000 barrels of crude oil per stream day (BSD).
- The refinery produces all types of fuel and is one of the most advanced and complex in Europe, with Hydrocracker and Catalytic Cracking units and an 11.54 rating on the Nelson Complexity Index.
- It produces refined fuels (gasoline and automotive diesel) in accordance with the EU specifications.
- It has ISO 9001:2008 certification for Quality, ISO 14001:2004 and EMAS III ER 1221/2009 certification for the Environment, OHSAS 18001:2007 certification for Health and Safety, ISO 17025:2005 certification for its Chemical Labs and CE Marking certification for its asphalt products, in accordance with EU Regulation 305/2011 and the requirements of European standard EN 12591 2009. This is a combination of standards found in very few European refineries.
- It is the only refinery in Greece with a unit producing base oils and finished lubricants, approved by such international agencies as the American Petroleum Institute (API), the European Automobile Manufacturers Association (ACEA) and the United States Army and Navy.
- It possesses a power and steam cogeneration unit, which now has a capacity of 85MW following the recent addition of a fifth gas turbine.
- It uses natural gas as a fuel and as a raw material for the production of hydrogen.
- It has a storage capacity of 2,500,000 m<sup>3</sup> (Crude Oil: 1,000,000 m<sup>3</sup>, Intermediate & Finished Products: 1,500,000 m<sup>3</sup>).
- It has modern port facilities for tanker docking, suitable for tankers of up to 450,000 tons DWT, which can serve more than 3,000 vessels annually.
- It has a modern truck loading terminal, which can serve 220 road tankers per day.

The operation of a refinery requires auxiliary supplies of electric power, water and steam. The refinery's requirements in terms of electricity are met by the five gas turbines of the Power Cogeneration Plant, which make it energy selfsufficient. High-pressure steam is provided by the four steam-producing boilers, as well as the steam generated by certain units within the refinery. The sea water desalination units provide sufficient water of suitable quality to feed the boilers and fully meet the needs of the refinery.

The refinery is connected to the national natural gas network, allowing it to use natural gas as a raw material for the production of hydrogen and as a fuel for its thermal and energy needs. This grants it valuable flexibility in selecting the optimal mix of raw materials and fuels, while further improving the refinery's environmental performance.

Liquid waste is collected and treated in the Industrial Waste Water Treatment Plant and the Urban Liquid Waste Treatment Plant. The refinery has a modern Truck Loading Terminal, which significantly strengthens the competitive position of MOTOR OIL in the southern Greek market

# 3. RESULTS 2015

2015 was a great year for the refinery sector worldwide. The great sophistication of our refinery did, however, allow the Group to make continual adjustments to the crude supply mix in order to take advantage as effectively as possible of the circumstances.

Low prices internationally throughout 2015 led to increased demand for petroleum products in the Mediterranean basin and the broader area. Our refinery managed to get its crude high refinery margins throughout the year. The depreciation

oil supplies at competitive prices and especially favourable financial conditions. This meant that we achieved exceptionally

more than 45 countries (the main destinations being Egypt. in the value of the stocks had a negative impact on our results, which was however a lot smaller than that of 2014. Saudi Arabia, USA, Lebanon, Italy and Turkey) accounted In this context, the Group managed to achieve record sales for 76.07% of all sales, compared to 75.14% in 2014. Exports against, to slightly increase exports and to cut its net bank are beneficial to the company also on an operational level, allowing it to finance the purchase of crude oil at the current debt a little further, reaching its lower levels in fact since 2005. price levels, ensuring a continuous supply of raw material • It is highly important that MOTOR OIL product sales have to the refinery, remaining unaffected by the capital controls been rising steadily in recent years, reaching 12.85 million in Greece.

tons in 2015 - a new historic record. Its products are delivered to the three markets in which it operates (domestic market, exports and the shipping/aviation sector) through a powerful sales network and with the help of long-standing relationships with customers. The quantities supplied to each of these markets are determined by the relevant demand, but also by the company's aim of supplying its products to the markets that offer the highest margins. The sales figures show the company's steady export orientation, based on which foreign sales, including shipping/aviation sales, to

#### MOTOR OIL SALES BY MARKET (THOUSAND MT)

SHIPF

DOME

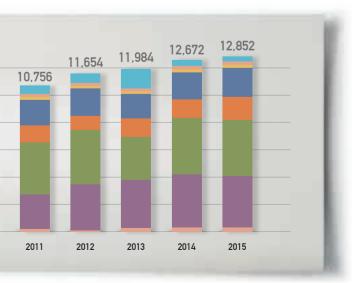
FORE PUBL

	12,000
	10,000
	8,000
	6,000
	4,000
	2,000
PING-AVIATION IGN MARKETS	0
IC POWER CORPORATION (PPC) STIC MARKET	

	MOTOR OIL SALES BY PRODUCT (THOUSAND MT)	12,000
		10,000
		8,000
		6.000
•	OTHER LUBRICANTS LPG	4,000
•	GASOLINE	2,000
•	AVIATION FUELS AUTOMOTIVE DIESEL – HEATING OIL FUEL OIL ASPHALT	0

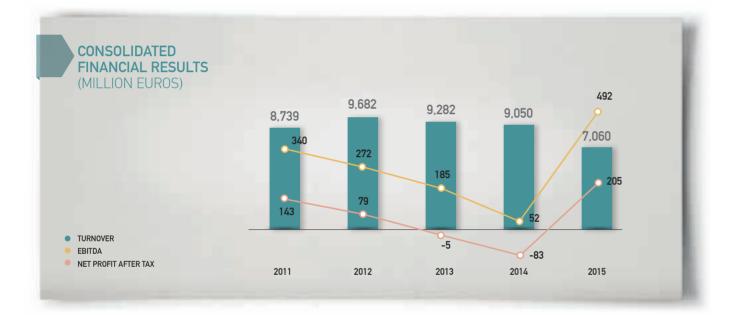






- The Group's turnover decreased by 22% in 2015 compared to 2014, standing at 7.06 billion euros. The fall in the average prices for petroleum products by 45% contributed to this decrease: to some extent this was countered by a 3.45% increase in the volume of sales and the appreciation of the US dollar against the euro by 16.48%.
- The Group's EBITDA was also substantial, amounting to 492 million euros in 2015, compared to 51.5 million euros in 2014, recording an increase of 855.74%. Similarly, the Group's net results after tax for 2015 reached 205 million euros compared to 83 million of losses in 2014, recording a 345.87% increase. These results were the product of

very high refining margins during the course of the year. in combination with the appreciation in the value of the US dollar against the euro. These good results were further reinforced by the positive contribution of the retail subsidiaries which benefited from the strong tourism period and were not operationally affected by the capital controls.



• MOTOR OIL's share in the domestic market has been steadily on the rise in the past years, with a small drop in 2015 reaching 32.6%. Overall, the very good shares are due to the efficiency of the AVIN OIL and Coral retail networks, with the 2015 drop caused by the decreased sales of fuel oil to industry, which of course have a very small profit margin.

MOTOR OIL'S DOMESTIC MARKET SHARE					
	2011	2012	2013	2014	2015
Fuels	32.0%	35.0%	37.5%	37.9%	35.1%
Shipping/Aviation	23.2%	25.2%	25.7%	28.7%	26.2%
Lubricants	34.8%	46.9%	36.8%	40.4%	36.8%
TOTAL DOMESTIC MARKET	29.5%	32.1%	33.9%	35.3%	32.6%

# **4. CORPORATE GOVERNANCE**

The management and control the MOTOR OIL Group of companies is based on contemporary principles of good corporate governance, as prescribed by legislation and the relevant regulations, and by other international codes of best practice and auditing standards. Corporate governance runs through the daily operations of the Group on issues such as: • the appropriate structure of its Board of Directors,

- respect for, equal treatment and protection of the interests and the rights of all shareholders,
- compliance with legal and regulatory provisions.
- transparency in decision-making procedures,
- the reliability and adequacy of all disseminated information, regarding the Group's strategy and financial results, or its financial transactions.
- the management of personnel and remuneration matters, and
- the identification, assessment and control of all inherent risks.

The company has its own Code of Corporate Governance is elected by the Annual General Meeting of Shareholders (CCG), prepared and approved by the Board of Directors. and which represents a broad range of knowledge, experi-It sets out the framework for the basic operating areas of ence and qualifications, tailored to match the objectives of the company, as well as the best practices in corporate the company while ensuring, as far as possible, a numerical governance which it has adopted. The Code is revised as balance between executive and non-executive directors. appropriate (amendment of articles of association, change in organizational chart, etc.) and is always available in its current form on the company website. The company's most senior decision-taking body is the Board of Directors, which

Composition of Board of Directors		
NAME	BOARD POSITION	MEMBER IDENTITY*
Vardis J. Vardinoyannis	Chairman and Managing Director	Executive
Ioannis V. Vardinoyannis	Vice Chairman	Executive
Ioannis Kosmadakis	Deputy Managing Director	Executive
Petros Tzannetakis	Deputy Managing Director	Executive
Nikos Th. Vardinoyannis	Member	Non-executive
George Alexandridis	Member	Non-executive
Theofanis Voutsaras	Member	Executive
Michael Steiakakis	Member	Executive
Niki Stoufi	Member	Non-executive
Anastasios Triantafyllidis	Member	Non-executive/ Independent
Antonios Theoharis	Member	Non-executive/ Independent

\* In accordance with Law 3016/2002



Two committees, established in 1996 and each made up of three members, operate within the framework of the Board of Directors: the Compensation Committee and the Audit Committee. Both are chaired by the non-executive director Mr. G. Alexandridis, and on each committee the other two members are the non-executive and independent directors of Mr. A. Triantafyllidis and Mr. A. Theoharis.

The Compensation Committee advises the Board of Directors within the competences assigned to it by the latter. It deals with staffing issues and recommends policies on salaries, benefits and incentives for management and staff, also overseeing implementation of the said policies. The members of the Audit Committee are recommended

by the BoD and elected by the Annual General Meeting of Shareholders, in accordance with the provisions of Law 3693/2008, and all have substantial knowledge and experience in matters relating to finance, accounting and auditing.

The Audit Committee is of considerable assistance to the Board of Directors in performing its duties, acting as recipient of all reports on audits carried out by the company's Internal Audit Department. The legal auditor or auditor's office reports to the Committee on all matters relating to the progress and results of the regular mandatory audit, submitting a special report on any weaknesses in the internal audit system, particularly any shortcomings found in procedures relating to the provision of financial information and the compilation of financial statements.

Since 1990 the company has had its own Internal Audit Department, which reports directly to the Board of Directors and is overseen by the Audit Committee. The company's independent internal audit system aims at ensuring compliance with the company's procedures for managing financial and operational matters, as well as ensuring that issues related to the efficient management of business risks are given proper attention.

Lastly, the company's financial statements are also audited by independent chartered auditors, in compliance with its statutory obligations.

#### CONTROL AND RISK MANAGEMENT SYSTEMS

In respect of the operation of the company's Internal Control and Risk Management - ICRM - Systems, in relation to the procedure for compiling financial statements, we should state that the MOTOR OIL financial reports system uses a sophisticated software package to produce reports to the administration and to external users.

Financial statements and other analyses are submitted to the administration on a monthly basis, and compiled in simple and consolidated form, in accordance with the International Financial Reporting Standards, for submission to the administration or for general publication, under the current regulations, on a quarterly basis. Both reports submitted to the administration and financial information released to the public, contain all the necessary information expected from an updated internal audit system, featuring analyses of sales, costs and spending, operating profits and other details.

All reports to the administration contain details for the current period, for purposes of comparison with the corresponding figures in the budget, as approved by the Board of Directors, and with the figures for the same period in the previous year. All published interim and annual financial statements are compiled in accordance with the International Financial Reporting Standards, contain all necessary information and opinions on the financial statements, are reviewed by the Audit Committee and approved in their entirety by the Board of Directors.

## 5. PARTICIPATION IN INTERNATIONAL - NATIONAL AGENCIES AND NETWORKS

MOTOR OIL and the Group's other companies support and maintain lasting relationships with international and national bodies, and are members of:

- The Global Compact Network Hellas.
- The Hellenic Network for Corporate Social Responsibility.
- The Hellenic Federation of Enterprises.
- The Athens Chamber of Commerce and Industry, the Hellenic-American and Arab-Hellenic Chambers, as well as other regional Chambers.
- The Hellenic Association of Independent Power Producers.
- The Union of Listed Companies, etc.

MOTOR OIL also participates in the following organisations:

- CONCAWE (CONservation of Clean Air and Water in Europe), which provides technical support to European refineries on Health, Safety and Environmental Protection issues.
- Oil Companies International Marine Forum (OCIMF), which is an association of petroleum companies with an interest in promoting the safe and environmentally friendly marine transportation of crude oil and petroleum products.
- Mediterranean Oil Industry Group (MOIG), which is an oil industry forum on issues relating to prevention and timely response to marine pollution, intended to coordinate the industry in the event of major oil spill incidents in the Mediterranean Sea.

Moreover, we support the academic community in research exploring refining industry issues relating to health, safety and environmental protection. In this context, MOTOR OIL:

- Continues to cooperate with the Applied Geochemistry Laboratory of the Geology Department, Patras University, for the determination of chemical conditions prevailing in the refinery's coastal zone.
- Cooperates with the Technical University of Crete in the context of the European PROTEAS programme, which has been set up to develop a protocol of best practices in order to prevent environmental impact and accidental leaks at all stages of the transportation and movement of petroleum products and other hazardous substances.
- Cooperates with the research agencies National Technical University (NTUA), National Centre for Research and Technological Development (EKETA), University of Thessaly and University of Athens (UoA) in implementation of the SIMPLE project. The SIMPLE project has been set up to design an integrated process for production of bio-ethanol from lignocellulosic materials, residues from cultivation of maize, cotton and wheat, as well as plants cultivated as energy sources, which will be economically and environmentally sustainable.
- Cooperates with the research agencies Aristotle University of Thessaloniki (AUTh), the National Centre for Research and Technological Development (EKETA) and AVIN OIL in implementation of the HYDROSOL-PLUS project, which was set up to create a viable method to store solar energy, to be used in the generation of solar synthesis gas and renewable carbon-neutral solar fuels.



- Cooperates with the National Centre for Research and Technological Development and the YPSILON Company in implementing the JONAH-FUEL project, whose aim is the determination of varieties of castor oil plant suitable for growing, and also the collection of data to facilitate the growing of even better varieties. The project focuses on the search for and exploitation of possible uses of castor oil and castor bean residue in the production of fuels.
- Cooperates with the National Centre for Research and Technological Development and the Aristotle University of Thessaloniki, the Turin Polytechnic and the Italian companies BIOCHEMTEX SPA and HYSYTECH SRL in implementation of the CARDIOSOL project. The objective of the CARDIOSOL project is the use of CO<sub>2</sub> as a primary material and its conversion into bio-generated syngas for further transformation into final products, such as bio-fuels, using renewable sources of energy (solar) and biogas originating from fragmented residue of bio-mass, thereby reducing greenhouse gas emissions. MOTOR OIL, AVIN OIL and CORAL are participating in the project as associated partners.
- Cooperates with the National Centre for Research and Technological Development, Alicante University, Utrecht University, the University of Ghent, the National Inter-University Consortium of Science and Materials Technology and the company PROCESSI INNOVATIVI in implementation of the European WAVES project. The purpose of the WAVES project is to explore new heterogeneous catalysis technologies for production of bio-fuels (aviation and diesel) from organic waste (plant oils, candle wax, seaweed, etc.) through the development of new and selective catalysts. MOTOR OIL, AVIN OIL and CORAL are participating in the project as associated partners.

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# 6. AWARDS AND RECOGNITION

The Group's companies have received significant recognition for their work and activities from the international and national business communities. The distinctions awarded them underline the superb quality of their products and services, and highlight the importance attached by the Group to effective meeting of social needs.

CHRIMA Business Awards	2 <sup>nd</sup> prize in "Investment Relations" category. 2 <sup>nd</sup> prize of best company FTSE Large Cap.
Joint Inspection Group	OFC was awarded for the eighth consecutive year with the JIG "Certificate of Excellence".
World LPG Association	The new Coral Gas small canister with an ILL safety valve, was chosen among the 10 most innovative applications in the liquefied gas sector globally.
Safety Awards	Coral won 1 <sup>st</sup> prize in the Petroleum product category for the integrated Health and Safety management system it implements. Coral won the Gold Prize in the Safety in work campaign category for the Bus Rides program it implements in service stations across the country. AVIN won the Gold Prize in the Reducing Risk in Road Transport category, for the integrated plan it implements in relation to road transport. Coral Gas received the Gold Prize in the Safety Culture category for the integrated plan it implements in creating a culture of safety among all its employees.

# 7. MANAGING CORPORATE RESPONSIBILITY

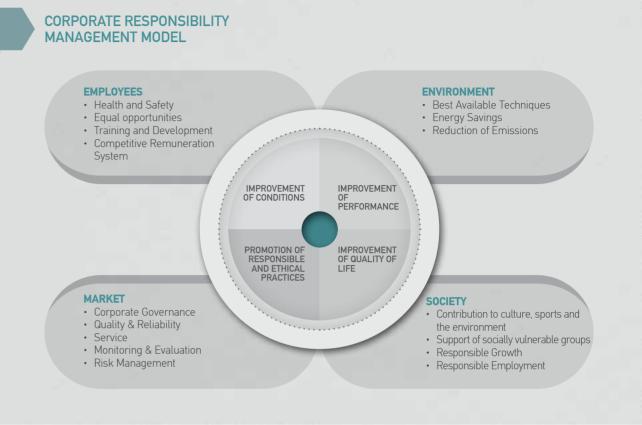
The MOTOR OIL Group is engaged in the energy sector, mainly in the oil sector, which is an area requiring special respect for and compliance with the principles of Corporate Social Responsibility and sustainable growth. This is because crude oil, from extraction and transportation to refining and use of refined products, has environmental effects that must be effectively managed, utilising available technology.

In implementing the principles of corporate responsibility, we seek:

- to achieve a balanced approach to the economic, social and environmental impact of the Group's operations,
- to create value for our shareholders, while also serving the interests of other stakeholders.
- to show concern for our employees and for society at large.

We fully acknowledge the importance of these issues and demonstrate our corporate responsibility by our commitment to pursuing our business activities with due respect for people, the environment and society. MOTOR OIL has adopted a Corporate Responsibility Management Model that incorporates the four sectors of action inspired by the UN Global Compact and the internationally accepted Global Reporting Initiative (GRI)

# MANAGEMENT MODEL



#### MOTOR OIL: WITH RESPONSIBILITY TOWARDS ITS EMPLOYEES,

cultural life, and becomes involved in similar activities that adopts the four principles: attract, identify, develop, retain, in order to develop its human resources, by investing in benefit society as a whole. their training, and providing a workplace environment that is characterized by good team-work, mutual respect and is WITH RESPONSIBILITY TOWARDS THE MARKET, conducive to individual initiative. In such a workplace, Health respects market rules and produces top quality products; it and Safety constitute a major priority which is assured focuses on relations of trust with its customers, suppliers and through state of- the-art infrastructure and contemporary partners, and strives - through the systematic and consistent management practices. achievement of its business targets - to ensure the best possible return for its shareholders without compromising its principles of corporate responsibility and sustainable strives to ensure that its activities have the minimum possible development.

#### WITH RESPONSIBILITY TOWARDS THE ENVIRONMENT.

impact on the environment, by having in place an effective Environmental Management System and implementing Best Available Techniques, as well as the most advanced systems for environmental protection, energy management and energy saving.

#### WITH RESPONSIBILITY TOWARDS SOCIETY,

pursues constructive social dialogue with the local communities in which it mainly operates, in a climate of mutual trust and respect. It supports these communities by participating in programmes that enhance their economic, social and





**01** IDENTITY AND CORPORATE RESPONSIBILITY

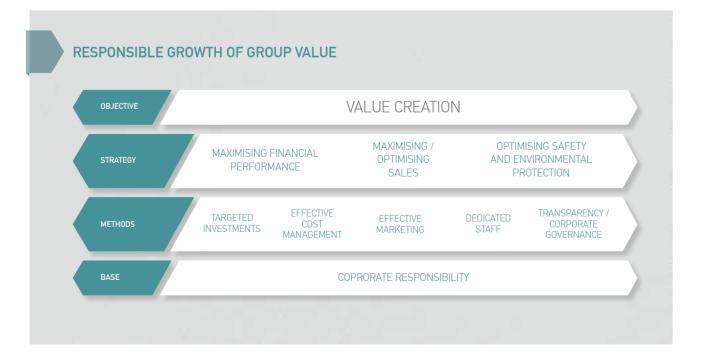
### REPONSIBLE MANAGEMENT OF THE SUPPLY CHAIN

A key element in our corporate responsibility is the proper management of our supply chain, aware as we are that a sustainable supply chain not only reduces social and environmental risks but can also enhance values and success on the business and social levels. We thus carry out detailed evaluation of our potential suppliers, on the basis not only of their economic viability but also of qualitative and environmental criteria. Would-be suppliers are asked to complete questionnaires detailing their ability to safeguard the quality of the products and services they aim to provide, as well the environmental impact of their activities and the health and safety systems they employ.

In respect of the contractors we employ at the refinery and our other installations, we follow a comprehensive programme of safety training, the objective always being to achieve GOAL ZERO, i.e. zero accidents. We indicatively mention that in 2015 we carried out 4,124 hours of safety training for contractors' employees. Detailed evaluation and training programs are also implemented for the tanker truck companies which meet our land transport needs. We are aware that every day dozens of tanker trucks are travelling the roads on our behalf, and are committed to minimizing the risks inherent in road transport. For this reason, we have developed very detailed programmes in which transporters are assessed and given rigorous improvement targets; if they fail to meet them, their contracts are not renewed. As a result of this ground-breaking programme, by the end of 2015 the tankers we use had travelled a total of 19,000,000 km without a single accident.

# 8. RESPONSIBLE GROWTH AND INVESTMENTS

Responsible growth and creation of value for the benefit of all stakeholders is at the core of MOTOR OIL Group's business model. We therefore adopt an ongoing and targeted investment program allowing the attainment of a good operating performance in all sectors, with substantial financial results as the final outcome.



Our vision is the consolidation of MOTOR OIL's position as a leading refining and oil products marketing company in the broader region in which we operate. In order to succeed in this objective, we implement a consistent and flexible business strategy, which is focused on the following three key targets: equipment. In order to succeed a complete date of the succeed investments for MOTOR OIL concerning both organic growth and acquisitions. The company has now entered a period of

- Maximization of financial returns and profit margins of refinery.
- Maximisation and optimisation of sales, by effectively marketing the refinery products and exploiting opportunities in our three available markets (domestic, aviation/shipping, and exports), for achieving the best possible profitability.
- Striving for the highest standards of Health and Safety, Environmental Protection and Quality, through the application of technical, operational and organizational adaptations.

# 1,477 MILLION EUROS TOTAL INVESTMENTS AND 767 MILLION EUROS FOR ENVIRONMENTAL PROTECTION PROJECTS OVER THE PERIOD 2000-2015

Total investment expenditures by the Group in the period 2000-2015 have amounted to 1.477 million euros, not including capital used for acquisitions. The Group's investment expenditures in 2015 amounted to 42.4 million euros, and involved, in relation to the refinery, replacement and maintenance of existing

# 9. RESPONSIBILITY FOR THE ENVIRONMENT, HEALTH AND SAFETY

Ensuring occupational health and safety and environmental protection is part of our corporate Principles and Values and constitutes a fundamental strategic aim. Thus, we strive to conduct our operations without compromising the health and safety of our employees and associates, while maintaining the highest standards of environmental protection and respecting the quality of life of those living in the vicinity of our industrial facilities.

The importance we attach to the management of health, safety and environmental protection, and our commitment to continuous improvement in these areas, is set out in the relevant policy that governs the operation of the Environmental Management System (ISO 14001:2004 compliant, the first such certification dating back to 2000, and EMAS III ER 1221/2009

Over the last decade we have completed a series of substantial investments for MOTOR OIL concerning both organic growth and acquisitions. The company has now entered a period of maturing investments and optimization of their exploitation. At the same time, 5 years after the purchase of Shell operations in Greece, a significant increase in our domestic market share is clear to see, demonstrating the increased efficiency of the Coral and AVIN OIL networks, as well as that of Cyclon which was fully bought out by MOTOR OIL in late 2014.

Our most recent major investment, the construction of the new Crude Distillation Unit - completed in 2010 and which cost, together with the peripheral units, a total of 200 million euros - has strengthened our competitive position and improved our profitability, having now been on-line for more than five full years.

Moreover, our largest investment in the last decade has been the installation of the hydrocracker complex (2005), which made possible generation of clean fuels to meet European Union specifications.

The rest of our investment programme has been designed to upgrade the technological capacity and efficiency of the refinery, and to introduce vertical integration, automation, energy autonomy and environmental protection. The result has been that the refinery is now regarded as one of the most efficient and sophisticated installations of its kind anywhere in the world.

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## HEALTH, SAFETY AND ENVIRONMENTAL PROTECTION POLICY

MOTOR OIL operates with due respect for Health, Safety and the Environment.

To achieve this, the company is committed to:

- Setting targets and aims compatible with the continuous improvement of its Health, Safety and Environmental management systems.
- · Complying with, or exceeding, the requirements of relevant legislation or other obligations.
- Producing guaranteed quality products in accordance with, or exceeding, Health and Environmental Protection specifications applicable to each, efficiently making use of raw materials, energy and technology.
- Reporting its performance, good or bad, as a responsible corporate citizen.
- Maintaining emergency action plans and systems which are regularly rehearsed with the appropriate drills.
- Applying a coherent Integrated Management System that takes Health, Safety and Environmental Protection factors into consideration when business decisions or plans are being prepared, and in the operation of its facilities.
- Offering advice, information and training to its own employees and to subcontractors and others working on its behalf, so as to ensure their commitment to and raised awareness of safe working practices.
- Actively and uncompromisingly complying with environmental operating standards that set limits on waste and polluting emissions.
- Cooperating with all stakeholders in developing and applying balanced Health, Safety and Environmental Protection programmes that take into account the needs of all parties involved.

# **10. RESPONSIBLE QUALITY MANAGEMENT**

Our commitment to quality is a fundamental element of our strategy. Our quality policy is summed up in two key principles, to which both management and employees are fully committed:

- MOTOR OIL will produce and sell products that satisfy its customers, always taking into consideration all stakeholders' interests.
- MOTOR OIL focuses on its customers, examines and evaluates their requirements and applies all necessary technologies and actions, aiming at avoiding compromises in quality matters and constantly improving the effectiveness of its Quality Management System.

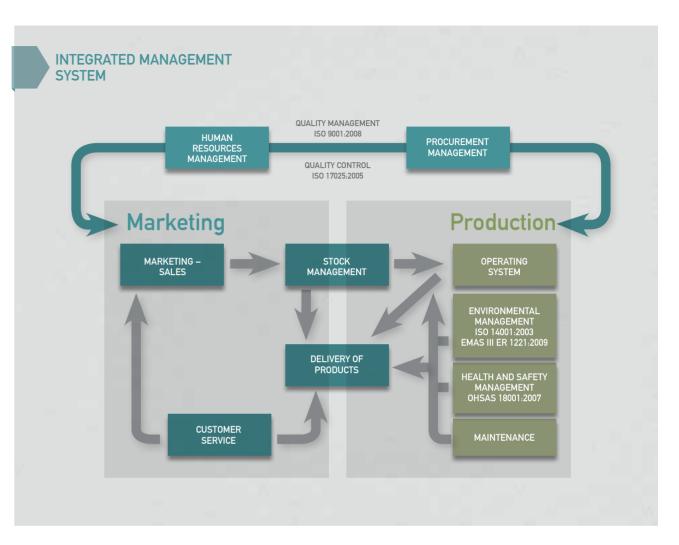
The Integrated Management System, used to implement our quality policy, is oriented to the customer and his needs, covering systematically all operational and organizational processes relating to quality. The System was re-certified in 2014 by Bureau Veritas, in accordance with standard ISO 9001:2008, valid until 2017, while the first relevant certification dates back to 1993.

The consolidation of the Environmental Management System and the Health and Safety Management System into the Integrated Management System confers the necessary internal coherence and links these management systems with other

related processes which affect them, thus maximising their effectiveness.

The Quality Control process meets the requirements of the ISO 17025:2005 standard, and the Hellenic Accreditation System (HAC) has certified the refinery's Chemical Laboratory as capable of conducting tests in accordance with requirements of the standard, and issuing Quality Certificates endorsed by HAC for virtually all the company's products. This certification offers us an additional competitive advantage, ensuring that of our products is guaranteed. The refinery has also been awarded CE Marking in accordance with standard EN 12591 for asphalt products, the certification remaining valid until 2017. All management systems are subject to bi-annual or annual audits by certification bodies in order to confirm their consistent operation, and are re-certified every three years.

The appropriate development of these management systems is realised by achieving certification for their updated versions. In addition, audits by customers and insurance organisations are carried out with excellent results.



# CERTIFIED MANAGEMENT SYSTEMS OF THE GROUP'S SUBSIDIARY COMPANIES

- AVIN OIL operates a Quality Management System certified according to ISO 9001:2008 covering fuels and lubricants storage, marketing and distribution, and retail network management.
- Coral has been certified across all its activities since 2012. Specifically, ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 certifications were secured for Coral's procedures for taking delivery, storage, mixing, loading, transportation and delivery to customers of various fuels products, lubricants and chemicals.
- Coral Gas operates an Environmental Management System, with ISO 14001:2004 certification, and a Health and Safety Management System with OHSAS 18001:2007 certification, for all its facilities and ISO 9001:2008 certification for its Quality Management System.
- OFC has a Quality Management System, certified to standard ISO 9001:2008, an Environmental Management System certified under ISO 14001:2004 and a Health and Safety



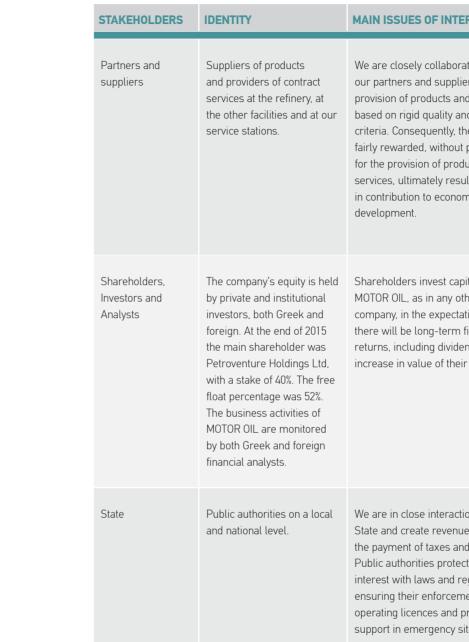
Management System certified under OHSAS 18001:2007. These certifications relate to the main activity of the company which is the delivery, storage and distribution of aviation fuel, as well as the provision of technical consultancy services and training in aspects of the refuelling of aircraft. In 2013, a Fire Safety recertification was granted for the next five years.

 LPC has a Quality Management System in place, certified to standard ISO 9001:2008 for the design, production, sale and distribution of base lubricants, antifreeze, greases and chemical products and to EMAS (EL 00051) and ISO 14001:2004 for the waste lubricant oil regeneration procedure.

# **11. COMMUNICATION WITH STAKEHOLDERS**

We recognize that our business operations and decisions affect - and are affected by – various groups of stakeholders. The long-standing communication and cooperation we have developed with stakeholders indicates the importance we attach to this issue, and our desire to openly discuss that any arising issues can be handled in mutually acceptable ways. Direct stakeholders and, in summary, their interaction with the Group companies, as well as the communication approach applied to each of them, are shown in the following table:

STAKEHOLDERS	IDENTITY	MAIN ISSUES OF INTERACTION	COMMUNICATION APPROACH
Employees	1,924 direct employees, with about 51% of them working in the refinery (see Chapter 2).	Employees offer their labour, knowledge and experience in return for a safe working environment, competitive and fair salaries and additional benefits as well as opportunities for professional advancement and personal development.	Ongoing, two-way communication between employees and management through corporate announcements, briefings, intranet, working groups and various events. The refinery employees are represented by their Trade Union and the Health and Safety Committee. Official dialogue is regularly conducted; employees are also encouraged to submit their individual proposals for improvements in working conditions.
Customers	The refinery, due to the nature of its activity, has relatively few customers. The Group's commercial companies have an exten- sive network of customers, from industrial facilities and commercial companies to final consumers.	The refinery is in continuous communication with its customers in order to satisfy their require- ments and provide high quality products, and is duly rewarded with the income it receives. The Group's commercial companies place customer service at the very heart of their strategy, offering them products and services of the highest quality.	Long-standing and close relationships with our customers, based on the quality of our products, the service we offer, our experience, and our reliability. We main- tain ongoing communication with refinery customers, and once a year conduct a satisfaction survey. In the commercial companies, the customer service depart- ments and staff of our service stations are the public face of the company. We organize mystery shopping programmes for all our service stations and market surveys.
Local communities	Our industrial activities impact local communities in the vicinity of the refinery (Ag. Theodoroi, Corinth) and the facilities of the commer- cial companies (Perama, Ka- lohori Thessaloniki, Kavala, Hania, Alexandroupoli).	We closely collaborate with the local and regional communities, whose key concern is the creation of jobs and the return of the so- called social product through the company's social contribution.	Continuous communication and inter- action with local communities through local councils and other agencies such as private associations and organizations (see Chapter 5). Our sustained commitment and ongoing communication allow us to listen to the local community's needs and respond promptly and meaningfully.





OF INTERACTION	COMMUNICATION APPROACH
y collaborating with ind suppliers for the roducts and services quality and safety inquently, they are d, without problems, on of products and nately resulting to economic	We have long-standing and close relationships with our partners and suppliers. There is a structured communication and training programme at the refinery, as well as all of our facilities, offering them appropriate information on health, safety and environmental protection issues, for which compliance requirements are exceptionally strict and closely monitored (see Chapters 1 and 3).
invest capital in s in any other he expectation that ong-term financial ling dividends and an lue of their shares.	The company operates a Shareholder Services Department. Regular communication with shareholders is conducted in various ways: roadshows 7-8 times a year; an Annual Analysts' Briefing once a year; 4 quarterly teleconferences with financial analysts; on the company website; press releases and announcements; the Annual Financial Report, the Sustainability Report, and regular attendance at investment conferences.
e interaction with the ate revenues through f taxes and duties. ties protect the public aws and regulations, enforcement, issuing nees and providing ergency situations.	We always operate within the confines of the law. There is an open and honest, two- way communication and cooperation with competent Public Authorities, ensuring the supply of information required by each body, as well as documented discussion on any issues arising.

# RESPONSIBILITY TOWARDS OUR EMPLOYEES

1,924 EMPLOYEES AT GROUP LEVEL

**27,000** TRAINING HOURS IN 2015

**300** RECRUITMENTS IN THE FIVE YEARS 2011-2015

# At the MOTOR OIL Group we believe that our value is generated by our employees.

We recognise that they are our most valuable resource, essential to the achievement of our strategic goals, to the successful implementation of our growth business plans and in ensuring our long-term competitiveness. That is why we have established an organised and modern Human Resources Division for the entire MOTOR OIL Group aimed at identifying, attracting, developing and retaining qualified employees and executives who can be utilised by all the companies.

We aim to provide a safe and fair workplace, which promotes trust, team spirit and respect for people, along with effectiveness.

We are committed to providing the best working conditions, securing respect for human rights and for the freedom of association, upholding non-discrimination and providing equal opportunities for learning and personal development.

During 2015, the MOTOR OIL Group had an average workforce of 1,924 employees.

In the midst of the profound economic and social crisis afflicting our country, we continued to renew our workforce through 300 recruitments over the last five years, offering an extended training programme and continuing the provision to our employees of a structured discretionary benefits package.

# 1. HUMAN RESOURCES MANAGEMENT SYSTEM

MOTOR OIL Group has grown significantly over the last few years and has adopted a contemporary, fully integrated Human Resources Management System. The System is designed to allow proper management of the Group's human resources. with ongoing development and advancement of individual employees. This system is founded on the principles and values of the Group and defined by its vision and strategic objectives.

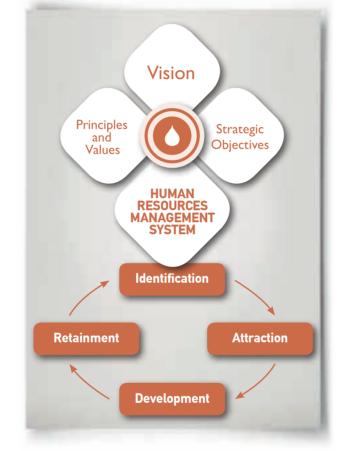
The purpose of the Human Resources Management System is to identify and attract the most talented executives on the market, develop them and retain them within the Group.

All of the above are implemented by the Group's HR Division within the following framework:

- Compliance with applicable legislation, and universally established principles of human and labour rights.
- Fairness and meritocracy in employee relations.

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- Attracting competent young people having a professional approach to work, who share our values: reliability, dedication, integrity and personal responsibility.
- Providing equal opportunities and possibilities for the professional and personal development of employees.
- A competitive and fair remuneration system linked to employee performance and consistent with prevailing market conditions.
- Offering pay and benefits exceeding those provided for by law and by collective labour agreements.
- A programme of targeted education and training, covering subjects relevant to the Group's strategic development goals, and aiming at the effective and safe discharge of duties.
- Fostering corporate culture and corporate values.



# 2. EQUAL OPPORTUNITIES AND HUMAN RIGHTS

All aspects of human resources management are pursued with transparency and are based on meritocracy. We offer a workplace of no exclusions, in which all are treated fairly and are offered equality of opportunity, and where diversity is valued. Recruitment, transfers, promotions, benefits, education and training, etc., are governed by the principles of our equal opportunities policy, the avoidance of any form of discrimination, and respect for employees' dignity.

In applying the equal opportunities policy, we have ensured:

- That the composition of management almost reflects the composition of the workforce.
- That education and training programmes are available to all personnel, in accordance with business needs.
- Equal pay for men and women.

We support attempts to build a society free of exclusion, in which persons with disabilities can be productively integrated into the community. We ourselves employ 18 people with disabilities, who enjoy equal opportunities in employment and education.

territory, where the legislative framework is consistent with MOTOR OIL fully respects international principles of human the requirements of the 1998 Declaration of the International rights, in particular those set out in the United Nations Declaration of Human Rights, and in the UN Global Compact's Labour Organisation (ILO) on Fundamental Principles ten principles, to which we are signatories. The Group is and Rights at Work, to which reference is made in the opposed to any practice which might encourage the imposition Constitution and in labour law. The Greek legal provisions of any form of forced or child labour. It complies fully with include conventions concerning the protection of freedom national legislation on child labour; there are no instances of association and the right to collective bargaining. of forced or child labour anywhere in the Group's activities, nor would they be acceptable. It should be noted that all MOTOR OIL's activities take place exclusively on Greek

# **3. LABOUR RELATIONS - RELATIONS WITH TRADE UNIONS**

At MOTOR OIL, the terms and conditions of employment are regulated by a Collective Labour Agreement, which was drawn up in September 1974, and is approved by the Labour Ministry.

As is made clear by the recent materiality analysis described Since 2006, there has been a Company Collective Labour at the end of the Report, it is extremely important to our Agreement between the company and the union, which is Group – and particularly to the refinery due to the complex renewed every year and is then submitted to the Corinth nature of the work it entails – that employees can join unions Labor Inspection. and professional associations freely and without restraint. Refinery employees are represented through their trade We believe that smooth cooperation between the Company and union and the Health and Safety Committee. Formed in the employees' union is extremely important - particularly so 1975, the refinery employee trade union celebrated its 40<sup>th</sup> in difficult times like the present, when we are experiencing anniversary this year. the effects of the severe economic crisis. We, therefore, hold

The union has had a Collective Labour Agreement with the Hellenic Federation of Enterprises since 1986. This agreement lays down the terms of employment and pay levels at the refinery.

# **4 BASIC FMPI OYMENT DATA**

In 2015, the size of the combined human resources of the Group (MOTOR OIL, AVIN OIL, Coral, Coral Gas, OFC and LPC) - averaged over the year - was 1,924 employees.

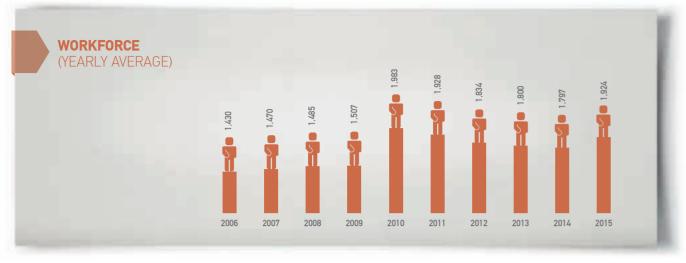
of the Group, a significant number are indirectly employed This year's figures were slightly up on preceding years due to the absorption of LPC (former Cyclon), while the 2010 through sub-contractors. figures were up significantly on preceding years, because Coral and Coral Gas employees were included in the Group's 96.4% OF GROUP EMPLOYEES workforce, following completion of the acquisition of these two companies.

In addition to personnel directly employed by the companies



regular meetings with union representatives, the common aim being to ensure harmonious bilateral relations, avoid disputes and preserve labour peace, while continuing to achieve improvements in working conditions.

# AT THE END OF 2015 WERE ON **OPEN-ENDED CONTRACTS**



MOTOR OIL's main area of activity is the refinery at Agioi Theodoroi, Corinth, where in 2015 an average of 994 persons were employed. Approximately 55% of the refinery personnel live in the greater region of Corinth, where MOTOR OIL is the biggest employer.

#### **GENDER PROFILE**

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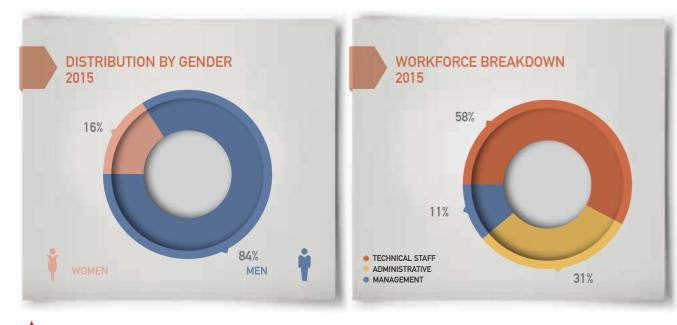
We support equal treatment for men and women, with equal opportunities for all, without discrimination. However, owing to the nature of the work and the skills required at our refinery, the percentage of women employees is relatively low. Thus, in 2015, on average, 16% of all employees were female, while at the Group Head Offices, the number of women rises to 37.7%.

satisfactory reflection of the overall participation of women in the total workforce, while in other office and technical jobs the percentage was 16%.

#### WORKFORCE BREAKDOWN AND PROFESSIONAL ADVANCEMENT

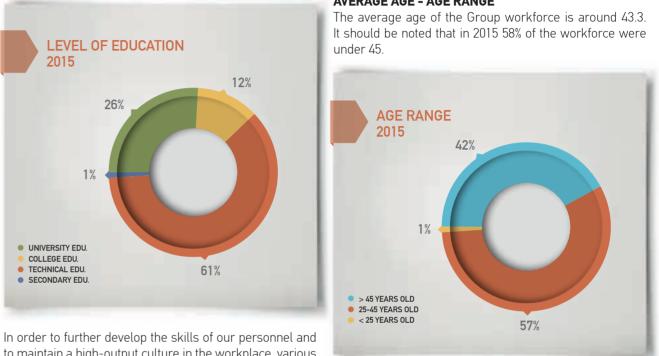
In 2015, management comprised 11% of the total personnel of the Group, while technicians-operators and administrative personnel accounted for 89% of the total number of employees.

Each employee has the opportunity for promotion within the management hierarchy, according to his qualifications, performance and skills, as the main objective is to fill vacant Among management, women made up 14% of the total, a managerial positions from within the Group wherever and whenever possible. In fact, each vacancy is first advertised internally; the position is opened to external applicants only if no suitable internal candidate can be found



#### LEVEL OF EDUCATION

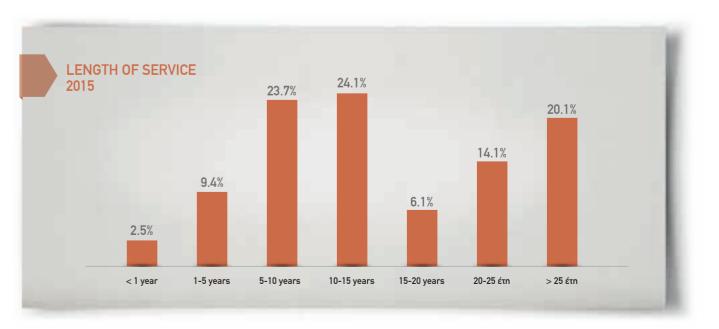
We attach great importance to the educational level of our personnel, and our aim is to attract, develop and retain suitable and competent employees. All of the employees hired for executive positions in 2015 were university graduates.



to maintain a high-output culture in the workplace, various

#### LENGTH OF EMPLOYMENT AND TURNOVER OF EMPLOYEES

Length of employment with the Group was, on average, 15.3 years in 2015, which represents a low rate of turnover. 64.4% of employees have been with the Group over ten years, while only 11.9% have less than five years of service.



OTOR OIL (HELLAS)

further education and vocational training programmes are organised in new technologies and systems, while employees are encouraged to participate in long-term external courses leading to recognized degrees.

#### **AVERAGE AGE - AGE RANGE**

These figures indicate a healthy balance in the service profile of our personnel, combining the experience of older employees with the renewal and dynamism brought by more recent recruits. The low level of turnover of employees in 2015, which was 2.4%, is a reflection of the reciprocal confidence between staff and management, and the commitment and level of job satisfaction of our employees - representing one of our main competitive advantages.

Long-term employment at MOTOR OIL is rewarded by additional salary increments. In addition - at the refinery, at Coral and at Coral Gas - commemorative gifts of value are made to employees completing periods of long service; these gifts vary from company to company and are commensurate with the years of service.

In 2015, the permanent staff increased by 76 new employees while 46 persons left for various reasons.

We ascribe great importance to attracting and hiring new management executives. In the last two years, we have embarked upon new collaborations with top universities around the world, through which we seek to attract new candidates. These candidates are assessed through a thorough and detailed process that includes behaviour and skills measuring tools, in-depth interviews and a final selection panel

STAFF	MOBI	LITY*
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	2011	2012	2013	2014	2015
RECRUITMENTS	75	70	53	26	76
STAFF DEPARTURES (CLASSIFIED BY REASO	N)				
RETIREMENT	46	75	28	29	20
RESIGNATION	20	17	11	15	9
VARIOUS	14	15	11	12	17
TOTAL	80	107	50	56	46
STAFF MOBILITY *	4.1%	5.8%	2.8%	3.1%	2.4%

STAFF DEPARTURES \*STAFF MOBILITY

-X100 AVERAGE NUMBER OF EMPLOYEES

# **5. REMUNERATION SYSTEM AND ADDITIONAL BENEFITS**

One of the Group's main objectives is to offer its employees competitive remuneration, both to reward their contribution and to maintain a high level of employee satisfaction.

# **120** MILLION EUROS TOTAL **WORKFORCE REMUNERATION EXPENDITURE IN 2015**

The system we implement in order to set, manage and review salary levels is in line with current company and sector-specific agreements, and is consistent and transparent. Negotiations covering collective agreements on salary adjustments are in line with sector practices that are applied at national level. Moreover, the structure of the remuneration system ensures equal pay for men and women doing the same work, and rules out any other form of discrimination.

TOR OIL (HELLAS)

The factors determining wage/salary levels are mainly the employee's grade and performance, the responsibilities and accountabilities of the position held, the educational level and the seniority/ length of service.

The Group's total expenditure on wages/salaries in 2015 amounted to 120 million euros. This includes pay for regular and overtime work, mandatory employer contributions to social security funds and other additional allowances over and above those laid down in either labour legislation or collective agreements. These additional, non-statutory allowances are discretionary payments to employees intended to reward productivity and acknowledge the contribution of individuals to the Group's performance.



#### ADDITIONAL DISCRETIONARY BENEFITS

The Group introduced many years ago a wide range of supplementary, discretionary allowances and insurance benefits for employees and their family dependants. These discretionary employee allowances cover five main areas:

## SPORTS ACTIVITIES FOR STAFF

To promote and improve team spirit and employee involvement, we encourage their participation in various sporting activities.

#### ATHENS CLASSIC MARATHON

biggest athletic event in Greece - the 33rd Athens Classic Marathon, which took place on 8 November. To help the entrants better prepare, training sessions were held a few months before at OAKA Olympic Stadium and at Andreas Sygros Park with the help of an experienced trainer. On the day of the race, 89 people took park in the 5K, 53 people in the 10K, and 19 people ran the 42K Classic Marathon, all finishing in the packed Panathenaic Stadium. Note that MOTOR OIL secured 110 of the 161 entries through the Desmos non-profit organisation, thus supporting its worthwhile work.

#### FOOTBALL AND BASKETBALL TEAMS

In 2015, the MOTOR OIL employees' football team performed exceptionally well, winning the championship once again in the 45-team Amateur Athens Corporate Games League. The team has won a total of 18 titles, including 9 doubles, and has also performed very impressively in foreign fixtures. Meanwhile, the basketball team competed in a corporate league that featured 40 company teams and took 4<sup>th</sup> place in the event.

- Personal development and welfare.
- · Covering medical treatment cost in case of health issues.
- Family assistance.
- Provision of various other facilities.
- Strengthening corporate culture, and cultivating cooperation and team spirit.

# IN 2015. THE GROUP'S BUDGET FOR DISCRETIONARY BENEFITS TO EMPLOYEES AND THEIR 6.7 **MILLION EUROS**

Such employee benefits are: insurance policies providing both pension and medical treatment coverage for employees, schemes helping employees with the costs of their children's education, Christmas parties for employees' children, long-service awards, support for employees participating in sporting activities, etc.

- This year marked the first time that MOTOR OIL supported employees from the entire Group taking part in the

#### VOLUNTARY BLOOD DONATION

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Blood donations by employees of MOTOR OIL have become a tradition, now with a 30-year history. The programmes are run in association with the Corinth General Hospital (for employees at the refinery), the Metaxa Specialist Cancer Hospital (for employees at the MOTOR OIL head offices), and the Laiko Hospital (for employees of Coral and Coral Gas). Overall, the resulting blood reserves are used to cover the

needs of the blood donors themselves, their families or close relatives, and other people, in the event of an emergency. One hundred and forty-one units of blood were donated during 2015 and the total amount donated since 1991 is 3.473 units.

# 6. EDUCATION AND TRAINING

Investment in ongoing training for our employees is a strategic choice and a key element in the process of aligning our workforce's skills with the full range of objectives and ambitions of the Group.

Therefore, given the critical importance of the issue, the • More general needs to improve workforce skills. MOTOR OIL Group designs and implements each year, a comprehensive programme of education and in-house THE EDUCATION AND TRAINING PROGRAMMES COVER training for employees. The basic objective served by our education and training programme, is to ensure our employees have the background knowledge necessary to perform their specialized duties, allowing them to carry out their everyday tasks, while also preparing them for employment requirements in the longer term.

We thus seek to continually enrich the vocational knowledge of our employees, expanding their range of skills, while also upgrading their level of technical training.

## **6** MILLION EUROS FOR EDUCATION AND TRAINING PROGRAMMES **OVER THE PERIOD 2011-2015**

#### **EDUCATION AND TRAINING PROGRAMMES**

The main parameters determining the planning and implementation of the individual education and training programmes are the educational needs of the workforce as identified in the working environment each year.

The planning of such programmes is based on:

- The Group business objectives.
- The training programmes organized in previous years.
- The training required in areas of technical specialization.
- Training needs in the areas of health and safety, with emphasis on the technical side, but also on raising awareness of all levels of workforce and management of the vital importance of workplace safety.
- Training needs in the areas of guality and environmental protection.

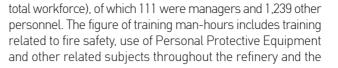
# THE FOLLOWING AREAS:

- Training in business and administrative skills, computer skills, as well as personal development issues.
- Introductory training for new operators and maintenance technicians, and for new engineers.
- Skills training for technical staff in their particular areas of employment, as well as in use of personal safety equipment and working machinery/equipment.
- Training regarding Health. Safety. Environmental Protection and Quality, with an emphasis on the special features of each workplace.
- Training of non-technical staff in basic Health and Safety regulations, use of fire-fighting equipment and first aid provision.
- Instruction in safe driving techniques and in the procedures for the safe loading, unloading and transport of fuels.
- Emergency preparedness exercises, including scheduled or unscheduled drills.
- Learning foreign languages.
- Health and Safety training for subcontractor personnel.

The education and training programmes are implemented either through in-house seminars or by attending international seminars run by internationally recognized educational centres. Also, Group managers attend conferences both in Greece and abroad, participate in undergraduate and postgraduate courses and are kept up to date through the purchase of books and subscriptions to specialist technical journals and professional associations.

#### **TRAINING IN 2015**

In 2015, a total 27,000 man-hours were devoted to education and vocational training -at an overall cost of 1.3 million eurosinvolving the participation of 1,350 employees (72.4% of the







Occupational health and safety, environmental protection and quality were the principal subjects covered by training activities in 2015.

In these areas training was provided to cover the relevant management systems, the REACH Regulation, preventing sea and air pollution and avoidance of related incidents, process safety, occupational health, fire safety, the use of Personal Protective Equipment, rescue methods in cooperation with the Disaster Response Team (EMAK), safe driving and fuel transport, the provision of first aid and other more specialized topics.



other Group facilities. However, it does not include training hours associated with emergency preparedness exercises.

The other education programmes were designed to provide the existing technical staff with further training, in order to develop and further improve their skills in various specialized technical areas, and to instruct staff of the commercial companies in tax and IT issues, etc.

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Training was also organized in management and leadership, internal audit, workforce management and assessment, negotiation skills, creating a safety culture, accounting, finance, communication and law.

The contribution and significant involvement of Group executives in the in-house training and education programme was also very important. In 2015 this involvement accounted for about 2.344 hours.

Moreover, during 2015, in line with the policy on reimbursement of tuition fees, 6 employees were assisted in their efforts to specialise in particular subjects, or achieve first degree or postgraduate qualifications in areas relevant to the Group's current operations.

#### **MANAGEMENT AND EMPLOYEE TRAINING IN 2015**

We strive to continually develop our management staff by offering innovative, skills development programmes in cooperation with top educational institutions and bodies. In this context, the main training areas were as follows: The following programmes were held under the certification of Harvard University to teach leadership skills:

Leadership Academy Step 1: The objective of this training was to develop the skills necessary for all new managers to enable them to lead their teams and cultivate relationships with their colleagues and supervisors while aligning their own goals with those of the company.

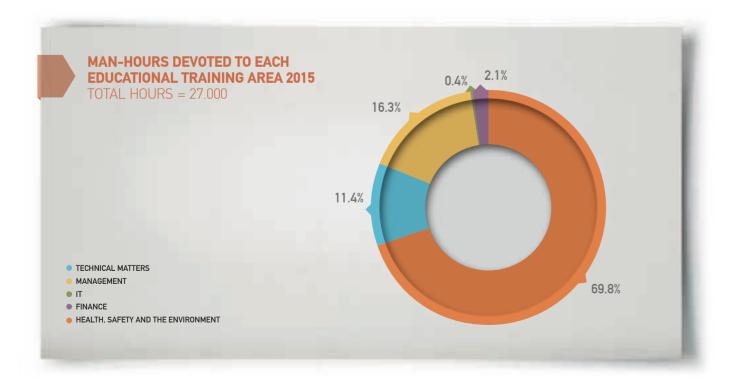
Leadership Academy Step 2: The purpose was to further develop the skills required of every manager in order to handle a variety of business challenges that have a direct impact on the success of their work.

**Leadership Academy Step 3:** This training programme is a suite of interactive leadership skills development programmes. It is designed to enable mid- to senior-level managers to build and apply their leadership skills through hands-on activities.

The following were also held to teach additional skills:

**Presentation Skills:** This sessions aims at an understanding of key presentation tools so that participants can present with brevity, clarity, coherence and vision while maintaining the interest of the audience.

Negotiation Skills: The goal here was to understand the key structural elements of negotiation and to upgrade the negotiating performance of participants.



#### TRAINING SUBJECTS AT THE REFINERY IN 2015

Internal training at the refinery is provided by instructors who may be refinery managers or highly specialized external instructors from Greece or abroad.

The main training areas were as follows:

- Training of shift workers in the use of fire-fighting equipment and personal protection equipment, with weekly drills.
- Training of rescue teams by the Elefsina Disaster Response Team in the rescue of persons at risk in inaccessible parts of the refinery, at a great height from the ground.
- Training of refinery foremen to secure Work Performance License. In 2015, all employees were re-certified.
- Training of staff of Equipment Inspection Service for certification and re-certification.
- Training of new refinery foremen (2<sup>nd</sup> class) on staff management.
- Training of all refinery supervisors on staff management.
- Training of refinery engineers on Advance Process Control.
- Participation of refinery engineers in international conferences and seminars.

During the year we also continued to add to the Digital Educational Material File, on the company intranet, posting material like e-books, conference presentations, training videos and so on.

The File is freely available to all, so that both management and workforce can stay abreast and study various areas of interest.

#### TRAINING TOOLS AT THE REFINERY

The training simulators are extremely valuable training tools, which contribute to the safe operation of the refinery. They are used to train operators of all grades, helping them develop their skills, expand their knowledge and improve performance through constant repetition and reminder. There



are simulators in the Catalytic Cracking Unit, the Hydrogen Cracking Unit and the new Atmospheric Distillation Unit.

The Technical Training Manuals - prepared entirely by our own refinery engineers - are written to reflect the current structure of the refinery and meet its current production needs. They provide the necessary theoretical and technical documentation, while at the same time offering a valuable source of information. They fully cover the training needs of the refinery workforce, and can also be used in other activities where information on the structure and operation of the refinery is required. In 2014, the new manuals were published in electronic form, as part of ongoing improvement efforts.

# HEALTH **AND SAFETY**

# 15.7 **MILLION EUROS**

SPENT ON SAFETY (INVESTMENTS AND OPERATING EXPENSES)

THE GROUP'S INJURIES **FREQUENCY INDEX** 

# The ongoing improvement of our health and safety performance will always be one of our main priorities.

The nature of the Group's business operations - refining, storage, transportation and marketing of fuels - combined with our corporate principles and values, make occupational Health and Safety a matter of exceptional importance, and a priority to which our commitment is absolute and permanent. In order to ensure a safe working environment, and achieve ongoing improvement in workplace health and safety conditions, we implement a rigorously structured Management System, fully aligned with European Union Directives and other, additional measures.

In pursuit of our established objective of Zero Accidents, we reinforce and safeguard our management system with:

- Ongoing training and presentations on safety issues, involving the entire workforce.
- Regular maintenance of equipment to ensure it functions properly and safely.
- Investment in new technology equipment and control measures.
- Risk assessment of critical tasks, in order to ensure that the proper precautions are taken before tasks are carried out.
- Introducing an annual safety day across the whole Group, with presentations of relevant material to the entire workforce.

Throughout 2015, the actions and implementation of systems aiming at reducing risk and eliminating the consequences of any undesirable incidents continued, with the ultimate goal of constantly improving our performance in Health and Safety.

The effort to upgrade the safety culture and raise the awareness on safety-related issues is also ongoing. Lessons learnt from international incidents in the refinery sector were presented, focusing in particular on the training of personnel and external associates.

Moreover, a range of investments were made on projects that reduce the possibility of an accident and upgrade the fire safety equipment.

# 1. HEALTH AND SAFETY MANAGEMENT FRAMEWORK

Health and Safety at work and the prevention of occupational hazard is a moral obligation and a business necessity, which goes beyond the narrow limits of a simple legal obligation. Our primary concern is to take measures, and implement projects and programmes, to ensure we attain our permanent objectives for workplace health and safety, which can be formulated as follows:

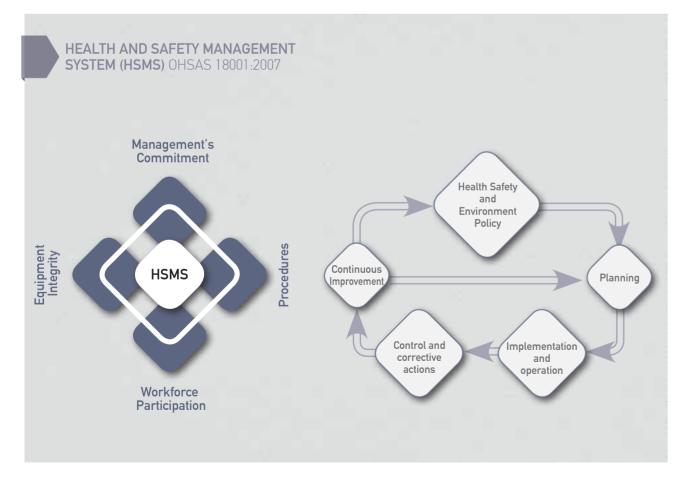
- To reduce the risk of major technological accidents to the lowest possible level.
- To eliminate occupational accidents "Goal Zero".
- Constant monitoring and upgrading of the guality of equipment so as to ensure that conditions conducive to safe work operations are continuously improved.
- Effective protection of people (our personnel, contractors' personnel, our neighbours, associates and site visitors), as well as the environment and our own installations. from the hazards that may arise from the company's activities.
- Ongoing training of personnel and briefing on health and safety issues in order to prevent accidents and occupational health problems.
- Full compliance with regulatory requirements.
- Active involvement of all employees in finding acceptable and effective solutions for protection and safety, as well

as in establishing regulations, identifying hazards and assessing risk

• Frank and open communication between workers and management in health and safety matters.

At the refinery, delivering on this commitment relies on the effective operation of the integrated Health and Safety Management System, which is certified compliant -since 2008- with the internationally recognised Health and Safety standard OHSAS 18001:2007.

The same certification has been secured by OFC (in 2006). Coral and Coral Gas (in 2013).



COMPONENT PARTS OF THE HEALTH AND SAFETY MANAGEMENT SYSTEM

	Policy	• Description of MOTOR OIL's commitment to the policy.
	Planning	<ul> <li>Strict compliance with relevant legislation, in established operational rules.</li> <li>Specification of annual goals, programmes a ensure optimum performance with respect</li> <li>Designation of responsibilities and accounta</li> <li>Systematic identification and recognition of activities at the refinery and other facilities.</li> </ul>
	Implemen- tation and operation	<ul> <li>Visible and systematic management by com</li> <li>Provision of appropriate and full training to a</li> <li>Understanding and analysis of operational rial employees and at all levels of managem</li> <li>Strict application and documentation of proce</li> <li>Ensuring that all operations are carried out</li> <li>Systematic reporting of incidents.</li> <li>Excellent cooperation and communication with all relevant information</li> <li>Systematic measurement of results and tary so as to ensure constant improvement in pervulnerabilities.</li> <li>Carrying out of exercises for the updating of</li> </ul>
	Compliance monitoring and correc- tive actions	<ul> <li>Ongoing inspections of machinery and other</li> <li>Regular auditing of safety procedures.</li> <li>Systematic investigation and analysis of all i</li> <li>Measurement, assessment and communication Rewarding of positive results.</li> </ul>
	Ongoing improvement	<ul> <li>Ongoing review of management system.</li> <li>Recommendations for improvement and rev</li> <li>Commitment to implementation of recommendation of recommendation of recommendation of recommendation.</li> </ul>

The operation of the Health and Safety Management System is assigned to the refinery's Health, Safety and Environment Section. Moreover, the health and safety organisation includes in-house safety engineers, occupational physicians and nursing staff - both at the refinery and at MOTOR OIL's head office - at a level that goes beyond the requirements of the relevant Greek legislation.

There are also two statutory committees:

- The Safety and Environment Committee, made up of the refinery section heads and representing the entire workforce.
- The five-member Employee Health and Safety Committee, whose elected members are appointed every two years by the refinery employees.



Health and Safety and arrangements for implementing

international standards and codes of practice and

and investment projects for equipment upgrades, to to both productivity and safety. abilities.

occupational hazards and assessment of risk across all

npetent executives at all management levels.

all employees.

isks in course of work and appropriate precautions, by hent

cedures for operational safety and efficiency.

in full compliance with safety rules and regulations.

vith public authorities and other stakeholders, including

get setting, using established industry indicators, performance and identification of malfunctions and

f the company's Emergency Response Plan.

er equipment to ensure its proper function.

incidents. ation of results

vision of current arrangements. endations.

The above Committees are intended to oversee control of health and safety conditions, making recommendations for changes and improvements as necessary.

Similar arrangements operate in the other companies of the Group, taking appropriate account of the particular conditions of each workplace.

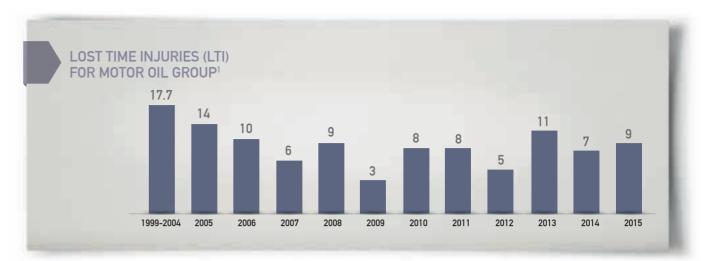
During 2015, our efforts to achieve our Health and Safety goals were focused on the following:

1. Improvement of safety culture and increasing the awareness of the personnel

- · Safety inspections, observations of unsafe behaviours, interviews, investigations of main and secondary causes of an accident, risk evaluation in each task, monitoring of safety indices, etc.
- Frequent awareness actions on safety issues and meetings with the participation of all members (section heads, engineers, supervisors, foremen) aiming at the prevention of accidents and managing risk at work.
- Implementation of "Lessons learnt from accidents" training program including presentations of large accidents in facilities, with analysis and exchange of opinions of the participants.
- Enhancement of electronic library with incidents/accidents related to operations of the refinery or other facilities.
- Organisation of Safety Day campaign.
- Posting of safety signs throughout the refinery premises.
- Briefing of competent personnel regarding the new Corporate Contingency Plan.
- Execution Permits and their evaluation.
- Training and presentations to personnel with regard to risks of works close to areas with inert atmosphere, risks from hydrogen sulphide, as well as training of new operators.
- Retraining of personnel on the issue and receipt of Work Execution Permits (WEP) with new material and new • Revision of Safety Data Sheets in implementation of the upgraded examination guestionnaires. This training was implemented in two stages and all issuers and recipients (250 individuals) were recertified.
- Assignment of the training and certification work for the entire contractor's personnel employed in the refinery, to a company recognised with regard to training and certification issues.
- 2. Strengthening and improvement of the safety system
- Adoption of inspections with prioritisation of risks and goals for reducing possibility of failure, determination of frequency of equipment inspections and intensification of specific inspections - such as the recording and inspection of equipment due to corrosion under insulation (CUI), the

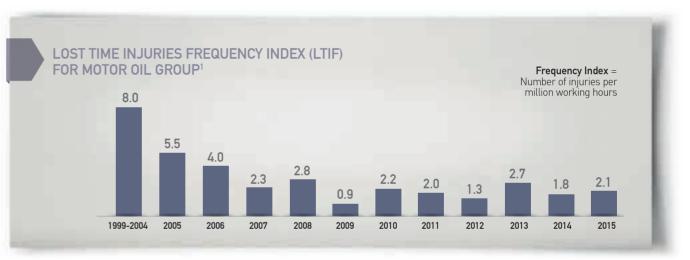
recording and inspection of dead legs and the risk analysis for change of operating parameters.

- Installation of a Refinery Equipment Machinery Information System, that ensures the central management and monitoring of information and data related to the refinery equipment, improving management of change.
- Strengthening safety measures in the storing and handling of chemicals, on the basis of the evaluation of risks posed by their particular properties.
- Implementation of Scaftag system.
- Revision of daily bump test of 4-gas control devices (H<sub>2</sub>S, O<sub>2</sub>, CO, combustible gas) with use of automated device.
- Strengthening of hydrogen sulphide detection systems with installation of fixed laser-technology detection systems in high-risk critical areas of the refinery.
- Participation in working group with competent bodies for the harmonisation of the SEVESO III directive in Greek legislation.
- Participation of members of the refinery in a seminar conducted by the General Chemical State Laboratory on the implementation of the regulation for classification, labelling and packaging of substances and mixtures (CLP regulation).
- Training of contractors on subjects of receipt of Work
   Participation in Concawe in safety issues, in order to optimize response to safety issues through collaboration with representatives of European refineries.
  - Participation in European programme 'Proteas: REACH Protocol for Emissions and Accident Scenarios in Supply and Distribution of Fuels and Petrochemical Products'.
  - CLP regulation.



Nine (9) lost time injuries were recorded at the facilities of the MOTOR OIL Group in 2015. All the above took place in MOTOR OIL's refinery. There was no injury in the commercial companies and the other companies of the Group.

There were no serious safety incidents during the course of our activities.



The Lost Time Injuries Frequency Index, which has shown particularly low values in the past decade, was at 2.1 in 2015. The corresponding LTIF figure for the refinery was 4.3.

# LOST TIME INJURIES SEVERITY INDEX (LTIS) FOR MOTOR OIL GROUP<sup>1</sup>



#### 1. Note: Includes the companies MOTOR OIL, AVIN OIL (since 2006), Coral and Coral Gas (since 2010), OFC (since 2012) and LPC (since 2015).

2. SAFETY INDICES

The extent, to which the Health and Safety Management System operates successfully, is reflected in trends in the most important safety indices, i.e. the number, frequency and severity of lost-time injuries.



#### **03** HEALTH AND SAFETY

The Lost Time Injuries Severity Index recorded a value of 0.6 across the whole Group in 2015, with a value of 1.2 for the refinery.

These values, in combination with the large number of new projects and extensive programme of maintenance, continue on average the steady downward trend of the last twenty years, demonstrating the ongoing effort to reach our Zero Accident target.

The Group's management is offering its steady support to programmes to educate the workforce and strengthen technical and organizational measures, in order to ensure we remain committed to our 'Zero accidents' objective. The LTIs have been analyzed in depth to identify their causes and establish the most appropriate corrective measures. which were then communicated to the personnel through training sessions and briefings. Recommendations for

equipment improvements, arising from investigation of LTIs. were implemented immediately.

These statistics relate to accidents involving the company's own employees and do not include Lost-time accidents involving subcontractors' employees, the level of which remains very low. Accidents involving subcontractors' emplovees numbered 1 in 2011, 4 in 2012, 5 in 2013, 2 in 2014 and 3 in 2015

Finally, we should note that, as in previous years, no case of occupational illness was recorded.

# **3. HEALTH AND SAFETY INVESTMENTS**

Improvements in working conditions and in the safety of the work environment are achieved by making the necessary investments in equipment, through the upgrading of procedures, and by means of Health and Safety inspections.

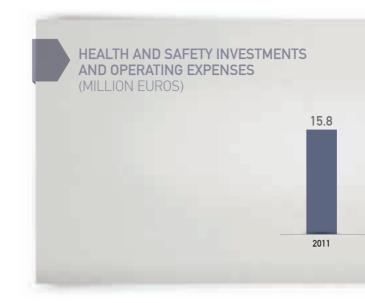
accordance with Greek and international regulations and standards. Nevertheless, a comprehensive investment programme in the proper maintenance of electrical, mechanical and electronic equipment and in technical upgrading and renewal of that equipment is continually implemented, taking account of developing technology, so as to maintain the highest possible standards of safety and accident prevention.

In 2015, the total cost of the investment programme of all Group companies on projects to improve health and safety and to procure safety and medical equipment amounted to 10 million euros, while the cost of operating expenditure of all kinds in this area was 5.7 million euros.

The greatest emphasis was laid on projects to reduce the risk of accidents and to improve working conditions, as well as projects aimed at upgrading fire safety measures at our facilities. More specifically, the most important projects for 2015 were the expansion of platforms and stairs, the reinforcement of foundations and the fire resistance protection of equipment, the installation of new and supplementary lighting in production units, the installation of a new loading

The refinery's design, construction and operation is in arm in the isomerization unit, the upgrade of personal protective equipment, the installation of independent level meters to avoid the overflow of tanks, the optimisation of fire-protection with sprinkler system in production unit containers, the arrangement of cables and their fire-protection, the installation of operating parameter control instruments, insurance valves, etc.

> Additionally, all our commercial companies proceeded to investments for improvements of the safety systems in service stations and their facilities. These included the installation of camera devices in service stations, maintenance of fire extinguishing means, maintenance of critical equipment and tankers.



# **4. INSPECTIONS**

It is our standing practice to carry out regular health and safety inspections, which involve scrutiny of production and distribution equipment, working areas and fire safety systems. The inspections allow us to identify hazards and recognize risk.

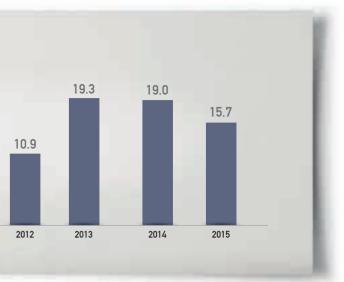
At the refinery, planned Health and Safety inspections are carried out by both internal inspection teams and external safety auditors, including specialist Greek and foreign consultants.

Hot-works and work in confined spaces are subject to a programme of intensive auditing and inspection. The Health, Safety and Environment Section carries out on average 6 inspections a day, with the total number of inspections approaching 1,600 in 2015, not counting checks carried out during maintenance periods.

Projects under construction are subject to daily inspections, while planned horizontal inspections - carried out by teams of different composition and mandate, comprising refinery executives and other competent personnel - are performed according to an annual schedule, as follows:

- · Safety and Environment Inspections: carried out by a fourmember team headed by a Head of Section and comprising engineers and supervisors. There are 24 of these teams, each undertaking every year to inspect six of the 24 sections into which the facilities have been sub-divided for the purposes of more effective and comprehensive control.
- Executive Safety and Environment Inspections: carried out by teams headed by the refinery Deputy General Manager and including departmental managers and the Head of the Health, Safety and Environment Section.

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Recommendations for improvements in working conditions and safety also arise following meetings of the Safety and Environment Committee and the Employee Health and Safety Committee.

The findings of the above-mentioned horizontal inspection procedures and recommendations arising from meetings of the two committees, after evaluation, lead to appropriate technical or organizational measures being taken. In 2015, in total 296 new recommendations were put forward, while 266 were implemented (including some pending from the previous year), with another 276 recommendations pending at the end of the year.

Vertical inspections were introduced in 2009. These are conducted on a guarterly basis by the section head, the engineers and supervisors of the various sections. Each section of the refinery will undergo four such inspections each year, one for each shift. In 2015, 114 new recommendations were put forward, following vertical inspections covering all refinery sections; 126 were implemented (including some outstanding from the previous year) and 72 remain pending. It is self-evident that technical inspections and monitoring of equipment carried out by the Technical Department, will lead to findings and the taking of measures which reduce hazard and risk and contribute to the improvement of occupational health and safety conditions. The programming and management of these results of inspections are based on the use of computer systems like the PCMS (Plant Condition Management Software), designed to generate optimal safety results and saving of resources.

Finally, the company takes special care to ensure the this equipment is carried out according to a very carefully operational readiness of the equipment of the fire safety system. The routine and periodically scheduled checking of

planned annual programme under the supervision of the Fire Safety Service.

# **5. PROCEDURES**

Technical integrity of equipment, compliance with international standards/regulations and safe working conditions are amongst the primary factors ensuring safety in the workplace. Even more important is how individuals behave (the "human factor"). Refinery employees are able to perform their work safely not only as a result of the strict work procedures they are required to follow and of having been provided with appropriate skills and competencies, but also because they have been trained in safety awareness.

#### **COMPLYING WITH LEGISLATION**

The company is fully aware of, and strictly complies with, all relevant Greek and European Health and Safety legislation, while it also applies any relevant international standards. codes of practice and other operational norms, where these are judged likely to help achieve even higher standards of protection than would be achieved by legal compliance alone. An independent third party certifies full and comprehensive implementation of legislation in our internal procedures and operations.

We have also developed an intranet database containing all health and safety provisions of Greek law relevant to the refinery's operations. It is constantly updated and made available to all employees on the company intranet. This database is exceptionally important, not only for the legality of our operations, but also for the wealth of information it contains on a wide range of issues, including hazard identification and control, the drafting of emergency preparedness plans, maximum acceptable levels of exposure to hazardous substances, the use of chemical substances and the relevant precautions, etc.

Besides data on legislation, the database contains other significant resources relating to refinery safety, including: all training material; the complete internal safety regulations for the refinery; hazard and risk assessment reports covering all individual workplaces; specifications for all safety equipment (e.g. personal protective equipment -PPE- and fire-fighting equipment), and material safety data sheets (MSDS), accidents/ event/near-misses investigations, etc.

#### HAZARD IDENTIFICATION, RISK ASSESSMENT AND CONTROL

We are continuously engaged in establishing best practices for identification of health and safety hazards in all areas and in implementing procedures for immediate response. The framework for identifying and controlling risk is laid down in Greek legislation and in other European and international

codes of practice. Across the whole range of refinery activities, studies have been conducted to assess risk for each work station and task; the necessary measures have been taken to eliminate or minimize all risks identified.

Whenever changes are made to workplaces or to working practices, these risk assessments are reviewed so as to ensure they are always relevant and up to date. Moreover, in the context of the requirements of OHSAS certification, the whole monitoring process of our procedures has been made more methodical and effective. Within each refinery section, risks identified are classified into three categories according to the hazard level: low, medium or high. For each category of risk we prepare a timetable for taking action to eliminate or reduce the risk, and appoint a manager to be responsible for the necessary action.

We provide appropriate and adequate training to all our workers covering: information and instruction relevant to the hazards arising from their work, measures for the elimination of hazards or control of risk, correct use of personal protective equipment, safe working practices, appropriate emergency response procedures and first aid provision.

We ensure that all operations are carried out in full compliance with safety rules and regulations by taking all necessary precautionary measures and by establishing and adhering to specific procedures. Of particular importance during maintenance and repair work is the procedure for issuing of Work Permits, within a stringent statutory framework of rules and procedures. For this reason, the issuing of these Permits is the subject of continuous training activity, covering both those who issue them and those who receive them, both company employees and any sub-contractor personnel who may be involved in work activities on the refinery site. In respect of the need to assess and minimize operational risks, the HAZOP - Hazard and Operability - Study is used to analyze risk and operability in all new units or whenever changes are made to an existing unit, and a five-year revision programme is implemented. HAZOP studies were conducted in 2015 in the hydrocracker unit, the acid waste management unit and the alkylation unit.

Likewise, the studies required by the regulations on fire safety are conducted; other safety studies are prepared and communicated for approval and registration as appropriate with the competent authorities.

In respect of health and safety equipment (personal protective equipment, fire-fighting equipment, etc.) we implement rigorous specifications based on recognized European standards in order to optimize workforce health and safety precautions. A particular effort has been made to standardise specifications for personal protective equipment at all companies and facilities within the Group. In addition, safety equipment specifications are monitored continuously

## INDICATIVE ACTIVITIES IN 2015 IN THE AREA OF PROCEDURES

- compliance with health and safety rules when working in the refinery facilities.
- We reviewed procedures in the Health and Safety Management System. · We continued to update the Safety Data Sheets for refinery products, adding new information, as part of our implementation of the provisions of the European REACH and CLP Regulations.
- · Participation continued in international organizations dedicated to exploring and achieving continual improvement in rules and practices.

**REPORTS, MEASUREMENTS, INDICES** The security system is fully automated and includes an automatic identification system of incoming employees and We regularly report, record, investigate and analyze incidents vehicles with the issue of RFID cards during entry, security (fires, accidents, near-misses) using internationally recognized indices in order to take the appropriate corrective and cameras in the perimeters of the refinery and the port, a preventive measures, while enhancing our experience by motion detection system at the enclosure and an automatic monitoring investigations of serious accidents at comparable monitoring and notification system (video analytics) in case facilities abroad and incorporating their findings in our own of breach of the refinery's perimeter. practice.

Those of our personnel responsible for this protection are suitably trained, both in security and safety matters, so as to We systematically record all elements in our health and safety performance, for monitoring purposes, and at the same time be able to effectively and swiftly fulfil their responsibilities, we use internationally recognized indices suitably targeted being fully aware of the duties assigned to them, while at to provide a basis for checking ongoing improvement and the same time fully respecting individual freedoms and fundamental human rights. In this context security guards identifying any shortcomings or irregularities. are certified by the National Organisation for the Certification **PROTECTION (SECURITY)** of Qualifications and Vocational Guidance (EOPPEP) in the specialisation "Private Security Personnel". We take all necessary preventive measures to protect our

installations against possible - malicious or not - security threats.



so that they can be updated in line with the new technological developments.

In this context, the following took place in 2015:

- Improvement of alkylation unit suits for greater comfort of the use during the performance of works.
- Supply of full-face mask with incorporated intracom system.
- Supply of personal filter escape devices for all refinery workers in the field
- Supply of retractable, fall arrest system consisting of a strap with an integrated energy absorber for protection from fall from great heights (>12m) when used with a full body 5-point harness.
- Supply of safety barriers for protection from fall in small openings such as wells, or for excavations and unsafe points with a large area.

We continued implementation of the programme to monitor and assess contractors in respect of their

## 6. PLANNED SHUTDOWNS - NEW PROJECTS

Every year, planned shutdowns of refinery units take place, which are necessary to allow for periodic maintenance to be carried out and thus ensure their reliable operation, both in respect of efficiency and in respect of safe operation, while construction work on new projects is constantly being carried out. To avoid accidents during planned and unplanned shutdowns, a methodical approach is required, with continuous supervision while work is being carried out.

Such extended shutdowns of refinery units require vigilance examined in detail, in order to identify any critical works and and special precautionary safety measures, because of the greatly increased risk of accidents, which include: provision of information to all personnel involved in order to ensure they are aware of the necessary safety measures and to increase their safety awareness: daily co-operation with project managers to identify unsafe conditions and for the concomitant implementation of corrective measures; and daily site safety inspections.

The Health, Safety and Environment Section plays an active part in the shutdowns of units for maintenance work, depending on the type of work being done, carrying out continual monitoring and evaluation of the work in accordance with safety rules and good industrial practice.

In 2015, planned and unplanned maintenance works took place in various units of the refinery that lasted in total 52 days. Before the start of the maintenance works the schedule is potential risks and take measures. Training sessions and briefings are also organized, involving meetings between refinery and contracted personnel to ensure smooth cooperation and avoidance of unsafe actions.

Throughout the duration of the works there is close cooperation between the contractors, the Health, Safety and Environment Section and all the competent departments, in order to have direct information about any potential problems and actions for their immediate remedy and the extraction of conclusions on safety issues, which will help in the planning, organisation and implementation of future shutdowns.

# 7. REACH AND CLP REGULATIONS

The European Union REACH Regulation (Registration, Evaluation and Authorization of Chemicals) came into force on June 1<sup>st</sup>, 2007. The Regulation is intended to rationalize European legislation on human health safety and environmental protection from the potential effects of various chemical substances. At the same time, the Regulation has shifted responsibility for investigating the impacts of production, distribution and use of these substances to the industry itself.

The legal framework introduced by the Regulation directly affects producers, importers and final users of chemical substances and preparations in the European Union. The objective is to prohibit the import into, or the production within, the EU of any substance at any quantity above one ton a year, unless the substance has been entered on the European Register of Chemical Products.

After successful completion of the first phase of substance registration in 2010, MOTOR OIL, through its participation in various recognized organizations and consortia (CONCAWE, FERC, MERC), remains ready to respond to any requirements that may arise, is monitoring developments and preparing for the subsequent second phase of substance registration (2018).

The CLP (Classification, Labelling and Packaging) Regulation of the European Union came into effect in January 2009, ensuring that risks associated with chemical products are clearly communicated to employees and consumers in the European Union through proper classification and labelling of chemical products. The risks which may be posed to human health and the environment are labelled using a standard system of declarations and pictograms on packaging and on safety data sheets, so that workers and consumers are aware of the possible consequences of handling these products. MOTOR OIL has completed the above process of labeling its products on all safety data sheets.

# 8. EMERGENCY RESPONSE PLANS

Our emergency response arrangements are based on the Emergency Response Plan, which is regularly reviewed and updated to take account of expansions and other changes to the refinery's configuration, changing legal requirements, and changes to "best practices" resulting from technical developments or experience gained by others in dealing with major or non-major accidents. We have also prepared and submitted studies to the competent authorities, in line with the requirements of the SEVESO II EU Directive, which describe significant potential accident scenarios and related prevention and response measures, whereas in 2016 the safety study will be updated in line with SEVESO II.

The Emergency Response Plan describes, with particular reference to a major accident situation, the public health protection measures -including warnings for neighbouring communities, and related advice- that would be put into effect in the event that the Major Technological Accidents Response Plans were activated; these plans are drafted by the competent authorities and determine how the state might intervene in emergency situations.

the involved personnel an overall emergency response plan. which may arise from the operation of the Refinery. The plan provides the necessary guidelines for taking and executing the correct decisions and actions, providing information for:

- emergency.
- The fixed and portable equipment for leak detection and The purpose of the Emergency Response Plan is to offer fire-fighting, which are upgraded according to a regular annual investment plan. The design and installation of autonomous, permanent fire-extinguishing systems at key points around the refinery offer the ability to respond to incidents immediately and ensure the greatest possible the operational organisation for addressing the event / protection for personnel and operating equipment. In 2015, in order to improve the fire protection of the refinery, we • the Action Plans planned, and will implement in 2016, the conversion of • the communication with the company's staff and the Public five semi-permanent foam monitors, on corresponding Authorities and/or other competent services that must be permanent systems, which will increase the readiness and improve the reaction time in case of an incident. All notified in each case. the communication actions with the other stakeholders breathing apparatus were also upgraded in 2015, by fitting them with excess flow valves, for use with autonomous Features of the plan include: breathing apparatus.

- The Mutual Aid Agreement whereby all Greek refineries • The availability on the refinery site of six fire engines and co-operate in the event of an emergency, which dates from one 12,000-litre bulk foam tender, that are available on 1988. The effectiveness of this collaboration plan is ensured 24-hour standby, and are operated by trained firefighter through joint exercises involving MOTOR OIL, the local fire crews. brigade and the other refineries. Within 2015, MOTOR OIL The existence of alternative locations for the Incident Control participated in a fire safety exercise in the refineries of ELPE Room at four different strategic points on the refinery site, Aspropyrgos in the context of this program. Additionally, and the availability of a state-of-the-art emergency telephone MOTOR OIL is in constant communication with the Corinth system that provides for refinery staff to be contacted at Fire Brigade regarding training matters on how to address times of emergency outside of normal working hours. an incident inside the refinery's facilities.
- A significant addition to the refinery's communication Development of the Corporate Contingency Plan for reciprocal resources is the introduction of satellite phones at the assistance between companies in the Group in the event refinery itself and in the administration offices. These phones of an emergency. This has also been integrated into the make communication possible and allow coordination Emergency Response Plan of each individual company. between administration and refinery even in extreme In this context, MOTOR OIL participated in fire safety drills circumstances, such as a natural disaster, when ordinary at the facilities of OFC. landlines and mobiles may be rendered useless.
- Drills carried out every week and major industrial accident response drills carried out regularly during the year,

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during which the Major Incident Response Procedure is activated. Safety drills and major exercises contribute greatly to the training and preparedness of employees. and to the evaluation and modification of the plan itself. They also help us to evaluate and upgrade the fire safety equipment, because the exercises prompt suggestions for new means of improving fire safety, the progress of which is monitored by the management on a monthly basis.

• The installation of a digital radiocommunication system (TETRA) started in 2015 to be completed in 2016, in replacement of an existing analogue system, aiming to improve communication. It will be accompanied by integrated GPS, Man Down and Panic Button for protection of the personnel.

of personal hydrogen sulphide equipment as well as the use of personal filter escape devices, by all workers in the field (MOH personnel and contractors).

• In the context of protecting the personnel against any unplanned incident, we implemented the mandatory use

# 9. SAFETY OF PORT INSTALLATIONS

Safety measures at port facilities are of great importance to us, because they ensure the smooth flow of the works in the refinery, as well as the protection of the marine environment from any pollution.

It should be noted that, in 2004, MOTOR OIL became the first Greek company to be certified by the Ministry of Mercantile Marine and the Aegean for compliance with the International Ship and Port Facility Security (ISPS) Code, which is applied according to the requirements of chapter XI-2 of the International Convention for the Safety of Life at Sea (SOLAS). The accreditation is reviewed each year, in accordance with the existing legislative provisions.

In all areas of the port facilities security checks are carried out on crews, visitors, supplies, as well as checks on access. In 2015, 8.827 people and 1.729 vehicles entered the port facilities, after passing security checks. The security checks

are conducted with the permission of the Port Authorities, pursuant to the terms and conditions laid down in the approved Port Facility Security Plan, which is based on the International Ship and Port Facility Security Code (ISPS Code). The Code requires that drills be held at least every sixteen months, using security scenarios that are often combined with sea pollution and/or fire scenarios. The last drill was held in September 2015 with the cooperation and participation of the local Port Authorities.

1,715 ships berthed at the guays of our port facilities in 2015.

## **10 SAFFGUARDING WORKFORCE HEALTH**

The health of our workers is a key area of care and concern. Therefore, the personnel at the refinery and the facilities undergo regular check-ups, while all Group employees are covered by group hospital care programs.

The refinery provides full coverage to personnel and infrastructures for the provision of medical services and first aid, which includes:

- Central Medical Centre staffed by an occupational physician and nurses, provided with the necessary hospital equipment to deal with emergencies.
- Pharmacy.
- Fully equipped first-aid station at the Alkylation Unit, with nurse on 24-hour call
- Three fully equipped first aid stations.
- ECG, allowing dispatch of data to a specialist cardiology centre for immediate diagnosis and provision of instructions.
- Three fully-equipped ambulances.

In addition:

- Fire-fighting crews are also trained in rescue practices and in first aid provision.
- Employees are supplied with the necessary personal

protective equipment, which is always kept up to date, in line with technological advances and changes in European specifications.

- The quality of drinking water is tested through regular analysis by independent laboratories.
- The restaurant staff undergo regular medical checks in accordance with the requirements of the law.
- Measurements are taken to establish levels of concentration of chemicals in the workplace, in line with the requirements of the relevant legislation. A study was conducted in 2013 confirming once again that the levels of chemical substances were below the limit values.
- At the head offices there is a fully equipped clinic, staffed by doctors and capable of responding to serious incidents. managing chronic conditions, offering advice and information on health issues, organizing seminars, blood donation and preventive check-ups, and supporting the surgeries of the other companies in the Group.
- Finally, company doctors and arrangements for general

medical procedures and screening examinations are also in place for the benefit of all subsidiary companies of the

# 11 TRAINING ON SAFFTY ISSUES

The continuous training of our employees and the creation of a high level of safety awareness, together with the technical and organisational measures, form the essential pillars for accident prevention and the maintenance of a safe work environment.

Our commitment is to train the workforce on safety issues regarding the entire spectrum of their work, in order to increase productivity and reduce risks and the frequency of accidents. We also see that our contractors' employees are kept aware of health and safety issues, with the emphasis on general principles of accident prevention and the company's procedures ensuring safe execution of the work they undertake. Visitors are given safety instructions in the form of a special leaflet, while a special briefing film is screened for them on entry to the refinery facilities.

The general content of health and safety training includes the following subjects:

#### FIGURES FOR HEALTH AND SAFETY TRAINING IN 2015

Total Workforce

Workers undergoing training Man-hours of training

Contractors undergoing training Man-hours of training 1. AVIN OIL. Coral. Coral Gas. LPC and OFC.

# SAFETY DAY 2015 WE ACHIEVE "GOAL ZERO" BECAUSE WE CARE

In recent years, the Safety Day has been organised on an annual basis in the Group. In 2015, the Safety Day took place on the 6<sup>th</sup> of May with the subject "We achieve Goal Zero because we care". This Day is organised simultaneously throughout the Group, in all the companies, offices, facilities and service stations, and the workers dedicate some time from their work to participate in scheduled meetings. In 2015, there were 65 meetings throughout the Group with the participation of more than 1,000 workers. Videos and slides are presented during the meetings on the subjects of Safety for People, Safety of Procedures and Road Safety. A discussion follows on how each individual can contribute towards the Goal Zero, for Zero Accidents and Zero Lost Time Incidents, with participants showing great interest and making personal safety-based commitments. These days have the broad support and the participation of the Group's leadership, and they play an important role in forming a uniform culture regarding the importance of Safety.



Group (AVIN OIL, Coral, Coral Gas, LPC and OFC).

- Fire safety use of fire extinguishing means.
- Work Permits.
- Work in confined spaces.
- Identification of occupational hazards and risk evaluation.
- Personal Protective Equipment.
- Material Safety Data Sheets.
- Emergency response procedures and participation in relevant drills.
- First-aid.
- Presentations analyses of Major Technological Accidents.
- Safe road transport of fuels (for the Group's commercial companies).

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	MOTOR OIL	Other companies in Group <sup>1</sup>
	1,192	741
	800	422
	14,439	3,601
	336	228
	2,688	1,436

#### WORKFORCE TRAINING

In order to raise safety awareness among refinery personnel, safety messages and posters, the results of accident and near-miss investigations, etc., are displayed on 13 Health and Safety notice boards, reserved for this purpose, and located throughout the refinery site.

Fire safety drills continued to take place in 2015 as in every year, and were carried out by the immediate intervention teams made up of refinery training staff. Rescue teams received training from the First Search and Rescue Team (EMAK) of the Elefsina Fire Brigade in rescue of persons at risk in inaccessible parts of the refinery, at a great height from the ground. Moreover, the structured efforts to educate the technical staff of our facilities were continued through films and presentations/discussions on incidents, analyzing causes. effects and the corrective measures taken.

#### BRIEFING FOR CONTRACTORS' EMPLOYEES

Briefing of contractors' employees working in our facilities continued in 2015 with the training programme (provision of literature, daily training, certification through examinations, recording of results on special data base, issuing of special card) for recipients of the Work Execution Permits for contractors' employees. The training is based on informational material consisting of a general unit covering workplace health and safety issues at the refinery and a special unit covering issues relating to 29 separate special skill areas. This briefing programme lasts eight hours, and in 2015 the sessions were attended by 336 persons.

## TRAINING IN FIRE SAFETY

In order to improve the readiness of refinery personnel to respond to emergency situations, as well as to rehearse the procedures of the Emergency Response Plan and check the operability of equipment, regular emergency preparedness exercises are carried out. In 2015, the programme in guestion involved 8 training sessions on the drill field and 44 drills, 24 of which were based on Major Industrial Accident scenarios.

The pre-scheduled drills took place in various areas of the refinery and the fire crew training field, involving rehearsal of fire crews in the theoretical and practical aspects of their duties, and their familiarisation with fire-fighting equipment and related Personal Protective Equipment. Theoretical drills were also organized in the section control rooms (for all shifts) in the presence of the personnel of each area and the fire safety crews.

The refinery engineers also participated in the fire safety drills to receive further training in the handling of scenarios of this kind. In 2015, the fire safety drills gave rise to 2 recommendations for new measures to improve protection for unit equipment, all of which were immediately implemented in full.

#### In addition, in 2015:

- · All shift-workers passed the annual training in the use of Respiratory Protective Equipment.
- Training of the rescue team continued.
- Training sessions were held to maintain training levels for fire engine drivers and reserve drivers, familiarizing them with access to various areas and the equipment in new units.
- There were also training sessions for new crew leaders, as well as all the new drivers, to familiarize them with the fire engines and the access roads around the refinery.

#### PROTEAS PROGRAMME

MOTOR OIL and AVIN OIL continued their participation, in collaboration with the Technical University of Crete, in the European programme PROTEAS, under the title «REACH Protocol on emissions and accident scenarios in the supply and transportation of fuels and petrochemicals».

The PROTEAS programme was launched in 2011 and was completed in December of 2015, funded by the European LIFE+ programme. Its main objective was to support implementation of the new European REACH and CLP Regulations in Greece and Cyprus.

The objective of the programme was to develop Safety There is also an ongoing training programme focusing on Data Sheets for petroleum products, in accordance with the defensive and safe driving, loading/unloading procedures European REACH and CLP Regulations, as well as a Protocol and fuel handling, anti-skid and anti-roll over manoeuvres. of Best Practices in Health, Safety and the Environment for fuel chemistry, handling of customer complaints, vehicle handling of petroleum products throughout their whole life safety equipment, fume recovery, etc. cycle.

#### **ROAD SAFETY**

Road safety is a priority for the Group's commercial companies, which every day transport more than 10,000,000 litres of liquid fuel and 135,000 MT of gas across Greece In recent years, the programme has also incorporated a and the Balkans. On an annual basis, they travel more than detailed analysis of the routes taken by our tanker drivers. 17 million kilometres delivering fuel in Greece and abroad so that the safest route is always taken for each journey. GPS tracking devices have also been fitted to tankers to without accident or injury to drivers or others, demonstrating allow closer monitoring of driver behaviour (speed, route in practice our commitment and dedication to road safety, and our contribution to the common good. taken, stops etc.).

As a result of the analytical and innovative work in the road In 2015, more than 400 drivers of private and public use tank trucks received training in their special skill areas. safety sector, AVIN OIL received the GOLD award in the Health & Safety Awards 2015 in the REDUCING OCCUPATIONAL ROAD Fuels fall under the category of hazardous materials and RISK category, namely for the integrated plan it implements their safe transport requires precautionary measures to be in road transport.

taken at three levels, i.e.:

- The maintenance of a high technical standard of transport equipment. i.e. road tankers.
- The promulgation of strict safety procedures and the constant monitoring of their implementation.
- Ongoing training of our own tanker drivers and drivers of the transport companies working with us.

The Group's commercial companies, carrying out their activities with a keen sense of responsibility, are continually engaged in striving to meet the above requirements, in the context of the rules laid down by the state, the Greek and global petroleum industry, and their own company policies and procedures. To succeed in this objective they operate integrated systems for recording and monitoring of road tankers carrying fuel on their behalf (company-owned or belonging to partner companies), as well as training programmes for drivers, while also undergoing tests and certification from external accreditation agencies under the standards ISO 9001 (Quality Management), ISO 14001 (Environmental Protection) and OHSAS 18001 (Health and Safety Management).

The road tankers undergo a thorough annual safety check in accordance with the «Regulations on Safety of Loading of Tankers with Liguid Fuels at Petroleum Facilities». This check extends to the full compliance with the terms included in the European Agreement concerning the Carriage of Dangerous Goods by Road (ADR).



In 2015, AVIN OIL organized a training seminar in safe transport and loading/unloading of hazardous substances in the context of the PROTEAS programme.

# RESPONSIBILITY FOR THE ENVIRONMENT

WE USE BEST AVAILABE TECHNIQUES AND STATE-OF-THE-ART ANTI-POLLUTION TECHNOLOGY

# **24.6**%

THE REDUCTION IN THE SPECIFIC CO<sub>2</sub> EMISSIONS INDICATOR (2009-2015)

22.7%

THE REDUCTION IN THE SPECIFIC ENERGY CONSUMPTION INDICATOR (2009-2015)

**14.1 MILLION EUROS** IN INVESTMENTS AND OPERATING EXPENSES FOR THE ENVIRONMENT IN 2015

# Protection of the environment and energy-saving are among our primary concerns.

Respect and care for the environment is a common denominator in all activities of the MOTOR OIL Group. We operate competitively but, at the same time, as a responsible corporate organisation we espouse the principles of sustainable development; that is, development which is based on environmental protection, mutual respect and responsibility towards future generations.

For these reasons we continue with investments aimed at the steady improvement of our environmental performance.

In 2015, we spent 14.1 million euros in our investment programme, featuring both large and smaller scale projects, making a direct or indirect contribution to environmental protection.

In 2015 we completed the construction of a unit to process contaminated soil by the method of bioremediation, through which we biodegrade petroleum substances and further manage contaminated soil as non-hazardous waste. We also made investments to upgrade and replace furnaces with the goal of further enhancing our energy savings. We expanded our application of the Advanced Process Control system to the hydrodesulphurization units, achieving optimal control and ongoing automated regulation of their operation. Also, as part of general equipment maintenance, we completed projects to reduce energy consumption and emissions.

Our commitment to continue to decrease our environmental footprint, as can be seen in the diagrams of the related indicators, remains steady and unchallenged, even though in 2015, due to a series of factors that are analysed thoroughly in the subchapters, an occasional increase to the specific values of the energy consumption, carbon dioxide emissions and sulphur dioxide indicators was noted, whereas the specific water consumption was at the same levels as 2014.

Finally, in 2015, the Environmental Management System was updated with revision of five communication procedures and two operational processes, and the annual Environmental Statement 2014 was issued in accordance with Regulation EMAS III ER 1221/2009.

The indicators and texts contained in this chapter pertain only to the MOTOR OIL refinery except the subchapters 3 and 8 which include all of the Group's companies.

# **1. ENVIRONMENTAL MANAGEMENT**

Our principal aim is to operate within the framework of our environmental licensing and to rigorously adhere to the relevant Greek and European legislation, and to implement projects and actions that go beyond basic legal compliance, aiming at the constant optimisation of the energy performance of our facilities and at minimizing emissions of greenhouse gases and other pollutants.

Selection of the most efficient means and measures to reduce environmental impact covers the entire spectrum of our activities; from the selection of technologies when building new processing units, to the practices applied during the refinery's daily operation, and from the use of advanced control systems in our facilities to the training provided to employees working in them.

#### **ENVIRONMENTAL MANAGEMENT SYSTEM**

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The focal commitment of the company to the minimization of the environmental impact, resulting from its operation is expressed through our Health, Safety and Environmental Protection Policy. Our commitment could not be realized without the application of an effective environmental management system that has been certified as compliant

with international standards. This system ensures that environmental performance is measured systematically and that activities requiring intervention and improvement are identified. Thus, the principle of prevention is successfully implemented and resources are allocated so as to achieve the maximum possible environmental benefit.



#### ENVIRONMENTAL OBJECTIVES

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The Environmental Management System is an effective management tool for implementing the various environmental protection policy objectives, which are:

- Complying fully with all Greek and EU environmental protection legislative requirements.
- · Operating the refinery facilities within the framework of approved environmental terms.
- Distributing products that comply with the European guality and environmental protection norms, by taking steps to upgrade production facilities accordingly.
- Planning and implementing investment projects with due

- regard for the need to minimise environmental impacts.
- Applying Best Available Techniques to the greatest possible extent.
- Monitoring and continually minimising the emissions of greenhouse gases, as well as those of other pollutants, and of solid and liquid waste, as far as technically and economically possible.
- Monitoring and, as far as possible, minimising, the consumption of energy.
- Pre-empting risks of environmental pollution, reducing the probability of environmental accidents, and preparing, implementing and testing the appropriate emergency response procedures.
- Training of, and awareness-raising among, all our personnel and contractors' employees who work on our premises, on the implementation of our environmental protection policy.
- Evaluating our environmental performance and continuously improving our Environmental Management System.
- Developing communication and dialogue with all stakeholders, especially with local communities in areas around the company's facilities.

The company's Environmental Management System was first ISO-certified in 2000, according to ISO 14000:1996. In allowance trading within the Community. 2004, it was certified compliant with the updated version ISO 14000:2004, in 2007, it was re-certified compliant with the The environmental terms require the operation of an integrated new version ISO 14001:2004, while in 2008 the certification monitoring and control system, aiming at the prevention and expanded to include the production, trade and delivery of fuels, avoidance of air and surface or underground water pollution, biofuels, lubricants, waxes, asphalt and special petroleum or the contamination of soil, and ensuring the most effective products. In 2014, the Bureau Veritas re-certified our System as means are adopted to deal with all environmental protection compliant with ISO 14001:2004. The Environmental Management aspects of the refinery's operations. System is part of the Integrated Management System, which is ISO 9001:2008 certified for quality. Therefore, the various In 2015, as part of efforts to secure the ongoing evolution and internal operations and procedures of the Environmental improvement of the Environmental Management System, Management System are themselves subject to the strict five communication procedures and two operating processes documentation imposed by the standard. were reviewed.

Our commitment to publish our environmental performance figures and the impact of the operations at our facilities, as A key element in our environmental policy is to comply fully explicitly set out in our Policy on the Environment, led to our with the environmental terms laid down by the competent voluntary adoption and implementation of the Community authorities, and to operate within the framework of current Eco-Management and Audit Scheme EMAS III, provided for Greek and European environmental legislation. by European Regulation 1221:2009.

This system allows us to ensure that we are implementing the suitable procedures to identify material environmental impacts of our activities, and that we are drawing up strategies and implementing programmes to limit such impacts as far as possible.

Additionally, within the framework of EMAS, the company is committed to publishing, on an annual basis, information



about its environmental performance in the form of an Environmental Statement, as required by its membership to the Eco-Management and Audit Scheme System, an arrangement that has to be endorsed annually by decision of the Ministry of the Environment, Energy and Climate Change. In 2015, MOTOR OIL issued its BV certified Environmental Statement 2014, its ninth such annual report.

It should be noted that, in the oil refining sector, the triple combination of certified compliance with ISO 14001:2004 and EMAS, in respect of environmental performance, and ISO 9001:2008 in respect of quality management, is particularly significant and provides advantages at many levels. Such a multiple certification is unusual among European refineries with such high complexity as MOTOR OIL's.

The environmental terms of operation of the refinery, approved and implemented in 2009 and amended in 2011, 2013 and 2014, place all the refinery facilities, including auxiliary units like the Tanker Loading Terminal and the port facilities. under the provisions of Directive 2010/75/EC on industrial emissions. Finally, under the environmental terms, the refinery is subject to the provisions of Directive 2003/87/EC on introduction of a scheme for greenhouse gas emission

#### COMPLIANCE WITH ENVIRONMENTAL LEGISLATION

In this context, in line with our obligations in respect of the disclosure of information relating to our environmental licensing, in 2015 we submitted to the competent authorities, regarding 2014:

- Annual report of greenhouse gas emissions.
- Annual report on generation of hazardous and nonhazardous solid waste.
- Annual report on environmental quality.
- Six-monthly reports on emission of pollutants from the

central flue of the Hydrocracker Complex.

- Annual final report for the European Pollutant Release and Transfer Register (EPRTR), in implementation of Regulation 166/2006/EC.
- Annual report on taking delivery of waste products of ships arriving at the MOTOR OIL port facilities.
- Data on the main combustion plants and in the framework of Annex VIII (B) of Directive 2001/80/EC.

The following were also submitted to the Ministry of Environment and Energy:

- The main report on soil and underground water status, in compliance with Article 22 of Directive 2010/75/EU.
- The Annual Environmental Statement 2014, in accordance with the requirements of EMAS ER 1221/2009. The company is registered with the European Eco-Management and Audit Scheme (EMAS), and in the corresponding Hellenic Register, under number EL 000067.

Finally, in the context of implementing programmes of the Ministry of Environment and Energy, the location and data of the measurements of the atmospheric quality stations operating at the refinery as well as the refinery's flues were submitted, for project "Updating of map imaging of the atmospheric pollution through recording atmospheric emissions of the sources and developing an appropriate computational tool".

#### **REFINERY COMMUNICATION WITH LOCAL STAKEHOLDERS**

MOTOR OIL uses various means of keeping Local Authorities and other stakeholders informed of its activities, either by involving its own staff in conferences and meetings, or keeping local organisations informed about its investment plans and its programmes relating to environmental protection.

Besides briefing Local Authorities, the company also maintains open communication lines with refinery neighbours, listening and responding to any complaints they may have. Recording, investigation and evaluation of complaints from local people are all covered by a specific procedure to ensure the appropriate immediate or long-term corrective action is taken, in line with the causes of the nuisance.

The fact that in recent years the number of complaints from the local community has been kept at low levels demonstrates the efficacy of the aforesaid measures. Specifically for 2015, we received 15 complaints by neighbours, with 10 of them concerning nuisance from emissions, 3 from noise and 2 from odours.

2. ENVIRONMENTAL IMPACT MANAGEMENT

MOTOR OIL, in striving to continuously improve its environmental performance, over and above consistent legal compliance, implements a programme of measures for the prevention and management of the environmental impacts that are unavoidably associated with its operations.

An important tool in this endeavour is the measurement, regular evaluation of results, and the systematic assessment of the environmental impacts at all stages of the production process. This assessment is based on a set of criteria -including legislative requirements and stakeholder views, which lead to the classification of impacts according to their significance and their characterisation as significant or non-significant. This classification procedure is also carried out whenever there are any changes to the refinery's configuration, re-evaluating the classification and characterisation of the impacts.

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This procedure for classifying the environmental impacts associated with the refinery's operation, and their significance classification, has led to the following impacts being classified as significant, therefore constituting the challenges we are called upon to manage:

- Gas emissions from fixed combustion sources and from the refinery's production processes.
- Energy and water consumption.
- · Hazardous and non-hazardous solid waste.
- Liquid industrial effluents and urban liquid waste.
- Noise

The above environmental impacts are recorded on a regular basis, and suitable environmental indices are of the company's environmental performance.

When new projects are being planned, alternative designs are evaluated, taking account of their respective environmental impacts, with the aim of minimising these impacts as far as practicable, incorporating Best Available Techniques and choosing the most environmentally friendly solution.

# **3. ENVIRONMENTAL INVESTMENTS AND EXPENSES**

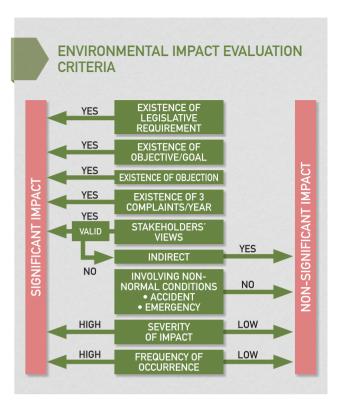
The company's investment policy is oriented towards producing products that comply with European guality specifications, using technologies that minimize environmental impacts, and towards capital investments aiming at improving and enhancing the refinery's environmental performance.

Between 2000 and 2015, the Group realised a massive From 2000 to 2015 investment related to the environment amounted to 767.5 million euros, i.e. 52% of total investment. investment programme, totalling 1,477 million euros (as shown in the relevant table), the major part of which related In 2015, total investments amounted to 42.4 million euros, to the construction of the new Crude Distillation Unit, as well of which 14.1 million euros concerned projects, whose as the Hydrocracker Complex, which produces "clean fuels" main purpose was the improvement and protection of the (i.e. of low sulphur content) satisfying EU specifications. environment.

GROUP ENVIRONMENTAL INVESTMENTS AND OPERATING EXPENSES 2000 - 2015 (MILLION EUROS)								
Year	2000-2009	2010	2011	2012	2013	2014	2015	Total
Total level of investment	1,043.1	123.3	71.3	67.6	68.7	60.7	42.4	1,477.0
Investment relating to environment	591.1	33.0	36.1	16.4	18.7	11.0	8.4	714.7
Environmental operating expenses	26.7	4.6	4.0	3.3	4.0	4.5	5.7	52.8
TOTAL ENVIRONMENTAL INVESTMENTS AND OPERATING EXPENSES	617.8	37.6	40.1	19.7	22.7	15.5	14.1	767.5

#### used for their monitoring, on the basis of which the appropriate actions are planned and implemented so as to ensure that proper measures are taken, and that there is effective management and continuous improvement





The construction of a new contaminated soil treatment unit by the method of bioremediation was completed in 2015, costing 170,000 euros. The unit, which constitutes Best Available Technique, allows processing of hazardous waste at the place where the waste is generated, eliminating the risks that would arise during transportation to another site for processing.

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Also in 2015, the pipelines in the port area were cleaned and laid out, and various projects for the management of rainwater and installation of new heat recovery exchangers in the desulphurisation units were carried out. Moreover, as part of our programme to upgrade equipment, improvements were carried out in the processing of alkaline wastes by upgrading the neutralisation unit in order to reduce the load of noxious substances.

In addition, a series of other projects were implemented during the year, within the framework of the refinery energy efficiency improvement programme, concerning the reduction of energy consumption, and subsequently of carbon dioxide emissions as well.

For 2016, in the context of the effort to further reduce emissions, there are plans to expand the existing loss monitoring system by tripling the available flow meters in the flare circuit.

In 2015, we started designing the upgrade of the vacuum distillation units by replacing the 3 old furnaces with 2 new and technologically advanced and more efficient ones, which will have a shared system that heats the combustion air, thus increasing the thermal performance. With this energy upgrade, fuel consumption in the units furnaces will be significantly decreased, and in combination with the option for simultaneous combustion of liquid and gas fuel, it is estimated that the emissions of pollutants will be noted.

In 2015, as in 2014, we expanded our application of the Advanced Process Control system to the hydrodesulphurization units, achieving optimal control and ongoing automated regulation of their operation. There are multiple benefits from the operation of the new system, in terms of operations, safety and the environment, the most important being the saving of energy and the consequent reduction of our carbon footprint in the production process.

Another important project worth mentioning is the replacement, back in 2014, of the furnace of the thermal pyrolysis unit, with a total investment of 11 million euros. Installation of the new furnace was intended to modernize and upgrade the Thermal Pyrolisis Unit, purely for environmental reasons,

with the following results:

Optimization of Energy Efficiency

The thermal efficiency of the new furnace is as high as 90%, making an important contribution to optimizing energy efficiency.

Energy-Saving

The burners of the new furnace incorporate forced draft technology, and use less energy than conventional burners. Reduction in Point Emissions of Pollutants

The enhanced energy efficiency achieved by replacement of the old furnace has a direct impact on reduction of atmospheric emissions (because of the improved combustion process and reduction in use of fuel). The burners in the new furnace are low NOx burners, which helps reduce the quantity of NOx emitted in the furnace fumes.

 Reduction of the produced solid waste and particle emissions The increase in energy efficiency leads to an indirect reduction in waste generation, since the more efficient combustion means that less coke is formed. Subsequently, reducing the number of these processes to the current 12-month interval will entail a reduction in particle emissions.

Within the Group there is no production of renewable sources of energy, and thus there was no investment in this area.

## 767.5 MILLION EUROS IN ENVIRONMENTAL INVESTMENTS AND OPERATING EXPENSES FROM 2000 TO 2015

# **4. BEST AVAILABLE TECHNIQUES**

Best Available Techniques (BAT) are techniques that can prevent (primary prevention measures that are intrinsic to the production process itself), or control (secondary measures or "end-of-pipe" techniques) -in the most efficient mannerthe pollution caused by an industrial activity, while being economically feasible and technically practicable. Best Available Techniques per sector are described in the corresponding Reference Documents (BREFs). The revised conclusions of the BREFs for refineries were issued in October 2014.

The new Directive 2010/75 aims at the integrated prevention In order to minimize environmental impacts. MOTOR OIL and control of pollution that can be caused by industrial incorporates the aforesaid BATs either into the original activities, and the assurance of a high level of protection plans for a unit, or in cases of modernization, expansion or of the environment and links the legislated limit values of modification of existing units and processes. At the same time, industrial emissions with the levels that are ensured with the company incorporates automations and control systems into the operation of the refinery, that contribute to efficient the use of the Best Available Techniques. The integrated approach is based on the overall environmental performance management of raw materials and energy, while ensuring of a facility and covers emissions into the atmosphere, water high levels of reliability and safety in the units. Finally, Best and subsoil contamination, generation of solid wastes, use Available Techniques that reinforce pollution prevention have been adopted, and are applied in the refinery's daily of raw materials and energy, noise, accident prevention and the rehabilitation of worksites operations. Some typical examples of BAT applications in the refinery are shown in the following table.

## A. ENERGY SYSTEM - FURNACES, BOILERS, GAS TURBINES

# facilities, efficient operation of boilers and furnaces

#### 2. Increasing the energy efficiency of the refinery by:

- Upgrading of furnaces and boilers.
- Use of optimal combustion programmes.
- Balancing generation and consumption of energy using automated control systems.
- Optimal use of steam in the stripping process and use of steam traps.
- Promotion of energy integration in production processes, through analysis of optimal energy use.
- · Promotion of heat and energy recovery at the refinery.
- Use of heat recovery boilers to reduce use of fuel in generation of steam.

#### 3. Use of refinery clean gas fuel and, if a supplementary supply of energy is required it can be achieved through the use of liquid fuel in combination with techniques to control pollution, or use of gas fuels (natural gas, LPG), for example;

- Optimization of the use of refinery gas fuel, or natural gas (with low sulphur content). • Balancing and control of the system for generation of refinery gas fuel. • Increasing use of gas fuels with higher ratio of hydrogen to carbon.
- Use of good combustion techniques.
- Reduction in fuel consumption through the introduction of forced-draft furnaces (increased energy efficiency).

#### 4. Control of NOx emissions

- Introduction of Low-NOx burners.
- Use of high thermal efficiency techniques, with optimal control systems.

OTOR OIL (HELLAS)

1. Use of efficient energy generation techniques, e.g. generating energy by gas turbines, combined-cycle

#### 5. Control of particle emissions

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- Use of steam injection techniques.
- Use of a catalyst which will resist wear caused by friction in the catalytic pyrolysis unit.
- Use of fuels with low sulphur content.

#### 6. Limiting emissions through continuous monitoring of the sulphur content in fuel

#### **B. MANAGEMENT AND AUTOMATED CONTROL SYSTEMS**

- The company has installed a distributed control system DCS to oversee its production process. The DCS system makes a significant contribution to reducing the environmental impact of the production process, through automation of the process and optimal monitoring of operating parameters.
- Application of Management Systems for quality, the environment, health and safety (ISO 9001, ISO 14001.0HSAS18001).
- Use of Advanced Process Control systems to minimise operation fluctuations and decrease energy requirements.

#### C. ANTI-POLLUTION TECHNOLOGY UNITS

- Units to treat gases with amine in order to remove hydrogen sulphide.
- Sulphur recovery units, with an efficiency level of  $\geq$ 99.9%.
- Sour water stripping units with an efficiency level of  $\geq$  99.9% in respect of hydrogen sulphide.
- Organic treatment unit for liquid industrial waste.
- Activated sludge sewage treatment unit.
- Sludge de-oiling/de-watering units, in which the volume of sludge is significantly reduced.
- Electrostatic filter at the Fluid Catalytic Cracking unit.
- Vapour recovery system at the Truck Loading Terminal.
- · Availability of emergency systems for maintenance work and response to system disruption (load-shedding systems, emergency amine systems, multiple wash down systems).

#### **D. ANCILLARY FACILITIES**

- Desalination of water using reverse osmosis technology, using less sea water and feeding the units with recycling of cooling water.
- Cogeneration of electricity steam with the maximum possible efficiency.
- Recycling of cooling water.
- Partial use of cooling tower with desalinated water aiming at decreasing the use of sea water.

#### E. PREVENTION AND MONITORING MEASURES

- Limiting fugitive emissions from various sources (oil separators, unit equipment, tanks, piping, etc.) by placing second-tier seals on floating-roof tanks, using special valves (low leaking) and double-seal pumps, implementation of international construction and piping codes, and so on.
- Implementation of leak detection and repair programme (LDAR) to detect and respond to fugitive emissions and volatile organic compounds from all kinds of equipment.
- Automated tank cleaning method.
- Heat exchanger maintenance and cleaning programme.
- Equipment inspection programme.
- · Atmospheric emission monitoring programme, through use of automated, highly accurate analysing devices, as well as model laboratory methods.
- Liquid waste monitoring programme, using model laboratory methods.
- Use of techniques to reduce production of wastes at source.

- Reduction in volume of solid wastes and recovery or regeneration of catalysts.
- Solid waste management using specialist companies.
- Recycling of solid waste where possible.

# 5. ENERGY EFFICIENCY

Rational use of energy – as well as other scarce resources, like water – is for us an important parameter in our exercise of responsible business activities and our commitment to the principles of sustainable growth.

Therefore we are committed to:

- Measuring and improving, on a continuous basis, our performance with respect to the use of energy and the reduction of carbon dioxide emissions.
- Investing in the application of economically feasible technologies that contribute to the reduction of emissions.
- Cooperating with the competent state authorities and other stakeholders in planning and implementing technologically

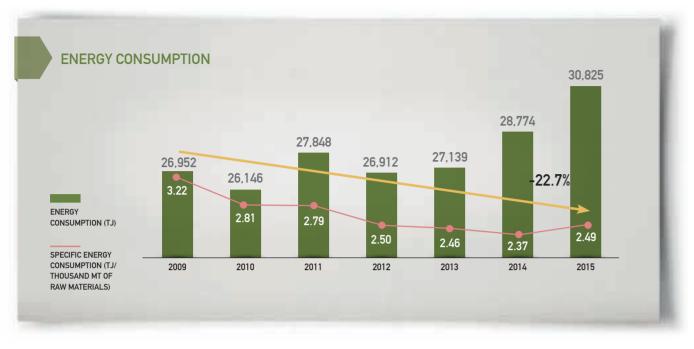
### 5.1. ENERGY EFFICIENCY IMPROVEMENT

The process of refining crude oil into final products is highly energy-consuming. Requirements for energy (i.e. electric power, fuel oil, fuel gas and natural gas) are such that its rational use is of paramount importance, both for the environment and for the company's economic results. The refinery's "energy footprint", therefore, is an important consideration that leads us actively to seek to identify areas where there is potential for enhancing energy efficiency, and to implement appropriate projects through the use of Best Available Techniques or equivalent technologies.

The projects completed in 2015 and preceding years, as part the separate increases of raw materials (vacuum distillation, of our ongoing programme to improve the energy efficiency pyrolysis units) and the increase of the processing conditions of the refinery (new furnace for thermal pyrolysis unit), as for the quality upgrade of products (naphtha reforming, well as the expansion and upgrading projects (new Crude isopentane distillation). These particular choices are mainly Distillation Unit, with special emphasis on reducing energy due to the international circumstances regarding the prices consumption, use of new generation catalysts in Sulphur of products and the general instability of prices. Recovery Units, introduction of natural gas into refinery fuel mix, replacement or major maintenance of gas turbines, Nevertheless, we stand by our commitment for constant upgrading or replacement of pre-heat furnaces, increase in decrease of energy consumption, which is apparent in the condensate recovery rate, installation of Advanced Control following diagram, where the specific energy consumption in 2015, compared to 2009, dropped by 22.7% (2.49 TJ per System, maintenance and upgrading of the steam trap thousand tonnes of raw materials, compared to 3.22 TJ). network, installations of new exchangers to maximize heat recovery, etc.), in combination with systematic monitoring of energy efficiency and preventive maintenance programmes - all these have contributed to the achievement of a steady reduction in the refinery's energy consumption. The reduction in energy consumption has been achieved despite the increase in volume of production. Both the overall energy consumption and consumption per ton of raw material increased in 2015. This is due to factors such as consumption of alternative raw material (naphtha instead of gas) in the hydrogen production and catalytic pyrolysis units, as well as



- feasible and financially viable environmental protection policies. In this context we participated in the national research projects SIMPLE and HYDROSOL PLUS to promote research and develop cutting-edge technology in the area of climate change.
- Reporting our actions and results to all stakeholders.



#### **USE OF NATURAL GAS**

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Introducing the use of natural gas to the refinery in 2008 was an important step towards reducing its energy footprint, while also improving financial and environmental results, given that the use of natural gas usually reduces CO<sub>2</sub> emissions and is the economically most efficient way of generating electricity and producing hydrogen.

Natural gas is used:

- As an alternative raw material for the hydrogen production unit (instead of naphtha or LPG), which allows the quantities of carbon dioxide emitted to be reduced by approximately 8% and 19%, respectively.
- As an alternative fuel for the Power Cogeneration Plant gas turbines, instead of either fuel gas or propane, achieving a reduction of carbon dioxide emissions by as much as 16%.
- As an alternative or supplementary fuel for the refinery's pre-heat furnaces and steam boilers in the place of heavy fuel oil fractions, thus both increasing energy efficiency and significantly reducing emissions of air pollutants

#### POWER AND STEAM COGENERATION PLANT

The Cogeneration Plant, following completion of installation of the new turbine in 2011, now includes five gas turbines, with a total active power of 85MW, and three boilers recovering heat from the exhaust fumes generated. These boilers generate about 140 tons of high and low pressure steam per hour, making the refinery self-sufficient in electricity - as it eliminates the need to draw power from the Public Power Corporation grid - and meeting most of its need for steam. The operation of the Plant also contributes to the reduction of greenhouse gas emissions at a national level by drastically

reducing electricity consumption from the national grid, the production of which would require a different fuel mix. Moreover, heat recovery and steam generation at the refinery reduce the use of boilers

The resulting benefit for the environment - in terms of lower CO<sub>2</sub> emissions due to own generation of electricity - is indicated in the table below:

## **22.7%** LESS ENERGY PER TON **OF RAW MATERIALS IN 2015 THAN** IN 2009

In addition, the Power Management System (Best Available Technique), which was upgraded in 2011, protects the refinery from partial or complete shutdown owing to a failure of the internal or external power network, significantly increasing the level of safety and reliability, thereby improving environmental efficiency.

#### A٧

VOIDING CO2 EMISSIONS (TONS) BY COGENERATION OF ELECTRICITY AND STEAM						
2012	345,000					
2013	336,000					
2014	332,000					
2015	310,000					

#### UPGRADING OF PREHEATING FURNACES AND BOILERS

The upgrading of the furnaces is intended to ensure more The Advanced Process Control system, through continuous effective use of the heat from the exhaust fumes, thereby monitoring, achieves the optimisation of energy use in the reducing consumption of fuel, CO<sub>2</sub> emissions and emissions units, where it has been installed. The APC system is fully of other atmospheric pollutants. A rolling programme is operational for the crude distillation units and is now in active under way to upgrade the refinery furnaces, introducing use at the catalytic pyrolysis units, the vacuum distillation forced draft technology – which increases the efficiency of a units, the hydrocracker and hydrogen production units and furnace by more than 6% – and replacing the existing boilers the Diesel hydrodesulphurization units, making a significant with new, more energy efficient boilers emitting less NOx. contribution to optimizing operations and providing direct For example, upgrading of the crude oil preheating furnace control of their most important operational parameters. (the refinery's largest) at the Crude Distillation Unit in 2007 Automated sulphur analysers have also been installed and resulted in an increase in thermal efficiency from 80% to 87%. are used by the APC, to accurately adjust the processes and minimise energy consumption.

In mid-2014, with the completion of upgrading of the Visbreaker unit, a new improved-efficiency pre-heating With the same aim, the refinery's preventive maintenance furnace was installed, allowing a saving of up to 30% in fuel programme provides for: use compared with previous years. • The systematic re-tubing, repair and cleaning of heat

Moreover, in 2015 the study for the replacement of the furnaces of the vacuum distillation unit was launched, with an anticipated decrease in the consumption of fuel of the unit, which corresponds to a decrease of the overall consumption of the refinery.

#### **RECOVERY OF GASES AND CONDENSATES**

The recovery of condensates, which are then used in the steam boilers to produce steam, was maintained at high levels. Using the energy content of the condensates means reducing the gas and liquid fuel required to generate steam in the steam boilers.

Continual care is also taken to maximize recovery of gases, so that they can be used as fuel and their combustion in the flare minimized.

#### DESALINATION

Desalination of seawater, using reverse osmosis technology is the most energy-efficient method. Extensive use is made of this technique, with four units in operation (the most recent was installed in August 2013).

#### MONITORING AND DAILY PRACTICE

The energy performance of production units is constantly monitored, so as to correct any malfunctions that come to light



- exchangers and air coolers in order to increase the percentage of heat recovery.
- Replacing, through annual programmes, of pipeline and equipment insulation, thus minimizing losses to the environment.
- The maintenance and/or replacement of rotating equipment, whose energy performance has fallen below specified levels, as a result of length of use.
- · Repairing and/or replacing of the refractory material, burners and tubes of pre-heat furnaces.
- The installation of separate meters on the flare system is under way, in order to continuously monitor and avoid the loss of carbon, with a direct impact on the decrease of CO<sub>2</sub> emissions.

### 5.2 CO<sub>2</sub> EMISSIONS

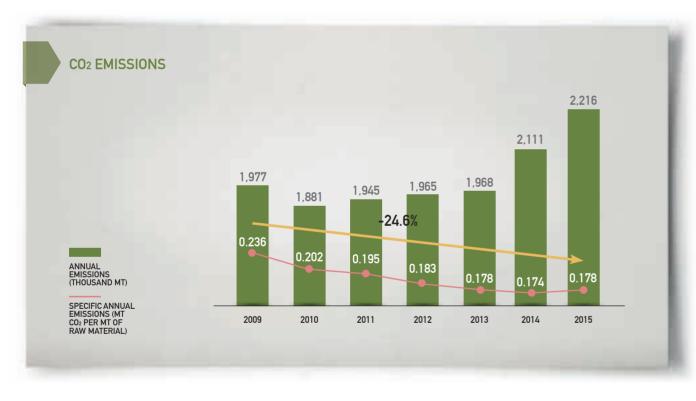
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2015 was the third year of implementation of the new system for monitoring emissions of greenhouse gases, for the period 2013-2020. Apart from the need to reduce CO<sub>2</sub> emissions, this phase of application will also be subject to rigorous specifications relating to accuracy of measurements and assessment of their relative uncertainty.

In order to comply with these requirements, MOTOR OIL:

- Uses the appropriate methodology to monitor CO<sub>2</sub> emissions from its facilities, the methodology resting on methods of calculation based on flow analysis measurements and analyses of fuel quality.
- Calculates at the refinery chemistry laboratory certified to EN 17025:2005 standards – the quantity of carbon contained in the refinery gas fuel using the gas chromatography method.
- As required by legislation, submits to the competent ministry annual reports on CO<sub>2</sub> emissions, which are verified as to their reliability and validity by a certified external agency.

## 24.6% FEWER CO2 EMISSIONS PER TON OF RAW MATERIAL **IN 2015 THAN IN 2009**

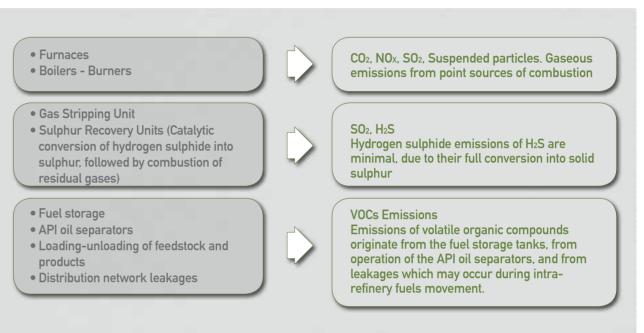


Total CO<sub>2</sub> emissions for 2015 were 2,216 thousand tons. This year we see an increase of total emissions and a slight increase of emissions per ton of raw material. This is mainly due to the stricter method for calculating emissions, as imposed by international laws. Specifically, in 2015 the calculate coefficients were increase due to combustion of solar energy. liquid fuel, resulting in an increase of CO<sub>2</sub> emissions from its combustion by 2.2%.

As part of our efforts to reduce CO<sub>2</sub> emissions we have been participating since 2013 in the national research project HYDROSOL PLUS, whose aim is to develop cutting-edge technology for the use of industrial waste streams rich in CO<sub>2</sub> as sources for the generation of fuels with the use of

# 6. AIR QUALITY MANAGEMENT

It is a fundamental duty of our company to assure air guality at and around our refinery. Our commitment to ongoing improvement in this area is not just a response to legal obligation; it is also required by implementation of the principles of Corporate Responsibility we have adopted, which mean that we regard atmospheric quality as an important issue.



#### **EMISSIONS MONITORING**

To protect and improve air quality, air pollutant emissions are cracking and Lubricants complexes are continuously monitored using a wide range of techniques; state of- the-art monitored by online analysers. The parameters monitored measurement equipment is employed. The measurement are: concentrations of oxygen, nitrogen oxides, sulphur programme, including continuous as well as intermittent dioxide and suspended particles, as well as temperature, readings, covers both point and diffused emission sources. flow and pressure of flue gases.

In the peripheral zone of the refinery, air quality is monitored at four stations:

- Three fixed monitoring stations are capable of continuously measuring the concentration of hydrogen sulphide (H<sub>2</sub>S) and sulphur dioxide (SO<sub>2</sub>).
- A mobile station equipped with automated state-of the-art measuring and recording devices, which can perform a wide range of measurements, including meteorological parameters (wind speed and direction, air temperature and relative humidity), and the concentrations of nitrogen oxides (NO, NO<sub>2</sub> and NOx), sulphur dioxide (SO<sub>2</sub>), hydrogen sulphide (H<sub>2</sub>S), carbon monoxide (CO), methane, total hydrocarbons, hydrocarbons excluding methane (CH<sub>4</sub>, NMHC, THC), benzene, and particulate matter PM10.

Within the refinery flue gases from the stacks of the main combustion plants (point emissions) of the Fuels, Hydro-





As in the case of the main refinery stacks, the main pipelines channelling gases to the flares of the Combustion, Lubricants and Hydrocracking units are subject to continuous flow measurement.

At the Catalytic Cracking Unit there is continuous monitoring of the flow, humidity, pressure and temperature of the flue gases, the concentration of oxygen and carbon monoxide, of sulphur dioxide, of nitrogen oxides and of suspended particles. It should be noted that all analysers are connected to the refinery's Distributed Control System (DCS), a configuration that allows for the complete control of the combustion taking place in the furnaces.

Emissions from the refinery's other stacks are monitored every three months by a suitably accredited external organisation. An automated performance control system operates at the Sulphur Recovery units, which continuously monitors and records H<sub>2</sub>S concentrations at the entry points, and H<sub>2</sub>S and SO<sub>2</sub> concentrations at the exit points of these units. Also, the H<sub>2</sub>S/SO<sub>2</sub> ratio is continuously measured, recorded and adjusted, so as to ensure maximization of recovery performance (which is of the order of >99.5% in the case of the new, SCOT-type units). The smooth operation of the afterburners (incinerators) associated with these units is achieved through continuous monitoring of  $SO_2$  and  $O_2$  at the exit points, and of the temperature at the radiant section of the furnaces. Operation of both the Sulphur Recovery units, and the afterburners, is automatically controlled via the refinery's Distributed Control System (DCS).

#### Clean fuel - Integrated Sulphur Management System

Refineries are faced with the following paradox: the amount of sulphur in the available crude oil types is increasing over time, while the specifications for allowable sulphur content in the fuels produced have reached extremely low levels (e.g. for petrol and automotive diesel, the 2009 specification for sulphur content is a maximum of 10 ppm or the equivalent of 0.001%). Moreover, the maximum acceptable level of sulphur emissions is also low, since the content of sulphur dioxide in the atmosphere around a refinery, on an hourly basis, should not exceed 350 mg/m<sup>3</sup>. In this context, the removal of sulphur coming into the refinery with crude oil -at a concentration varying between 0.4 and 4.0%- is a significant challenge.

MOTOR OIL, as a responsible corporate citizen with respect for the environment, has in place a particularly effective system which incorporates Best Available Techniques, in order to achieve the best results, both in terms of maximising the degree of sulphur removal and minimising the amount of energy consumed.

In this way, and through the Hydrocracker Complex, MOTOR OIL produces and markets petrol and diesel with a sulphur content below 10 ppm.

This results in reduced sulphur emissions from the refinery, while the overall rate of hydrogen sulphide conversion into elemental sulphur in the new SCOT-type Sulphur Recovery units is in the order of 99.95%.

Elemental sulphur is initially produced in liquid form, which by cooling and appropriate processing, is converted to a solid granular form, stored in silos for sale as a raw material for the production of sulphuric acid and fertilisers. The whole process is carried out in a completely closed circuit, thus avoiding the dispersing of sulphur particles in the air, and minimising entirely any environmental impacts.

#### **Controlling emissions**

Apart from the measures to control concentrations of airborne pollutants, a range of measures has been taken within the refinery to limit atmospheric pollution, such as:

- Installation of an electrostatic filter on the outlet of the Catalytic Pyrolysis unit, intended to reduce emissions of suspended particles from the catalyst. This reduces total emissions of suspended particles to levels far below the permitted limits.
- Desulphurization of gases used as fuel in the refinery before they enter the gas fuel system, reducing emissions of sulphur dioxide.
- Installation of burners with low NOx emissions, both in the design of new furnaces and in the upgrading of old ones, in order to reduce their emissions. In this context, the new furnace of the thermal pyrolysis unit has incorporated burners with low NOx emissions.
- Furnace cleaning (with urea) in operation, aiming at increasing heat induction, saving fuel and decreasing fuel temperature.
- Installation of closed circuits in the gas processes, relieving pressure of gases by safety valves to the flares, placing of second-tier seals on floating-roof tanks, placing of floating tops on the oil separators and installation of a steam recovery system at the Tanker Loading Terminal, as well as measures to reduce emissions of hydrocarbon gases, in tandem with the implementation of the system of bottom-loading tankers.
- Installation of steam recovery units for loading of petrol at all Avin Oil and Coral facilities, as provided for in legislation, and at all service stations for use in unloading of petrol from tankers to tanks (in accordance with the provisions of Directive 94/63 (Stage I)).
- Bottom-loading of tankers.

#### LEAK DETECTION AND REPAIR (LDAR)

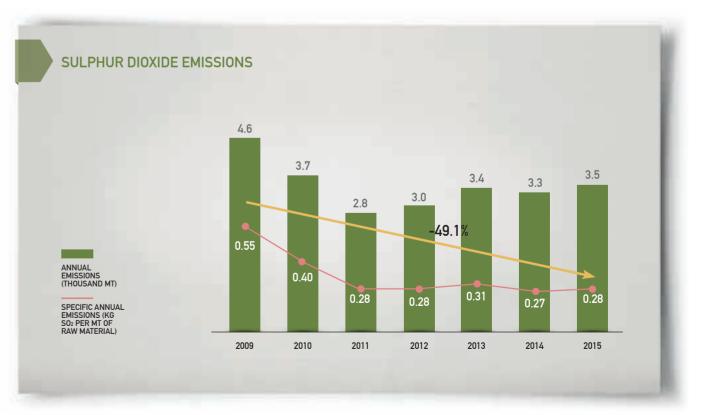
A modern refinery comprises many different types of installed equipment, through which large quantities of raw materials circulate, as well as intermediates and final products. In such a system, it is to be expected that there will be particular points with a higher risk of hydrocarbons being accidentally released into the atmosphere. In order to limit fugitive emissions from the equipment, a programme has been implemented featuring regular controls at selected points (better known as LDAR - Leak Detection and Repair) in order to identify and repair possible leaks.

Fugitive emissions may arise from leaks in valves, pumps, flanges and other related equipment installed on pipelines, pressure vessels, reactors or storage tanks.

In 2015, 6,171 points were inspected as part of the LDAR programme at the MOTOR OIL refinery, covering all production units, the Truck Loading Terminals, port facilities, storage tanks and oil separators. The various points were checked by refinery staff at least once a year, using portable equipment to measure volatile carbon concentration. In the event that concentrations are found to exceed 5,000 ppm, a repair request for the equipment checked is issued. In 2015 15,373 checks were carried out, identifying 3 points requiring attention.

#### IN NUMBERS

The diagram below shows total annual emissions of sulphur dioxide, as well as emissions per ton of raw material. In 2015, there was an increase of the total emissions and the emitted SO<sub>2</sub> value per ton of raw material compared to 2014. This increase is due to more general economic factors, which shaped the refinery's market in 2015, keeping natural gas prices at very high levels and leading many refineries to cut its use in their fuel mix in favour of other traditional fuels (fuel oil). However, the long-term downward trend remained, as did our commitment to achieve ever lower levels of emissions.





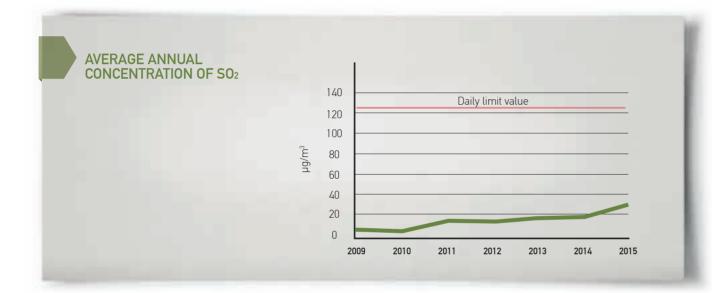
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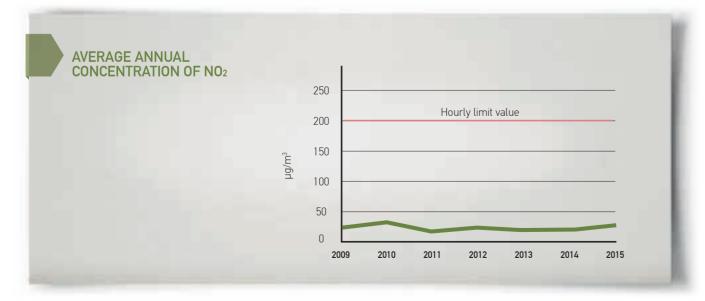
As far as air quality during 2015 is concerned, the processing of the recordings at the four air quality monitoring stations, in the context of the emissions monitoring programme, has shown, as in previous years, that air quality in the vicinity of the refinery remains highly satisfactory. Detailed figures for the last five years show that there has been no exceeding of the hourly limit values and daily levels permitted by legislation, and the recorded values are much lower than the limit values allowed

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The following diagrams show the average annual values of the last seven years for SO<sub>2</sub>, NO<sub>2</sub> and suspended PM<sub>10</sub> particles. We note that in 2015, the average daily concentration of suspended PM<sub>10</sub> particles exceeded the legal limits for 2 days (on January 31<sup>st</sup> and 1 February 1<sup>st</sup>) due to the meteorological conditions prevailing in the area (transfer of dust from Africa). These excesses, as set out by the environmental terms, were declared to the competent authorities.

## 49.1% FEWER SO2 EMISSIONS PER TON OF RAW MATERIAL **IN 2015 THAN IN 2009**





**AVERAGE ANNUAL CONCENTRATION** OF SUSPENDED 70 PARTICLES PM10 60 50 40 ng/m<sup>3</sup> 30 20 10 Λ 2009

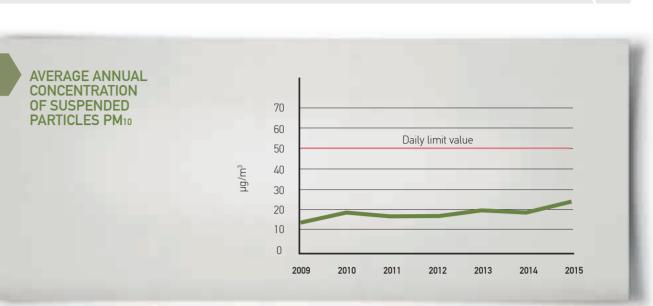
Further related information on control of emissions during 2015, can be found in the Environmental Statement 2015, which presents diagrams relating to all air pollutants.

## 7. LIQUID WASTE MANAGEMENT

Liquid waste produced by the refinery's various processes fall into two categories: industrial waste and urban waste.

The management and processing of liquid waste is a material The effectiveness of operation of the Industrial Waste Water issue for the company, which incorporates Best Available Treatment Plant is evidenced by the fact that concentrations Techniques, while due to their different pollutant load, the of various pollutant substances at the plant outlet are clearly industrial and urban waste streams undergo different types below relevant limit values. In the case of some substances of processing prior to their final disposal. Industrial liquid (including benzene, toluene, ethyl benzene, xylene and a waste is pre-processed and then taken to the Liquid Industrial number of heavy metals), their concentrations are very much Waste Treatment Plant, while urban waste is removed to below corresponding limit values, approaching the limits of the Urban Waste Treatment Plant. The residual sludge left detection in some cases. after the waste is processed, is dehydrated and compressed prior to final disposal, according to the approved refinery environmental terms.

PARAMETER		AVERAGE VALUE			
PARAMETER	2012	2013	2014	2015	VALUE
Supply (m³/day)	10,968	9,485	9,817	10,070	
рН	8.0	7.4	7.5	7.6	6-9
Temperature (°C)	24.1	25.4	25.4	27.5	35
Oil (mg/l)	2.5	2.2	2.5	2.1	10
BOD <sub>5</sub> (mg/l)	23.7	24.5	24.5	23.8	40
COD (mg/l)	104.6	104.9	106.0	105.3	150
NH3 (mg/l)	13.3	13.4	13.5	13.4	15
Phenols (mg/l)	0.3	0.2	0.3	0.2	0.5
Sulphurs (mg/l)	1.0	1.1	1.1	1.1	2
Suspended solids (mg/l)	17.2	16.7	17.7	19.0	40





 Monitoring and control of subsoil and aguifer guality, based on hydro-geological studies submitted to the Ministry of the Environment, Energy and Climate Change, takes place at 10 boreholes. According to the approved environmental terms, during 2015, two sets of samples were taken at these boreholes – one every six months- in order to determine the value of a number of parameters, such as concentrations of heavy metals and hydrocarbons, the results of which were found to meet legislative requirements.

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near the refinery. The study was conducted by the Applied Geo-Chemistry Laboratory of the Geology Department, University of Patras. According to the result of the study "the environmental conditions prevailing in the coastal area of the study, show the normal characteristics of a coastal area for the season of the measurements and are in line with the area's geomorphological characteristics".

• Sampling and measurements continued in 2015, to monitor conditions in the seawater of the coastal area

## 8. SOLID WASTE MANAGEMENT - RECYCLING

Management of the solid waste generated by refinery operations is a material issue for the company. Waste management is based on an integrated process, covering all stages in the life cycle of the waste in one of the following ways: or processing within the refinery and re-use; recycling outside the refinery; recovery outside the refinery; final disposal outside the refinery.

The main aims of the solid waste management programme are:

- · Reduction of quantities produced, at source,
- Separation into hazardous and non-hazardous waste at source, wherever possible,
- Maximum exploitation prior to final disposal, through recycling or re-use or recovery of useful components or regeneration, and finally,
- Safe transportation and final disposal without putting at risk human health or the environment.

Only licensed companies specializing in the handling of solid waste are used for carrying out disposal of such waste. Spent catalysts, which, depending on the particular case may be classified as hazardous solid waste, are disposed of in a number of ways (either exported, or regenerated for re-use by specialised firms abroad, or used in cement manufacture). Empty hazardous substance containers are also disposed of by licensed companies.

The company, as a solid waste producer, submits an annual report to the competent departments of the Ministry of the Environment and Energy, which records all types of solid waste arising from its operations and how solid waste is handled, while identifying the legally-approved recipients. As far as used lubricants and their packaging is concerned, contracts are in place with a firm specialized in used mineral oil recycling and with a firm specialized in handling packaging materials. These two contracts provide for recycling of used lubricants and their packaging, thus contributing to the protection of the environment and the rational use of raw materials. We also collaborate with accredited firms for recycling other categories of solid waste.

#### CONTAMINATED SOIL PROCESSING UNIT

In 2015 the contaminated soil waste treatment by the bioremediation method was completed and it was put into operation. The investment involved the construction of a unit for the processing of contaminated soil to allow its biodegrading using the biopile method, and the further management of the processed soil as non-hazardous waste.

The experience to date, based on the records of the biodegrading unit and the results of the analyses of approved external laboratories, showed that excellent results are achieved. The biodegrading product is

not only a non-hazardous waste, but in the majority of the controlled parameters in wash down tests, the results are lower than the limits for inactive waste. The processed waste, as a non-hazardous materials now, is made available to appropriately authorised management authorities.

With the above procedure, 388 tons of contaminated soil were processed and disposed in 2015.

Use of this method minimizes environmental impact, because:

- is generated, eliminating the risks that would arise during transportation to another site for processing.
- eliminated
- Mixing of hazardous and non-hazardous wastes is avoided.

RECYCLING AND/OR DISPOSAL OF SOLID WASTE (MT/YEAR)					
	2011	2012	2013	2014	2015
Batteries	11.3	5.2	4.5	11.1	1.04
Tires	8.1	7.1	4.0	2.9	0.7
Lubricants <sup>1</sup>	45.4	2.2	192.1	27.5	1.4
Wooden packaging	58.4	39.5	88.7	98.4	115.7
Paper and paper packaging <sup>2,3</sup>		38.3	156.6	171.8	203.0
Plastic and plastic packaging		44.1	228.2	233.4	214.8
Metal (scrap)		1,000	1,431	1,597	2,198
Electrical/electronic equipment		1.2	0.9	5.7	1.9
Contaminated soil		0	0	0	403.4
Contaminated packaging		27.1	20.6	13.8	8.7
Asbestos-containing materials		13.3	0	0	12.7
Printer cartridge packaging (items)	949	2,183	369	825	712
Exhausted catalysts for recycling	0	44.3	1,133	2,818	2,747

1. These quantities refer to the refinery alone, since corresponding reliable figures for the AVIN OIL and CORAL retail networks are not available.

2. Recycled and non-chemically bleached paper is being used by all the companies of the Group.

3. Money raised from paper and toner cartridges recycling at the Group Head Office is donated to the "ELPIDA" Foundation.

#### REPROCESSING OF RAW MATERIALS

The various stages of refining create by-products with specifications that deviate significantly from the desirable ones, in which case it is necessary to reprocess. The effort made, is towards the direction of utilising them as much as possible in later stages of refining, in order to minimise the consumption of energy and the capacity that is committed for reprocessing. The goal is to restrict the overall reprocessing to the crude oil units. The guantities that were reprocesses are presented below:

#### REP

ROCESSING OF RAW MATERIALS (MT)					
2012	56,600				
2013	87,300				
2014	64,700				
2015	88,200				



• It is a Best Available Technique, which allows processing of hazardous waste at the place where the waste • The basic pollutants (petroleum-based substances) are processed efficiently, eventually being completely

 No hazardous substances are used, nor is there any need for significant consumption of water or energy. • Suitable techniques are used to avoid contamination of the ground, sub-soil, water table or atmosphere.

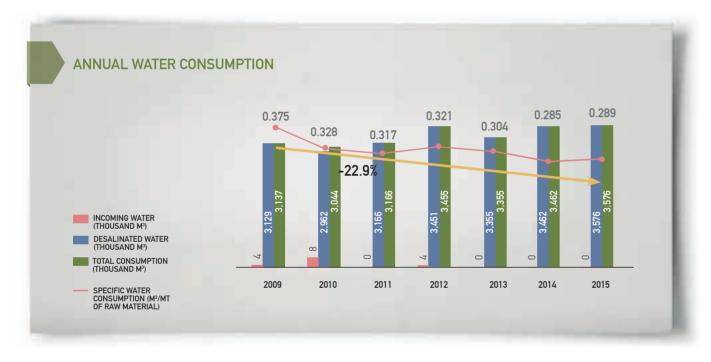
#### 9. WATER MANAGEMENT

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MOTOR OIL views water resource management as a material issue and has consistently implemented measures to reduce and rationally manage water consumption at its refinery.

The water used in the various parts of the refinerv is sea water processed at desalination units. The desalination is effected using both Multi-Stage Flashing and Reverse Osmosis techniques, the latter being the preferred method from an at 0.289 cubic metres of water for each ton of raw material. environmental and economic perspective. The refinery's This good performance is due to the major efforts made by desalination system has 3 MSF units and 4 RO units. This system allows full coverage of the refinery's water needs, eliminating the need to purchase additional fresh water on the open market.

It should also be noted that since 2008, the refinery has been steadily reducing the quantity of water consumed for each ton of raw materials, with this value at the end of 2015 standing the company and the substantial investment in projects to improve energy efficiency at the refinery (reduction of steam consumed, operational improvements, etc.).



#### **RE-USE AND RECYCLING OF WATER**

One of the important processes at the refinery is the processing of the acid water flows generated in different phases of the production process, in order to remove hydrogen sulphate and ammonia. About 35% of this water flow is recycled to feed the crude oil desalinators, while the rest is channeled to the Industrial Waste Water Treatment Plant, allowing a proportional reduction in consumption of fresh water and in the volume of wastes needing treatment.

#### **10. NOISE MANAGEMENT**

Noise caused by industrial facilities, such as the refinery, is a natural and unavoidable consequence of the activities taking place. MOTOR OIL makes every effort possible to reduce environmental noise levels at the boundaries of the installation and thereby limit the nuisance caused to those living around the refinery, carrying out measurements at regular intervals at set points around the facility and taking a number of measures.

Results of measurements for 2015 are set out in the table below and show that noise levels are lower than the legal limits laid down in the environmental operating conditions of the refinery.

	AVERAGE MEASUREMENT FOR FEBRUARY 2015 (DBA)	AVERAGE MEASUREMENT FOR JUNE 2015 (DBA)	AVERAGE MEASUREMENT FOR OCTOBER 2015 (DBA)	LEGAL LIMITS (dBA)
Perimeter of refinery facility	54.7	54.4	54.6	65.0
Southern refinery perimeter	52.3	53.1	52.2	55.0

Particular care is also taken with the new projects being carried out at the refinery. In the design of each new project special measures are taken, such as the installation of silencers, the placing of sound curtains and the procurement

# 11. PROTECTION OF THE MARINE ENVIRONMENT

Due to its location, the operation of MOTOR OIL's refinery is completely linked with the marine environment. Owing to the extensive impacts of a potential pollution incident, both for the marine ecosystem and the economic and social life of adjacent areas, as well as the tremendous expense that rehabilitation would involve, extensive prior planning and preparation for prevention of, and successfully responding to such incidents is imperative.

It should be noted that no parts of the refinery abut on natural habitats or protected areas which might be affected by its operations.

In this context MOTOR OIL

- Implements all necessary active and passive protection measures to minimize the risk of oil spills during the operation of its refinery. In 2015 not a single leak was reported.
- Implements all necessary measures and provides all equipment for the safe sail-in and sail-out of tankers at its port facilities, as well as for the safe loading/unloading thereof.
- Keeps on hand all necessary equipment for response to a small or medium-scale local contamination incident (Tier-1/2). It also keeps on hand a stock of oil slick dispersant, which can be used only with the consent of the Port Authorities



of equipment with low noise emissions, in order to add as little as possible to the overall noise pollution caused by the refinery.

- Checks the readiness for implementation of the existing anti-contamination plans and maintains a high degree of readiness among staff to use the equipment involved, with an annual programme of drills. It should be noted that the scenario in the above drills involves more general refinery safety issues as well as security issues for the port and vessels
- Is a member of international and regional organizations, whose aim is the prevention and timely response to oil spill incidents (see Participations - Collaborations section in chapter 1).

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# SOCIAL RESPONSIBILITY

# 482.2 **MILLION EUROS**

FOR THE SOCIAL PRODUCT

# 36.6

**MILLION EUROS** IN SOCIAL RESPONSIBILITY PROJECTS AND SPONSORSHIPS IN THE PAST 10 YEARS

**MILLION EUROS** FOR 2015

We stand side by side with the community, offering consistent and long-lasting support.

Our standing objective is to follow a course of constant growth and creation of value for all stakeholders, effectively playing our social role, and increasing our contribution to society.

Our sense of responsibility to society is expressed, first and foremost, through our contribution to the general recovery and consolidation of our nation's economy. It is of vital importance to us that our activities should benefit the society in general, by way of direct and indirect job creation, fostering local entrepreneurial activity and purchasing goods and services from the domestic and local suppliers.

Moreover, we wish to see all our business activities interact positively and productively with the social environment in which we operate. It is for these reasons that the Motor Oil Group implements a program of donations and sponsorships, addressed directly to local communities, designed to help improve quality of life, protect the environment and foster a healthy social and cultural life in local communities and across the country as a whole.

It is one of the Group's strategic objectives to bring prosperity to the communities around or in the general area of its refinery and the facilities of its commercial companies through job creation, support for the local market, and general social care.

Finally, according to the supplementary indices of the Oil & Gas Sector, our Group does not operate in areas where there are native populations, or where such populations might be affected by our activities, nor were there any significant disputes, involuntary movements of personnel or other impacts on local communities or native populations in 2015.

## 1. ECONOMIC BENEFITS TO SOCIETY - SOCIAL PRODUCT

The overall scale of the Group's operations, combined with its consistent focus on steady growth, result in a very significant contribution to the country's economic development. This contribution, based on our successful business activities, is made through the generation of value, the creation of jobs and our contribution to social progress and cohesion.

Our operations in the critical energy sector reduce our euros were used to purchase crude oil, other raw materials country's dependence on foreign sources of petroleum products. Moreover, our interaction with stakeholders creates a justifiable amount given the nature of Group activities. primary value for their benefit and secondary value too, in that it contributes to the value they in turn generate for the economy and for society as a whole.

and finished products. This represents 86.5% of revenues.

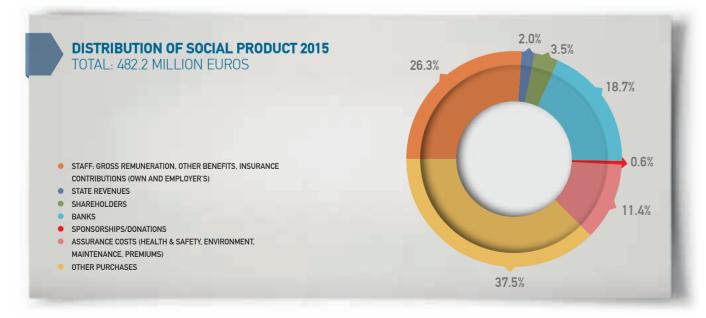
In 2015, the Group's total revenues from economic activities amounted to 7.511.8 million euros. Out of these, 6.497.5 million

# 482.2 MILLION EUROS SOCIAL **PRODUCT IN 2015**

SOCIAL PRODUCT 2015 (MILLION EUROS)				
2011	499.1			
2012	512.6			
2013	454.7			
2014	435.9			
2015	482.2			

The Social Product is that part of our income allocated repairs and preventive maintenance. to selected stakeholders, i.e. the workforce, the state, shareholders, banks, suppliers (not including suppliers of crude oil, other raw materials and finished products), as well as at large (donations and sponsorships). It also encompasses the cost of securing operations, including expenditure for Health, Safety and the Environment, insurance of facilities,

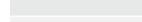
Based on the above, the Social Product returned to stakeholders in 2015 amounts to 482.2 million euros, while the amounts given back in previous years can be seen in the following table:





#### SUPPORT OF LOCAL ENTREPRENEURSHIP

As the largest enterprise and employer in the Prefecture in neighbouring municipalities). Moreover, the company of Corinth, MOTOR OIL makes a direct or indirect financial supports local initiatives to encourage entrepreneurship. contribution for a large number of businesses and families in the region (approximately 600 refinery employees live We have a policy of preferring local businesses when it comes



OTOR OIL (HELLAS)

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to supplying the refinery with services, consumables, food, etc. - even when there are financially more advantageous offers from outside the area. In 2015 we spent 10.6 million euros, thereby providing further support to the economy of

Corinth and the surrounding region. We further paid roughly 1.2 million euros in municipal and property taxes.

## 2. CUSTOMER SERVICE AND RESPECT

All the MOTOR OIL Group companies operate having customer service as a top priority. The Group's long experience and high level of expertise, and its rigorous insistence on high quality, guarantee comprehensive, integrated service and ongoing development of relations of trust with customers and associates.

#### THE REFINERY

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MOTOR OIL conducts guantitative and gualitative customer satisfaction surveys covering the full spectrum of its clientele. This aims at establishing an objective view of their level of satisfaction, by obtaining feedback about their perception of the guality of services rendered, and their overall impression of its corporate image.

The basic objectives of these surveys are:

- Assessing customer satisfaction.
- Evaluating the importance of the entire range of MOTOR OIL's individual services.
- Determining aspects of current products, services and provisions that require improvement.
- Determining the criteria applied by those selecting MOTOR OIL as a supplier, and assessing their impression of MOTOR OIL's image as a supplier.

Survey data are evaluated, with a view to building on the company's strengths and to detecting in particular the company's weaknesses and taking appropriate corrective action, thereby demonstrating the customer-focused nature of the company's strategy. Over time this process has led to a reduction in the number of complaints about the refinery; in 2015, there were just 2 complaints, on quality issues which were successfully resolved.

#### **OUR COMMERCIAL COMPANIES**

The Group's commercial companies have integrated systems for serving the thousands of customers who place their trust in them every day.

More specifically, they have full guality and guantity control systems for their fuels, carried out at all stages of transportation from the refinery or the depot to the retail stations. With the support of our specialised chemical laboratories, as well as the special vans which carry out unannounced checks at our retail stations, we take active steps to ensure the quality of our products.

In 2015, the companies Coral, AVIN OIL and Cyclon continued using their state-of-the-art mini-vans, which travelled around Greece carrying out thorough quantity and quality controls. These are usually unannounced and cover all the companies' retail stations. In 2015. 2.220 visits were made to the Group's retail stations all across Greece.

Moreover, once a year, our companies carry out a market research on a large sample, collecting and evaluating data on levels of service, fuel quality, customer selection criteria, etc. In addition, Shell service stations are also subject to inspection by unannounced visitors in the Mystery Motorist programme operated worldwide by Shell. The scheme allows evaluation of the level of service and customer satisfaction using a questionnaire covering such areas as efficiency, service, cleanliness and speed of transactions. In 2015, some 2,400 secret visits were carried out at Shell service stations. The results of these are presented to Coral's Retail Sales Department, which in turn discusses them with the retail station managers and takes corrective measures where necessarv.

Customers can now express their opinion through Voice of Customer, an innovative online consumer survey application, through PC and mobile phone, where customers can give their opinions after a visit to a Shell gas station. This platform generates about 4,000 filled in guestionnaires each month, giving us the opportunity to guickly analyse the results and resolve any problems our customers may encounter. Finally, the Egnomi tool was launched in 2015, which is used to easily and quickly collect consumer opinions on-site at the gas station, based on guestions appearing on devices. The Egnomi application provides more than 45,000 answers every month, giving the company the opportunity to be informed about customer satisfaction in detail and per gas station. All these measures, in combination with the groundbreaking technology of the molecular marker in all differentiated Shell fuels, and the special Smart Ring for deliveries of heating oil to homes and diesel to vessels, mean that customers can

feel absolute confidence in Shell fuels, in terms of quantity for all domestic and professional liquefied gas applications. Finally, all our companies have integrated customer service and guality. systems, using call centres and e-mails. Our customer service Coral Gas aspires to be the leading company in Greece and is centres deal with more than 350,000 calls each year, also responding guickly and flexibly to several thousand requests continuing efforts to offer innovative products to its customers. In 2014, after two years of research, it introduced a special from customers and final consumers.

internal safety valve on its LPG cartridges. It therefore now distributes all its packaged products to the market with special safety valves (the traditional liquefied gas bottles with FLV, GoGas with triple security and the new container with an ILL Flow Limiter Valve) significantly raising the level of safety and protecting the consumer by applying the latest solutions

# **3. SOCIAL SOLIDARITY AND SPONSPORSHIPS**

Through our social responsibility projects we seek to demonstrate a steady, consistent support for the community, providing support for values which will improve the life of the community - in education, health care, culture, sports and entrepreneurship.

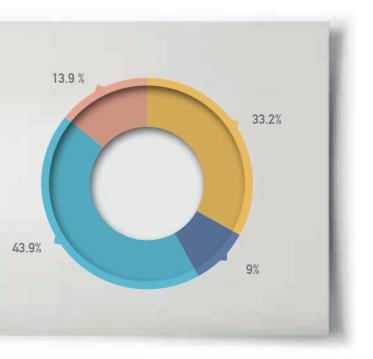
In 2015, as in previous years, our company's social action The actions we have supported were chosen by the relevant focused on the financing and promotion of social solidarity executives of the company at the local and central levels, in programs across the country, though our primary focus accordance with the procedures set out in the relevant policy was placed on organizations and agencies based mainly and in implementation of our strategy for social responsibility. in municipalities in the vicinity of our facilities. Our main which is structured along the following key axes: objective was to relieve poverty among the most vulnerable Social solidarity social groups, and to help them meet their basic needs. To Culture this end, we have promoted actions designed to bring relief • Youth - education, culture to our fellow citizens, while also supporting cultural agencies, educational institutions, organizations engaged in charitable and humanitarian work, as well as local government agencies.

#### **ALLOCATION OF SOCIAL RESPONSIBILITY FUNDS 2015**

SOCIAL SOLIDARITY CULTURE YOUTH (EDUCATION, SPORTS)

HEATING OIL

OTOR OIL (HELLAS)



#### **3.1. SOCIAL SOLIDARITY**

Our company's objective is to promote and support actions designed to relieve the needs of less advantaged social groups. To this end, the company offers help to agencies that have demonstrated significant work in this area over a number of years.

We have provided support for many community actions, provided food for the indigent through municipal and church organizations, supported the work of charitable organizations and foundations, supported actions for health and supplied large quantities of heating oil to the municipalities bordering on our refinery facilities and other selected areas across the country.

#### FIGHTING POVERTY

The economic crisis affecting Greece over the last few the Prefecture of Corinth, the final recipients including the years has had as a direct result, a dramatic increase in Municipality of Loutraki-Agioi Theodoroi, the Municipality cases of poverty. In response to this need, our company has of Corinth and bordering communities, members of poor undertaken to support the most vulnerable social groups, families, associations, and societies providing support both by supplying the neediest with staple goods, and by services, and so on. specific grants of money. Actions have focused mainly on

#### THE FOOD BANK

The Motor Oil group has supported the Food bank operating in the Municipalities of Loutraki and Corinth and in the Municipal Ward of Agioi Theodoroi, playing an active part in meeting the basic needs of families in financial difficulty.

Among other things, our company has provided foodstuffs, helping to ensure the continued operation of an institution responding to the difficult social and economic challenges of the present day. The donation by the Motor Oil group has helped the more general endeavor, through which more than 1,700 families in financial difficulty have found relief.

Additionally, in an effort to help families facing financial difficulties in Corinth and the surrounding region during Christmas and Easter holidays, MOTOR OIL distributed 1,340 food stamps to help them meet nutritional needs and put food on the holiday table. During the holiday period also financially supported, against through donations in the region and municipality of Corinth, the municipality of Loutraki, the municipal wards of Solygeia- Saronikos, Isthmia, Agioi Theodoroi, to the "Agia Olympias" foundation, the "Kivotos tou Paidiou" children's charity, churches, etc. The company has also supplied foodstuffs to the food and clothing bank set up in 2013 by the Metropolitan Church of Corinth, which supports 140 families in great need, and has also helped the Agioi Theodoroi Farmers' Cooperative to meet the needs of children from indigent local families. Finally, it supported the charity work of the Holy Metropolis of Lampi, Syvritos and Sfakia.

#### DONATION OF HEATING OIL AND LUBRICANTS

During the winter of 2015, the company made available around 345,000 litres of free heating oil, worth 275,000 euros.

This social programme is intended to help with the cost of heating orphanages, nurseries, municipal childcare centres, secondary schools, elderly people's homes, churches and church foundations located in areas bordering on the refinery, as well as other recipients in other parts of the country. Among the recipients were the Hatzikyriakio Childcare Institution, "the Foundation of Thracian Art and Tradition, all schools in the Municipalities of Corinth and Loutraki and

the municipal communities of Agioi Theodoroi, Isthmia, Saronikos and Solygeia, 20 schools in the Municipality of Perama, the Corinth Fire Brigade, police and traffic police departments, churches, etc.

We have also supplied lubricant oils to government services in the Municipality of Corinth and the surrounding region. The main recipients were the Corinth Police Department, the Loutraki Police Department, the Kiato Highway Police, the Attiki Odos Highway Police, the Corinth Port Authority, etc.

#### SUPPORTING CHARITABLE ORGANIZATIONS AND INSTITUTIONS

Our objective is to make a contribution to improving living conditions for people with problems, helping organizations and foundations which offer high-guality services to assist them in their rehabilitation and reintegration into the community. Specifically:

- We have supported the activities of the Marianna V. Vardinovannis Foundation. Set up by its President, UNESCO Goodwill Ambassador Mrs Marianna V. Vardinoyannis, the Foundation seeks to promote issues related to protection of children's rights, while improving living conditions for children in all areas.
- We supported with a fuel sponsorship the non-profit organisation "+plefsi". Its purpose is to support and improve the living conditions of the residents of remote Greek islands.
- We have supported the humanitarian agency Lifeline Hellas, helping with the organization of an event, the revenues

#### SUPPORT FOR THE ELDERLY Food for elderly groups in need

For more than ten years, Motor Oil has been continually engaged in a very important social initiative in collaboration with the elderly Day Care Centres of the Municipalities of Corinth and Agioi Theodoroi. The initiative involves the provision to elderly people of a full lunch and milk and yoghurt for supper - supplied every day, 365 days a year. The food is prepared at the refinery canteen, and is the same meal that is enjoyed by the refinery workforce.

In 2015 the refinery canteen provided meals for 98 elderly people at the Corinth and Agioi Theodoroi elderly people's Day Care Centres.

#### SUPPORT FOR LOCAL AUTHORITIES AND OTHER AGENCIES

The Group has traditionally supported the local communities it operates in. To this end, we do our best to provide effective assistance, meeting the needs of local authorities and actively helping them in their work.

In 2015, the Motor Oil Group donated to the Fire Brigade new fire-fighting suits, to help them meet their urgent needs in personal protection gear. We also offered a new vehicle to cover the needs of the Loutraki Police Station, thereby assisting them to operate more efficiently.

We have provided financial assistance to the Local Improvement Society "Klara Elias" of Sousaki, to cover the expenses for a club and a 5x5 football field for the community.

MOTOR OIL provides support to many environmental Our company was the sponsor of the Panhellenic Energy associations and organizations (MEDASSET, etc.), making



of which will be used to offer medical equipment to the Neonatal Intensive Care Units of state hospitals.

- We have provided financial support to associations and agencies involved in community work, such as the Women's Association of Agioi Theodoroi, the Evaggelismos tis Theotokou Church of Agioi Theodoroi, the association "Transparency International Hellas", etc.
- In the area of health care, we assisted the work of researchers at the Virology Department of the Agios Savvas Hospital, who are studying cases of cancer caused by viruses. We also supported the radiation laboratory of the Kouloureio Hospital "Panagia Faneromeni" in Hydra, with the donation of one teleradiology device, as well as the Greek Cardiology Institute with financial assistance in the free testing program that was offered during the Cholesterol Check-up Month.

Federation for the publication of the "60 years Panhellenic Energy Federation" album, narrating the history of the sector through photographs and other historical material.

The Group supported the Vardinovanneion Eye Institute of Crete by contributing to the operating expenses of the laboratory that belongs to the University of Crete.

#### THE ENVIRONMENT

We support activities and programmes, which make an active contribution to improving infrastructures and raising public awareness of environmental protection and sustainable development issues.

an active contribution to policies promoting environmental protection.

MOTOR OIL has also provided consistent support over the years to the Agioi Theodoroi Forest Protection Society, which plays an important role in forest protection and fire fighting within and beyond the Municipality of Agioi Theodoroi.

It further supported in 2015 the Kythera Foundation for Culture and Development, through the "Trails Programme", that lays down and promotes hiking trails according to international specifications.

In respect of water supplies, the company this year met the water needs of about 190 homes near the refinery. The water, produced at the refinery by reverse osmosis, is used to water gardens and for cleaning purposes. The supply of water to these houses, not provided by the Agioi Theodoroi water system, relies on the network of pipes laid and maintained by MOTOR OIL. In 2015, 92,000 cubic metres of water, worth more than 100,000 euros, were supplied free of charge.

#### **3.2. CULTURE**

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We believe in the role of the arts, culture and history as main components of a healthy social development. We strive to offer support to activities which highlight and promote our cultural and historical heritage.

- During the year 2015, our company provided financial assistance to various agencies, including the Federation of Local Improvement Societies of Agioi Theodoroi, the Local Improvement Societies "Glvkia Zoi". "Ano Glvkia Zoi". Ano Sousaki and "Klara Elias" of Sousaki, Corinth, the "Aris Local Improvement Society" of Isthmia, the Panorama Society of Kinetta, the Agioi Theodoroi Residents Association, the "Protoporos" Society, the association of voluntary workers of Agioi Theodoroi, etc.
- The company also made donations to support the work of organizations like the Loutraki Cultural Association, the Isthmia Cultural Association, the "Ta Sfakia" Music and Dance Society, the Chanting Workshop of the Municipality of Corinth, the Cultural Association "To Prathi" of Agioi Theodoroi, the "Agios Pavlos" Cultural Association of Kechries, the Federation of Associations of Residents of Agioi Theodoroi, the "Kalyvizes" Improvement Society, the "Psiloreitis" Association of Cretans of Corinth etc.

The financial aid we provided consisted in donations for functional needs, indoor and outdoor spatial reconfiguration projects, building maintenance, road completion and clearing, road surfacing, lighting, water supplies and rainwater drainage pipes, cement laying, covering fixed expenditure, advertisements, safety and creation of children's recreation grounds, and so on.

- Our company also made a significant donation to the Cretan Centre, helping it tackle real financial difficulties and thereby playing an active part in supporting its invaluable work for Cretan students in financial trouble.
- We also supported the Pancretan Association, as we do every year, providing financial assistance to help it organize its children's festival.

- The Group was the exclusive sponsor in the publication of the book "History of the Hellenic Navy" that records a very significant piece of Navy history, which had not been systematically researched to date.
- At the same time the Group supported the Association of Emigrants from the Region of Sfakia and the Goulandris Museum of Natural History by buying invitations.
- It also supported the journal "Periplous Naftikis Istorias" [A Voyage through Maritime History] published each guarter by the Greek Maritime Museum, and assisted the Hellenic Maritime Association in publishing its journal "Naftiki Ellas" [Maritime Greece], a traditional maritime magazine published every month by the Naval Print Shop since 1928.
- The Group was also a sponsor in the TedX Anogeia conference organised on the peak of Psiloreitis Mountain. where innovative ideas and their application in the field of science and culture were discussed

Throughout the year 2015. MOTOR OIL has provided support to local newspapers and magazines in the Municipality of Corinth and Loutraki, which are having difficulty in meeting their publishing costs, as well as supporting radio and TV stations

The MOTOR OIL Group has provided financial support for associations and agencies not just in communities near its facilities but elsewhere in Greece as well

#### INSTITUTE FOR THE PROMOTION OF JOURNALISM

The Institute for the Promotion of Journalism was founded by Nasos Botsis and has been engaged in important and valuable work since 1980. Its activities include the conferring, every year since 1982, of Journalism Awards, presented by the President of the Republic at a special ceremony. In order to contribute to promoting the institute, the Motor Oil group has acted as a sponsor, providing financial support for its invaluable social, cultural and educational work

#### **3.3. EDUCATION AND YOUTH**

We provide consistent support in the sphere of education, support which reflects our belief in the power of knowledge to cultivate our minds and characters and to turn us into active citizens heeding the call of conscience. It is for these reasons that we take such a keen interest in assisting and promoting the work of education, research and technology.

In 2015, the MOTOR OIL group:

- Supported the student group from the School of Chemical Engineering of the National Technical University of Athens by covering the expenses of their trip to participate in the Harvard World Model United Nations Conference.
- Provided assistance to the 1st and 2nd Kindergartens, the 1st Primary School, the Junior High and General Senior High School of Agioi Theodoroi, the Primary and Junior High Schools of Athikia, Corinth, the Corinth Special Primary school trips. School, the Argyroupolis Kindergarten of Rethymno, the • Helped - through purchase of games, invitations and lottery tickets - the Corinth Special Kindergarten and Primary Episkopi Junior and Senior High School of Rethymno, and the Senior High School of Loutraki, helping all the schools School, children's day care centres, kindergartens and to meet their operational needs. Moreover, it provided primary schools in Agioi Theodoroi, the General Senior High School in Agioi Theodoroi, kindergartens in Isthmia computers, interactive boards and printers to the 8<sup>th</sup> Primary School, the 1<sup>st</sup> Junior High School of Rethymno, and the Isthmia Special School. the Primary School of Agia, Mylopotamos, Rethymno, • Financially supported the extensive renovation of the the Junior High School of Isthmia, the Primary School of building of the 1<sup>st</sup> Primary School of Agioi Theodoroi. Almyri, the General Senior High School of Corinth, etc., Provided heating oil to dozens of schools in Corinth, Perama, helping the schools to provide more effective teaching for Crete, Ermioni and Stylida as well as other areas in Attica their students. and across Greece, helping schools to run smoothly and providing better conditions for learning.

# SCHOLARSHIP PROGRAM IN ASSOCIATION WITH THE SCHOOL OF FINE ARTS

In 2012 MOTOR OIL embarked on a strategic collaboration with the School of Fine arts, in an effort to support education and the arts and to help young people wishing to continue their studies abroad.

The collaboration involves the granting of a 12,000 euros scholarship each year to a graduate of the School to allow him or her to pursue postgraduate studies in the visual arts at a foreign university.

The successful candidate is chosen by a five-member panel, and the award-winning work becomes the property of MOTOR OIL, the hope being that over time a permanent collection of works can be built up for display around the company's premises.

At the same time, along with their portfolios the candidates submit 1-2 original works to be shown in an exhibition to be staged at the head offices of the group over a six-month period.



• Provided financial support to the General 1<sup>st</sup> and 2<sup>nd</sup> Senior High School of Ermioni, the General Senior High School of Agioi Theodoroi, the Primary School, Junior High School and 3<sup>rd</sup> Senior High School of Episkopi, Rethymno, the 3<sup>rd</sup> Primary School of Xylokastro, the Special Primary School of Corinth, the Lechaio Academy and the 3<sup>rd</sup> Senior High School of Ermioni, assisting them in the organisation of events, the running of student exchange programs and

#### THE VARDINOYANNEION FOUNDATION

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The Vardinoyanneion Foundation, whose main sponsor is MOTOR OIL, was established in 1989 and is administered by a seven-member board of trustees.

Its purpose is the granting of scholarships, awards and grants to candidates who have distinguished themselves academically or who are in need of financial support to do undergraduate or postgraduate studies at colleges and universities here or abroad.

The areas of study and the scholarships available are not fixed, but change each academic year, by decision of the board of trustees.

In the academic year 2015-2016 support was given to 65 students in the following areas (by way of example): economics, history, biology, psychology, chemistry, etc. One pre-graduate scholarship in Greece was also granted in the IT field.

Since the Foundation began its scholarship program, 162 scholarships have been granted and 1,722 bursaries.

#### **EDUCATIONAL VISITS TO THE REFINERY**

Every year we arrange visits to the refinery for students at universities and technical colleges, Armed Forces schools

and ordinary secondary schools. The idea is to allow visitors to learn about the operation of one of the most advanced refineries in Europe, with presentations and a guided tour of the production facilities and workplaces, with information on the environmental protection programs run by the company, as well as on its varied program of community work - both in local communities and in society as a whole. During the 2015 program, around 741 persons visited the refinery and the facilities of our commercial companies.

#### STUDENT INTERNSHIPS

Every year the company takes on a number of students for paid summer internship, lasting from one to two months. The students fill various positions in the refinery and at head office. In addition to this, we give a number of students the opportunity of a six- month internship, when this forms part of the degree course they are taking. We also provide positions for foreign students to gain work experience, in collaboration with the International Association for the Exchange of Students for Technical Experience (IAESTE).

As part of this activity in 2015 we filled 73 trainee positions of 1-2 months, and 42 positions of over two months, at a total cost of more than 257,000 euros. The total cost of the program has amounted to 1,447,000 euros over the last ten years.

The Poseidon Team from the Mechanical Engineering, Electrical Engineering, Automation Engineering Departments of the Piraeus Technical Educational Institute and the Departments of of the School of Administration and Economy of the Piraeus University, took part in the competition for the fourth consecutive year with their vehicle *Triiris*. It was entered in the Prototype (Battery Electric) category and won 22<sup>nd</sup> place, achieving a rate of 293 km/kWh.

The team TUC Eco Racing of the Production Engineering and Management School of the Crete Polytechnic, which entered in the class Urban Concept (Hydrogen), in its eight year of participation in the Marathon, achieved a performance of 58 km/kWh with its advanced city vehicle *Eco Racer (ER2015)*, securing 4<sup>th</sup> place, as it did in 2014.

#### 3.4. SPORTS

We have offered our support to sports and are also happy to offer substantial assistance to smaller clubs and sporting associations in the amateur sector.

During the year 2015 the MOTOR OIL Group has supported the Episkopi Sports Club, Rethymno, and the women's team of the Rethymno Volleyball Club (OPER). Sports Club of Agioi Theodoroi, the "Koronis" Sports Club of Koilada, the Korinthos Volleyball Association, etc.

Finally, every year MOTOR OIL makes a doctor and fullyWe also helped the Sports Club of Agios Georgios, Corinth,equipped ambulance available for the famous Spartathlonwith the 5x5 football field project, "Ermis Zonianon" Sportslong-distance race, also supporting the Control and AidClub, the "Isthmiakos" Sports Club, the Poseidon SportsClub of Loutraki, the Korinthos Sports Club, the "Stratilatis"

#### AVIN OIL – MAJOR SPONSOR OF THE RETHYMNO BASKETBALL TEAM

Once again this season, Avin Oil is sponsoring the Rethymno gymnastics Club (Agor), as a Major Sponsor. Our company is a valuable ally to a team which is going from strength to strength, winning significant sporting trophies without compromising the values of fair play and good sportsmanship.

In 2015 further support was given to the social activities of the Rethymno team, in the aim of supporting less privileged social groups and educating schoolchildren.

The "Shoot... from the regions" programme, sponsored by Avin oil, has given primary school children the chance to learn more about basketball by playing with players and coaches from the professional team. apart from emphasizing the value of sport, these visits to Rethymno primary schools by players from the team offer expertise, material-technical equipment and personal contact and acquaintance with Greek and European athletes, helping the children acquire ambitions and good role models to emulate.

#### SHELL ECO-MARATHON

Coral, owner of the Shell trademarks in Greece, actively supports the Shell Eco Marathon, a global initiative, whose main aim is to promote sustainability in transport, innovation and energy efficiency. Coral invites schoolchildren and students from Greece to compete in this leading educational programme organized by Shell, with teams from all over Europe, constructing energy-efficient vehicles. The winning team will be that which travels the greatest distance with the equivalent of one litre of fuel of its own choice: Traditional internal combustion engines burning petrol or diesel, engines using biofuels, electric motors, hydrogen cells or solar panels are concealed beneath the exterior of modern, futuristic vehicles which cut a striking figure on the race track.

Greek teams from leading universities and technical colleges in Greece, as well as schools all over the country, have been participating since 2004 in the Shell Eco Marathon. In 2015, Greek teams once again played a prominent part in the event, with notable results.

The Prometheus Team from the National Technical University of Athens took part for the sixth year running and was ranked 10<sup>th</sup> in the Battery Electric class, reaching 487 km/kWh with its prototype electric vehicle *Pyrphorus*, an improvement on its performance last year.



#### 6. GLOBAL COMPACT: COMMUNICATION ON PROGRESS 2015

MOTOR OIL participates in the United Nations Global Compact, which constitutes the biggest Corporate Responsibility initiative in the world. In year 2008, MOTOR OIL became a signatory of the UN Global Compact; at the same time the company became a member of the Global Compact Network Hellas.



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The Global Compact incorporates ten fundamental principles relating to human rights, labour rights, environmental protection and anti-corruption. We are committed to these principles, which we have integrated in the policies and processes of the company. MOTOR OIL's Sustainability Report 2015 contains information relating to our social and environmental practices and the outcomes thereof, which underline our commitment to the Global Compact. The following chart lists the compliance of MOTOR OIL with the ten Global Compact Principles, by making reference to the relevant chapters of the Sustainability Report 2015, and to the GRI indicators taken into account in compiling the Report.

THE TEN PR	INCIPLES OF THE GLOBAL COMPACT	REFERENCE IN THE SUSTAINABILITY REPORT OR DESCRIPTION OF THE IMPLEMENTATION APPROACH	GRI INDICATOR (G4)
Human Righ	ts		
Principle 1	Businesses should support and respect the protection of internationally proclaimed human rights.	protection of internationally proclaimed human Full compliance with relevant Greek legisla-	
Principle 2	Businesses should make sure that they are not complicit in human rights abuses.	Chapter 2. Full compliance with relevant Greek legislation and international conventions.	G4 HR4
Labour			
Principle 3	Businesses should uphold the freedom of association and the effective recognition of the right to collective bargaining.	Chapter 2.	G4-11. G4 HR4
Principle 4	Businesses should uphold the elimination of all forms of forced and compulsory labor.	Chapter 2. Full compliance with relevant Greek legisla- tion and international conventions.	There is no reference of an indicator, as this has not emerged as a material issue during the G4 process.
Principle 5	Businesses should uphold the effective abolition of child labor:	Chapter 2. Full compliance with relevant Greek legisla- tion and international conventions.	There is no reference of an indicator, as this has not emerged as a material issue during the G4 process.
Principle 6	Businesses should uphold the elimination of discrimination in respect of employment and occupation.	Chapter 2.	G4-10, G4 LA1
Environmen			
Principle 7	Businesses should support a precautionary approach to environmental challenges.	Chapters 1 and 4.	G4 EC2. G4 EN19, G4 EN31, G4 EN32
Principle 8	Businesses should undertake initiatives to promote greater environmental responsibility.	Chapters 1 and 4.	G4 EN3-4, EN6, EN8-10, EN15-16, EN20-26, EN29, EN31-33
Principle 9	Businesses should encourage the development and diffusion of environmentally friendly technologies.	Chapters 1 and 4.	G4 EN6, EN10, EN19, EN31
Anti-corrupt	ion		
Principle 10	Businesses should work against corruption in all its forms, including extortion and bribery.	Chapter 1.	G4-15, G4-34, G4-56, G4 S05

# 7. GRI COMPLIANCE LEVEL

The MOTOR OIL Sustainability Report, which has been published every year since 2002, is the main tool available for communicating with our stakeholders about the Group's efforts and performance in achieving sustainable development through the application of the principles and objectives of Corporate Social Responsibility. It contains the most important facts and data relating to the previous year's financial, social and environmental performance.

The Sustainability Report 2015 has a similar structure to previous editions, so as to facilitate comparisons of performance over time. The information and data presented in the Report concern the parent company MOTOR OIL, the Group subsidiaries AVIN OIL, CORAL, CORAL GAS, OFC and LPC which are controlled by MOTOR OIL, and whose activities have a significant impact on issues considered as material for sustainable development.

The compilation of the Sustainability Report 2015 is based on the Global Reporting Initiative (GRI) guidelines, just as in the six previous editions, and specifically of the G4 edition – In Accordance – Core. The GRI guidelines have provided a sound basis for the selection of the material issues that had to be covered by the Report, for an effective communication with stakeholders.

The Sustainability Report 2015 is not certified by an external certification authority.

#### REPORT METHODOLOGY (MATERIALITY ASSESSMENT)

One of the most important and fundamental guidelines of the Global Reporting Initiative is the concept of materiality. An organization is obliged to report on those matters which have the most significant economic, environmental and social impact, or those matters viewed as most significant by its internal and external stakeholders. Within this context, and in order to determine which issues are material to us, we have actively involved our stakeholders in order to arrive at a list of issues for this edition of our report.

#### MATERIALITY ASSESSMENT PROCEDURE

Given the nature of our business it is evident that our report will lay emphasis on matters of safety and the environment, financial results, as well as our social contribution, which are of major importance to our stakeholders. In selecting and ranking the material issues, we have used a detailed procedure based on the principles of relativity, importance and ranking. This procedure involved:

**Step 1**: Determination and understanding of the issues significant to our stakeholders, through a process of research and focus groups made up of employees, local community, suppliers and customers and through benchmarking in the energy sector. More specifically, by benchmarking the latest company reports in the sector, with reference to the material issues, it was recognized that financial performance, greenhouse gas emissions, energy, water, health and safety in the workplace, employment, supplier assessment and local communities, are common and material issues. This procedure was followed in order to crosscheck and confirm the material issues identified by the internal procedures of Motor Oil.

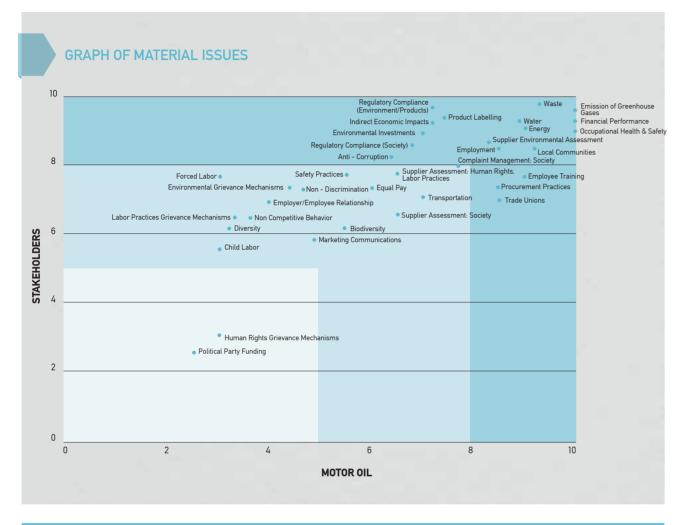
**Step 2:** Identification and understanding of significant issues, as these arise from the corporate strategy of MOTOR OIL, through internal procedures. For issues which can be measured in quantitative terms, such as greenhouse gas emissions, there are recognized methods of determining their materiality. For issues of a qualitative nature, various methods were used to assess their materiality, with the involvement of stakeholders but also through the benchmarking process.

**Step 3:** Bringing together of the results into a matrix, and evaluation of each issue on the basis of its more general social, environmental and economic impact, based on a scale of 1-10. Each issue was evaluated and given a materiality ranking in accordance with its importance to stakeholders and the company. The issues located in the top right corner of the graph are regarded as the most material, as appears in the graph.

**Step 4**: Subsequently, the Report included all issues with the highest level of materiality. Issues of less materiality are mentioned only if they are affected by or dependent on issues of greater materiality.



On completion of the above steps, the following areas were referred to as material issues: **financial performance**, **indirect** economic impacts, procurements practices, energy, water, waste, emissions of greenhouse gases, environmental investments, supplier environmental assessment, employment, health and safety in the workplace, employee training, trade unions, local communities, anti - corruption, compliance with legislation and products labelling.



BOUNDARIES AND LIMITATIONS OF MATERIAL ISSUES				
Material	Boundaries		Limitations	
Issues			Within the Organization	Outside the Organization
Financial performance	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL, Coral, Coral Gas, LPC and OFC which are controlled by MOTOR OIL.	Shareholders, investors, analysts, partners, suppliers, customers.	-	-
Indirect economic impacts	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL, Coral, Coral Gas, LPC and OFC which are controlled by MOTOR OIL.	Local communities, public authorities, suppliers.	-	-
Procurement practices	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL, Coral, Coral Gas, LPC and OFC which are controlled by MOTOR OIL.	Suppliers	-	-
Energy	Concerns the parent company MOTOR OIL.	-	Data only for the refinery.	-

Material	Boundaries		Limitations	
Issues	Within the Organization	Outside the Organization	Within the Organization	Outside the Organization
Water	Concerns the parent company MOTOR OIL.	Local communities	Data only for the refinery.	-
Waste	Concerns the parent company MOTOR OIL.	Local communities and public authorities.	Data only for the refinery.	-
Emissions of greenhouse gases	Concerns the parent company MOTOR OIL.	Local communities and public authorities.	Data only for the refinery.	-
Environmental investments	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL, Coral, Coral Gas LPC and OFC which are controlled by MOTOR OIL.	Shareholders, investors, analysts, local communities, public authorities.	-	-
Supplier Environmental Assessment	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL, Coral, Coral Gas, LPC and OFC which are controlled by MOTOR OIL.	Shareholders, investors, analysts, suppliers.	-	-
Employment	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL, Coral, Coral Gas, LPC and OFC which are controlled by MOTOR OIL.	-	-	-
Health and Safety	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL, Coral, Coral Gas, LPC and OFC which are controlled by MOTOR OIL.	Contractors' staff and tank lorry drivers of 3rd party companies	-	-
Employee Training	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL, Coral, Coral Gas, LPC and OFC which are controlled by MOTOR OIL.	Contractors' staff and tank lorry drivers of 3rd party companies.	-	-
Unions	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL, Coral, Coral Gas, LPC and OFC which are controlled by MOTOR OIL.	-	-	-
Local Communities	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL, Coral, Coral Gas, LPC and OFC which are controlled by MOTOR OIL.	Local communities and public authorities.	-	-
Anti-Corruption	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL, Coral, Coral Gas, LPC and OFC which are controlled by MOTOR OIL.	Shareholders, investors, ana- lysts, partners, suppliers, customers, public authorities	-	-
Compliance	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL, Coral, Coral Gas, LPC and OFC which are controlled by MOTOR OIL.	Partners, suppliers, customers.	-	-
Products labelling	Concerns the parent company MOTOR OIL and its subsidiaries AVIN OIL. Coral. Coral Gas. LPC and	Partners, suppliers, customers,	-	-

Overall in the Sustainability Report, where numerical data or performance indicators are presented, the method of data collection and calculation of results is also stated. The Environmental and Health and Safety performance indicators are specifically calculated according to internationally accepted procedures. Also in chapter 4 "Responsibility for the Environment" the data relating to investments and recycling refer to the whole MOTOR OIL Group, whereas other indicators in this chapter refer solely to the MOTOR OIL refinery.

The following table records the GRI Indicators, and in the column headed "Reference" the source of information relating to each indicator is given.

p.: indicates the page(s) of the Sustainability Report 2015 that include information on the indicator.
 indicates reference to the Annual Financial Report 2015.
 indicates reference to the company's website.



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TABLE OF GRI.G4 INDICATORS – GRI CONTENT INDEX FOR "IN ACCORDANCE" - CORE GENERAL STANDARD DISCLOSURES							
Indicator							
Company Pro		Kelerence					
G4-1	Management statement.	p. 5					
G4-7	Description of key impacts, risks, and opportunities.	p. 20-22, 60-61, <b>fff</b> p. 30-32					
		p. 20-22, 00-01, <b>au</b> p. 30-32					
Organizationa G4-3	1	Back cover					
G4-4	Name of the reporting organization.						
	Primary brands, products, and/or services.	p. 11-14, <b>and</b> p. 12-13, 20-28, ✓≞					
G4-5	Location of organisation's headquarters.	Back cover					
G4-6	Countries where the organisation operates.	p. 15					
G4-7	Ownership structure and legal form.	p. 12-13, 17-18, 27, 📶 p. 29, 38-41, ⁄ 🖰					
G4-8	Markets served.	p. 12-13, 15-16, 📶 p. 11-12					
G4-9	Scale of the organization.	p. 10-16, 22-23, 31-35, 80-82, 📶 p. 9-20, 94-95					
G4-10	Workforce profile.	p. 31-34					
G4-11	Percentage of employees covered by collective bargaining agreements.	p. 31					
G4-12	Describe the organization's supply chain.	p. 22					
G4-13	Significant organizational changes in the reporting period.	p. 2-3, 22-23, <b>mi</b> p. 18-20					
G4-14	Application of the precautionary principle.	p. 18, 23-25, 42-44, 57-60					
G4-15	Voluntary support for external economic, environmental and social charters or initiatives.	p. 18-19					
G4-16	Memberships in associations and advocacy organisations.	p. 18-19					
Identified Ma	terial Issues and Boundaries						
G4-17	List of entities included in the organization's consolidated financial statements.	p. 12-13, <b>mi</b> p. 20-28					
G4-18	Process for defining report content.	p. 9, 90-93					
G4-19	Material Issues.	p. 90-92					
G4-20	Issues boundaries and limitations within the organization.	p. 92-93					
G4-21	Issues boundaries and limitations outside the organization.	p. 92-93					
G4-22	Explanation of the reasons for re-stating information provided in earlier reports.	p. 91					
G4-23	Changes from previous reports.	p. 9, p. 91					
Stakeholder	Engagement						
G4-24	Stakeholder groups engaged by the organisation.	p. 26-27					
G4-25	Stakeholder identification.	p. 26-27					
G4-26	Approaches to stakeholder engagement.	p. 26-27					
G4-27	Topics raised by stakeholders.	p. 20-21, 26-27					
G4-28	Reporting period.	1/1/2015-31/12/2015					
G4-29	Most recent previous report.	p. 96					
G4-30	Reporting cycle.	p. 9					
G4-31	Contact point for questions.	p. 9					
G4-32	Location of the Standard GRI Disclosures.	p. 94-96					
G4-33	External Assurance.	p. 91					
Governance							
G4-34	Corporate governance structure.	p. 17-19, <b>mi</b> p. 38-41, 🐣					
Ethics and In							
G4-56	Corporate policies, mission and value statements related to sustainability.	p. 5, 20-22, inside cover page					

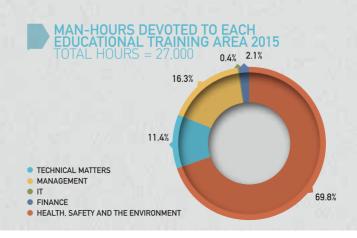
TABLE OF GRI.G4 INDICATORS – GRI CONTENT INDEX FOR "IN ACCORDANCE" - CORE						
SPECIFIC STANDARD DISCLOSURES						
Material Aspects	Indicators	Description	Reference			
Category: Economi	Category: Economic					
Economic Performance	G4-EC1	Directly generated and distributed economic value.	p. 14-16, 80-82, <b>mi</b> p. 9-10			
	G4-EC2	Climate change financial implications, risks or opportunities.	Climate change impacts regarding the possible financial implications, risks or opportunities, constitute parameters thoroughly taken into account in the process of analysing, evaluating, approving and planning for investments or other initiatives.			
	G4-EC4	Significant state financial assistance.	MOTOR OIL has not received any significant finan- cial assistance from the state.			

		TABLE OF GRI.G4 INDICATORS – GRI CONTENT INDEX FOR "IN ACCORD/ SPECIFIC STANDARD DISCLOSURES	
Material Aspects	Indicators	Description	Reference
Indirect	G4-EC7	Development and impact of infrastructure investments and services sup-	p. 80-82
Economic Impacts	0.120/	ported.	p. 00 02
	G4-EC8	Significant indirect economic impacts, including the extent of impacts.	p. 80-82
Procurements Practices	G4-EC9	Proportion of spending on local suppliers at significant locations of operation.	p. 81-82
Category: Environn	nent		
Energy	G4-EN3	Direct energy consumption by primary energy source.	р. 65-66
	G4-EN4	Indirect energy consumption by primary source.	70,958 MWh from the Electricity Market.
	G4-EN5	Energy intensity.	p. 65-67
	G4-EN6	Reduction of energy consumption.	p. 65-67
Water	G4-EN8	Total water withdrawal by source.	p. 76
	G4-EN9	Effects of water withdrawal.	p. 76
	G4-EN10	Percentage and total volume of water recycled and reused.	p. 76
Emissions	G4-EN15	Direct greenhouse gas emissions.	p. 68
	G4-EN16	Indirect greenhouse gas emissions.	p. 69-73
	G4-EN18	Greenhouse gas emissions Intensity.	p. 68
	G4- EN19	Reduction of greenhouse gas emissions.	p. 68
	G4-EN20	Emissions of ozone-depleting substances.	Non-existent.
	G4-EN21	NOx, SOx and other significant air emissions.	p. 69-73
Effluents and	G4-EN22	Total water discharge.	p. 76
Waste			·
	G4-EN23	Solid waste.	p. 74-75
	G4-EN24	Significant spills.	There were no significant spills.
	G4-EN25	Quantity of hazardous solid waste.	р. 74-75
	G4-EN26	Areas impacted by the organisation's discharge of water and runoff.	Non-existent.
Compliance	G4-EN29	Significant fines and sanctions for non-compliance with environmental laws.	There have not been any relevant fines or sanctions established by final court.
Investments	G4-EN31	Environmental protection investments and expenses.	р. 61-62
Supplier Environmental Assessment	G4-EN32	Percentage of new suppliers that were screened using environmental criteria	All important suppliers are evaluated using questionnaires which also include criteria on environmental performance.
	G4-EN33	Significant actual and potential negative environmental impacts in the supply chain and actions taken.	No significant impact.
Category: Social			
Employment	G4-LA1	Total number and rates of new employee hires and employee turnover by age group, gender and region.	p. 31-34
	G4-LA2	Benefits provided to full-time employees that are not provided to temporary or part-time employees, by significant locations of operation.	р. 36-37
Occupational Health & Safety	G4-LA5	Workforce representation in occupational health and safety committees.	The Health and Safety Committee of the refinery employees represents all staff.
	G4-LA6	Occupational injuries and lost day rates.	р. 45-46
	G4-LA7	Occupational diseases.	p. 45-46
	G4-LA8	Health and safety topics covered in formal agreements with trade unions.	p. 31, 43-44, 52-54
Training and Education	G4-LA9	Average hours of training per year per employee.	p. 36-39
	G4-LA10	Programs for skills development and lifelong learning.	р. 36-39
Freedom of Association and Collective Bargaining	G4-HR4	Operations that limit freedom of association and collective bargaining.	No such operations, p. 31
Local Commu- nities	G4-S01	Impacts on local communities.	p. 80-89
Anti-corruption	G4-S05	Confirmed incidents of corruption and actions taken.	No such incidents.
Compliance	G4-S08	Monetary value of significant fines and total number of non-monetary sanctions for non-compliance with laws and regulations.	No such fines.
Product and service labeling	G4-PR4	Total number of incidents of non- compliance with regulations and voluntary codes concerning product and service information and labeling, by type of outcomes.	No incidents of non-compliance.
Compliance	G4-PR9	Monetary value of significant fines for non- compliance with laws and regulations concerning the provision and use of products and services.	No such fines.



Turnover	7,060 million euros
Earnings after tax	<b>205</b> million euros
Dividents paid <sup>1</sup>	0.65 euros/share
Total assets	2,568 million euros
Refinery production	11.8 million tons
MOTOR OIL sales	12.8 million tons
- domestic sales - export sales	4.1 million tons
	8.7 million tons
Crude oil refining capacity	185,000 barrels/day
Refinery storage tanks capacity	2.5 million cubic meters
Petrol stations	1,350
Employees (annual average) <sup>2</sup>	1,924 people
Training man hours	27,000 hours
Total investments 2000-2015	1,477 million euros
Environmental investments and expenses 2000-2015	767.5 million euros
Recycling - Solid Waste Disposal	<b>5,908</b> tons
Health and Safety investments 2000 - 2015	143.4 million euros
Social contribution 2006 - 2015 <sup>3</sup>	<b>36.6</b> million euros
Social product <sup>4</sup>	482.2 million euros
Refinery certifications	ISO 9001:2008 ISO 14001:2004 ISO 17025:2005 OHSAS 18001:2007 EMAS III ER1221/2009 EN 12591:2009

- 1. An interim dividend amount of 0.15/share was paid in December of 2015 while the dividend remainder amount of 0.50/share will be paid in July of 2016.
- Includes the employees of MOTOR OIL, AVIN OIL, CORAL, CORAL GAS, LPC and OFC.
- 3. Refers to donations and sponsorships.
- 4. Refers to the portion of revenues distributed to stakeholders.



#### Sustainability Reports of Previous Years











Arrest interest

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and MILLS, MILLS

10

A ......

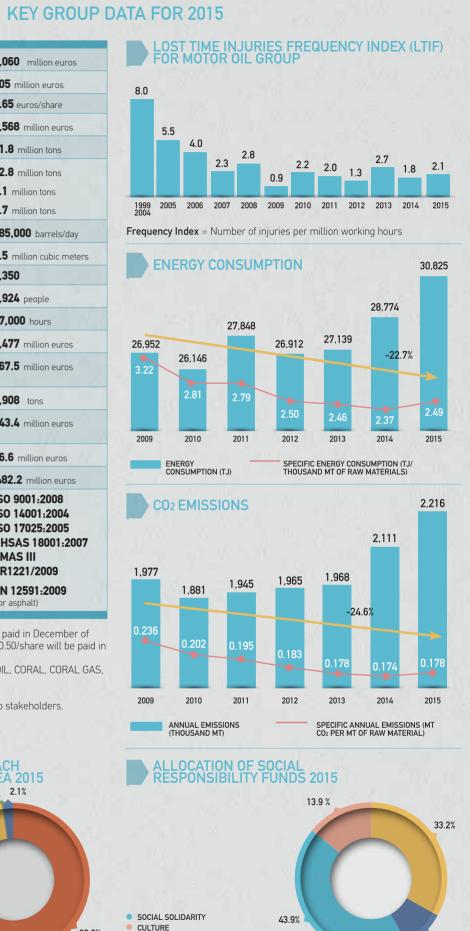












• YOUTH (EDUCATION, SPORTS)

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