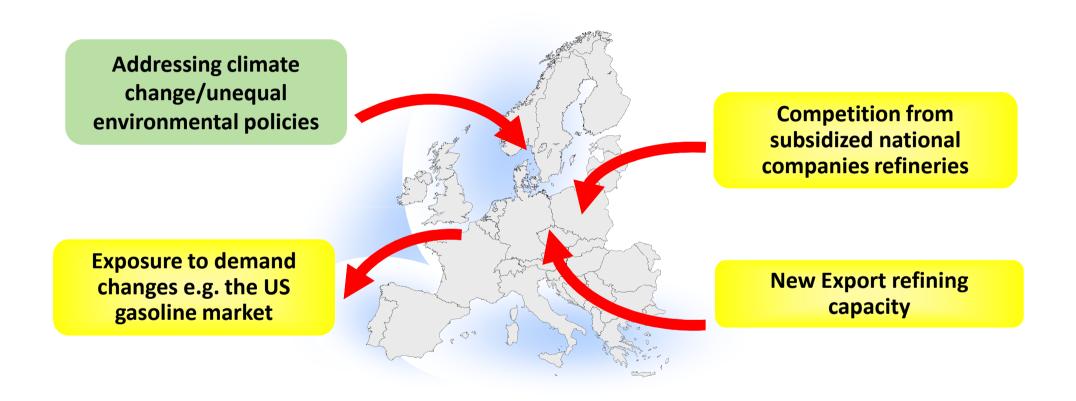


# SE Europe. A challenging environment for Refiners

6h South East Europe Energy Dialogue Thessaloniki, Greece 30-31 May 2012

Nikos A. Zahariadis Thessaloniki Refinery Operations Manager

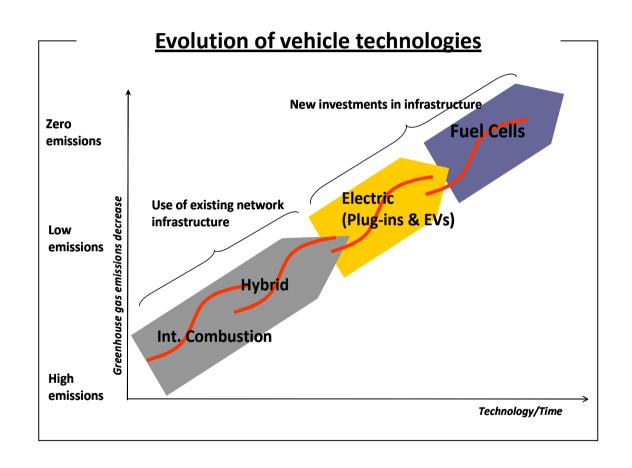
# The European refining industry will continue to face challenges



Competitiveness and adaptability are essential for survival

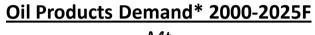


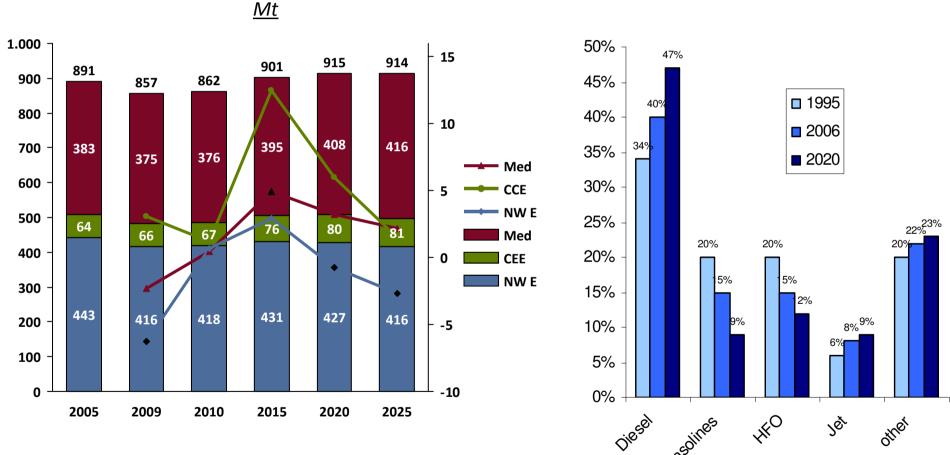
# New technologies are forecast in the long term to have an impact on demand for conventional road transportation fuels





# Stagnant demand is putting pressure on the European refining industry, particularly in the North West





Source: Wood Mackenzie, Regional Outlook, Greater Europe, July 2010



# A number of European refineries have been sold and others are up for sale or candidates for closure

Company	Location	Capacity	Up-for-Sale	Closure or Terminal
TOTAL	Dunkirk, FRANCE	137kbpd		$\checkmark$
TOTAL	Lindsey, UK	221kbpd	$\checkmark$	
MURPHY OIL CORP.	Milford Haven, UK	130kbpd	$\checkmark$	
PETROPLUS	Reischstett, FRANCE	85kbpd		$\checkmark$
SHELL	Hamburg, GERMANY	110kbpd		$\checkmark$
CONOCO PHILLIPS	Wilhelmshaven, Germany	260kbpd		$\checkmark$
PETROM	Pitesti, Romania	70kbpd		<b>✓</b>
PETROPLUS	Teesside, UK	110kbpd		<b>√</b>

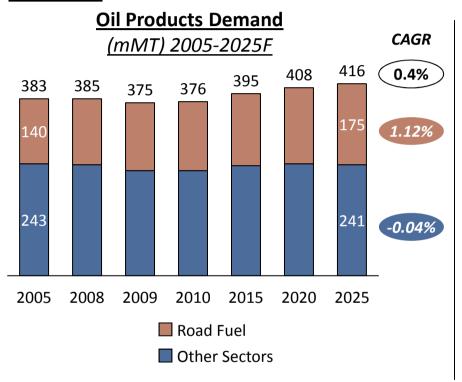
### c.1.1mbpd total refining capacity Up for Sale or Closing down

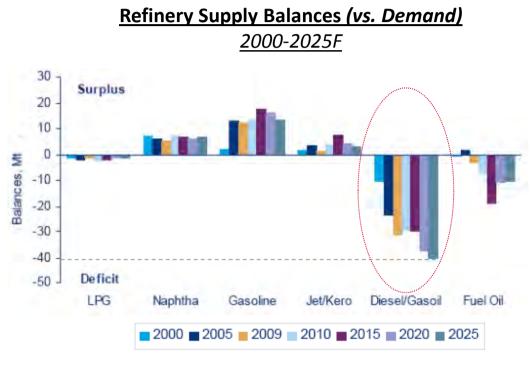
#### **European Oil Refineries Sold**

- SHELL's Stanlow 270kbpd refinery: acquired by ESSAR Oil
- CHEVRON's Pembroke 210kbpd refinery: acquired by VALERO
- ■INEOS' Grangemouth 200kbpd refinery: JV with PETROCHINA
- **SHELL's Gothenburg 78kbpd refinery: acquired by St1**



# However, in the Med\* region where demand is mainly driven by non European countries, diesel shows a large and increasing deficit



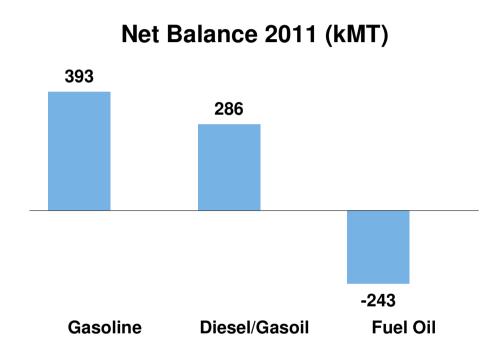


- Diesel deficit continues to grow to 2025
- Gasoline surplus grows through to 2015
- Non European med countries drive demand increase

Source: Wood Mackenzie, Regional Outlook, Mediterranean, July 2010



# <u>Southeast Europe – Key Fuels Exports / Imports Balance</u>



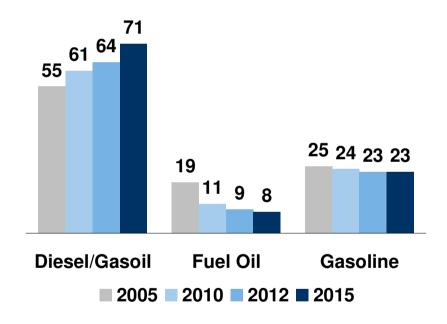
Source : Wood Mackenzie

- Currently in SE area Diesel/Gasoil and Gasoline exports outweigh imports (by 286 kMT for Diesel/Gasoil and 393 kMT for Gasoline).
- However for Diesel the above market dynamics are expected to change from 2015 onwards as demand is expected to increase leading to negative trade balance in the region.
- •SE area is short on fuel oil, partially as a result of the application of EURO V specification which led to lower-sulphur feedstock, followed by a decrease of the heavier derivatives at the production slate.



### <u>Southeast Europe – Key Fuels Demand</u>

# Demand Trends by Product (m MT)



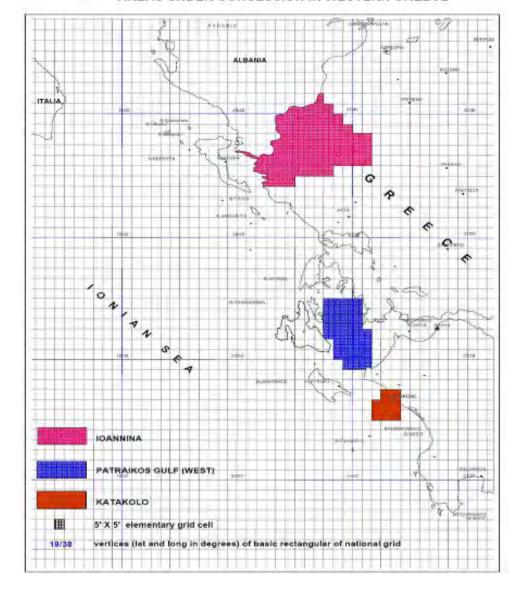
Source: Wood Mackenzie

- Between 2005-2012 demand for Diesel/Gasoil increased by a compound annual growth rate of 3%, a trend expected to continue with the same pace.
- Fuel oil demand weakens by an average of 10% annually in the period 2005-2012.
   In the future demand is expected to decline further by 11% (2015)
- Gasoline has a steady demand outlook over the examined period with demand falling slightly by an average of 1% (2012-2015)



# **Concessions in Greece**

#### AREAS UNDER CONCESSION IN WESTERN GREECE

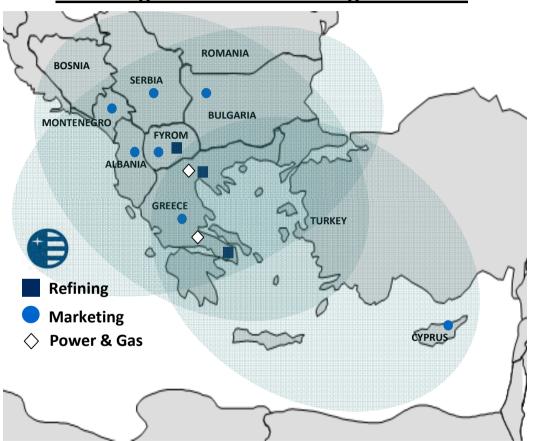




# Hellenic Petroleum's strategic response

# <u>Hellenic Petroleum – A Leading Energy Group in SE Europe</u>





Shareholding structure
Paneuropean oil & Ind Holdings SA c.42%
Greek State c.36%
Free float c.22%

Total sales 2011 €9.3 bn EBITDA €375 mn

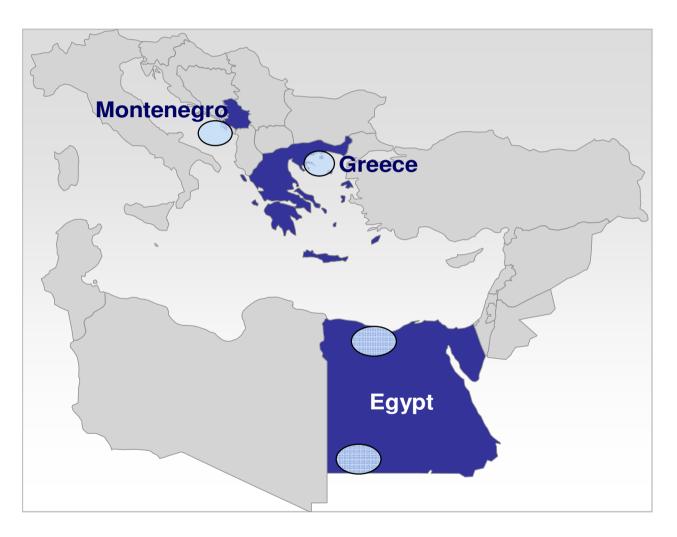
Coastal location of refineries ensures ample availability and variety of crude oil

Cost advantaged to supply SEE/East Med markets with end-products

Opportunities for regional consolidation and cooperation



### <u>Hellenic Petroleum – A Leading Energy Group in SE Europe</u>



#### Agypt

#### **West Obayed Block**

**HELLENIC PETROLEUM (30%)** 

Vegas Oil & Gas (70%)

#### Mesaha Block

#### **HELLENIC PETROLEUM (30%)**

Melrose Resources (40%)

**Kuwait Energy Company (15%)** 

Beach Petroleum (15%)

#### Greece

#### **Thrace**

HELLENIC PETROLEUM (25%)

Calfrac Well Services (75%)

#### Montenegro

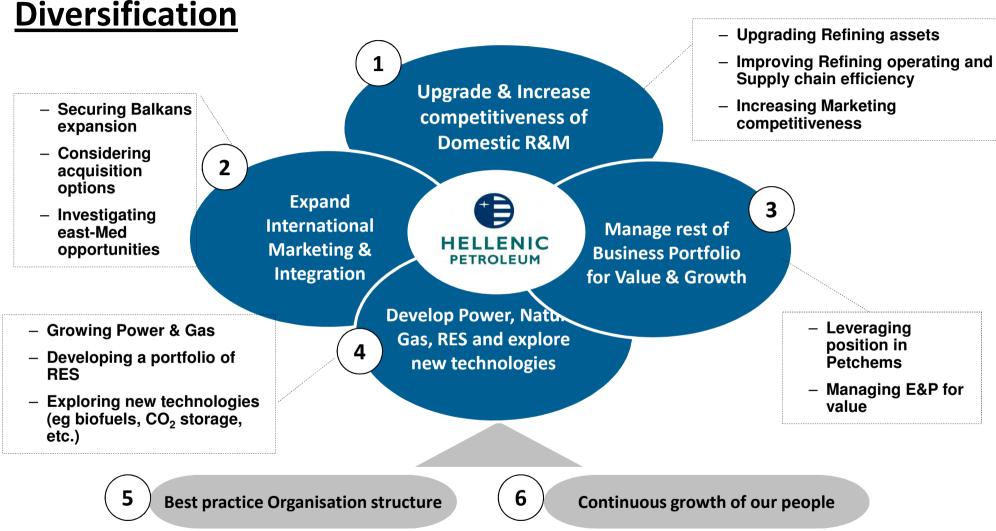
#### **Blocks 1&2 (Prevlaka)**

HELLENIC PETROLEUM (JPK) (60%)

Sea Energy (40%)

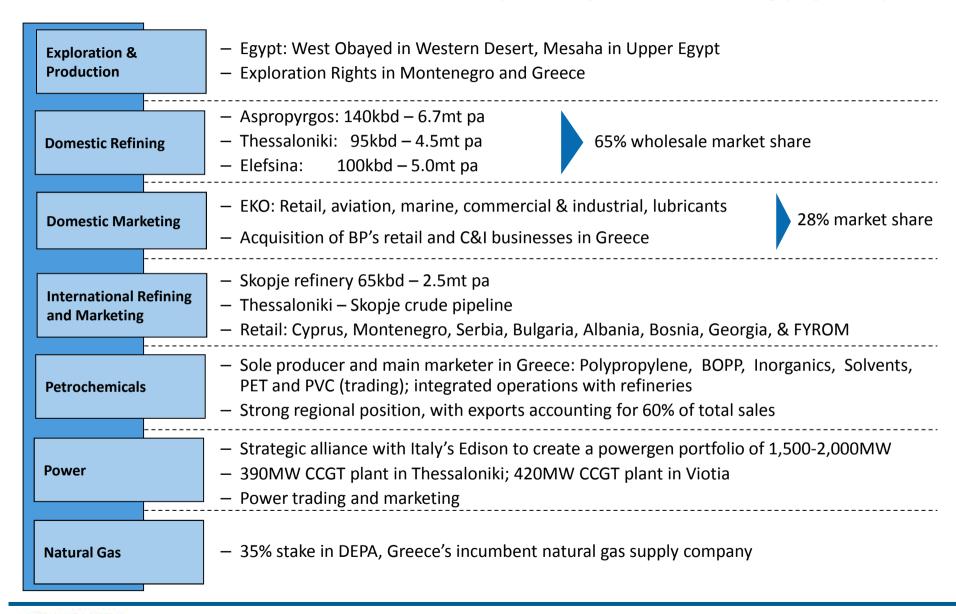


HELPE has a clear strategy for Growth, Competitiveness and



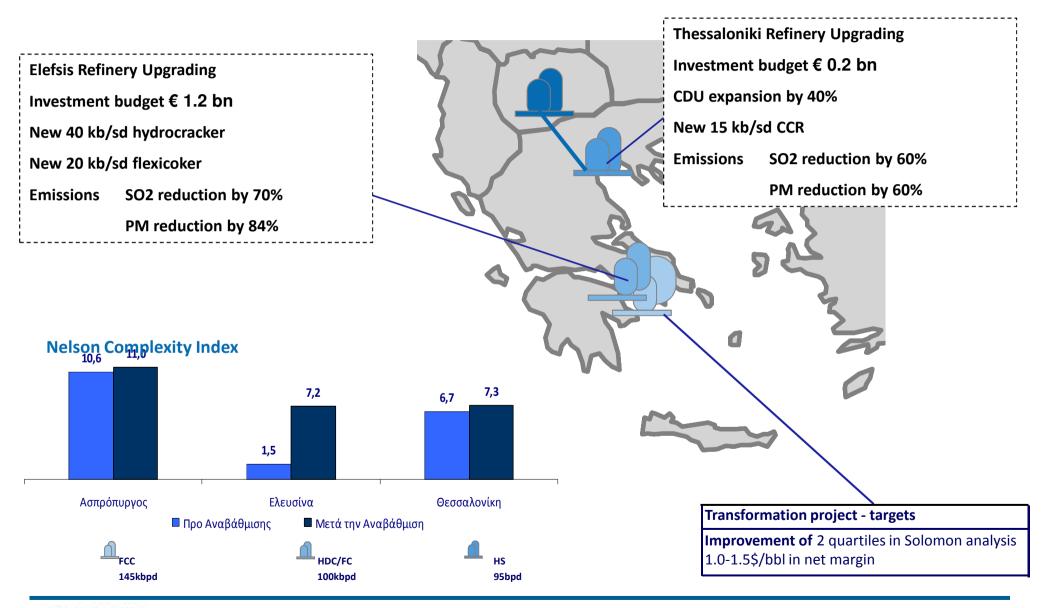


### Hellenic Petroleum is a vertically integrated energy group





# **Upgrade & Increase competitiveness of Domestic R&M**

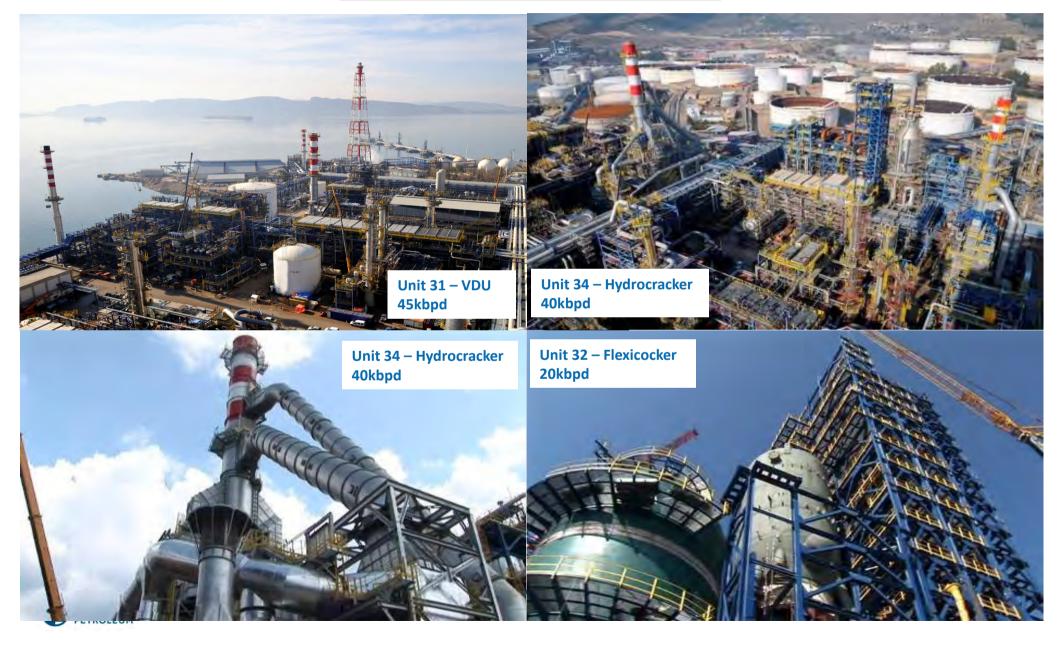




# Thessaloniki Refinery Upgrading. New CCR unit 15 kB/SD



# **Elefsina Refinery Upgrading**



# Our strategic alliance with Italy's Edison aims at creating one of Greece's leading independent power producers

Thessaloniki 390MW CCGT power plant



Thisvi 420MW CCGT power



- **Elpedison:** 50/50 joint venture with Edison, Italy's 2<sup>nd</sup> largest electricity producer and gas distributor, targets a power generation portfolio of 1,500-2,000MW, to secure the number 2 market position and take advantage of the market's positive long-term trends
  - ▶ 390MW CCGT plant in Thess/ki in operation since 2005
  - ▶ 420MW CCGT plant in Thisvi recently completed, as planned
  - Power trading & marketing



### Petrochemicals: Leading producer and trader in SEE and the Med

#### Position:

- Sole petrochemicals producer in Greece
- Domestic market shares greater than 50% in all products produced or traded
- Strong competitive advantage in polypropylene from own production of raw material (propylene)
- Exports account for 60% of total sales; strong export markets in Italy and Turkey
- Streamlined PVC operations through substitution of production with imports

#### Targets

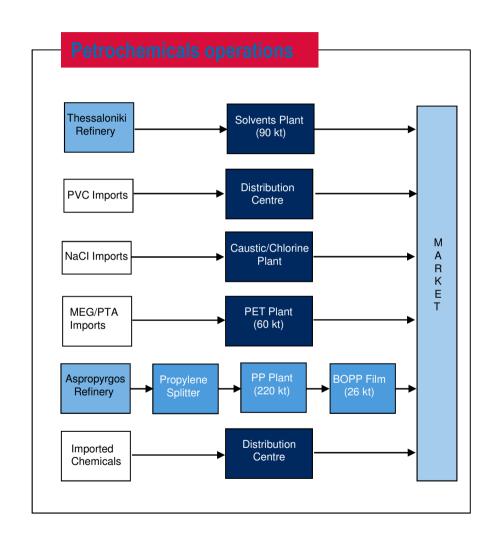
- Debottleneck polypropylene production
- Expand product portfolio:

Add new commodity plastics (PE)

Increase selectively PP resin grade portfolio

Increase selectively BOPP film types

Leverage regional market access through increased trading





# HELPE also has a major social contribution and focuses on Sustainable Development

- Significant contribution to the Greece's energy security
- ■€300 mn paid to the State annually in corporate income taxes, social security and employment taxes
- <u>€3 bn</u> collected annually in excise taxes and VAT
- ■CSR programme with focus on local communities *GRI\* methodology*
- ■5,200 employees
  - of which more than 550 live in the local communities of Thriasio and Thessaloniki
- ■€3 bn Investments between 2008-2012
- ■€6.7 bn in Assets
- ■Presence in 10 countries



- ■€1.5 bn investments in refineries for product specs upgrades and substantial improvement in environmental performance
- ■330 kT annual total savings of CO<sub>2</sub> through investments in heat & power cogeneration
- ■€79 mn in energy efficiency investments (2010-2012)
- Continuous reduction of gas emissions and liquid waste
- ■Entry into power generation using natural gas, generating 50% less CO<sub>2</sub> vs. conventional coal and oil plants
- ■Developing a 100 MW RES portfolio
- Increased operations in biofuels trading in the Greek market

Hellenic Petroleum is examining several scenarios for investments in new energy technologies within the next 10 years



\*Global Reporting Initiative

# <u>Summary</u>

- Greek economic crisis, global market conditions, climate change and regulatory obligations create challenges for Hellenic Petroleum
- In comparison to the rest of Europe, the Med region offers opportunities, given regional demand growth drivers and export potential
- Hellenic Petroleum is addressing the challenges by leveraging its position in the east Med region, investing for growth and enhancing its competitiveness
- The implementation of a €3 billion investment programme combined with major transformation initiatives will enhance Hellenic Petroleum's competitiveness and substantially increase profitability in the next two years

