



Energy security and conservation

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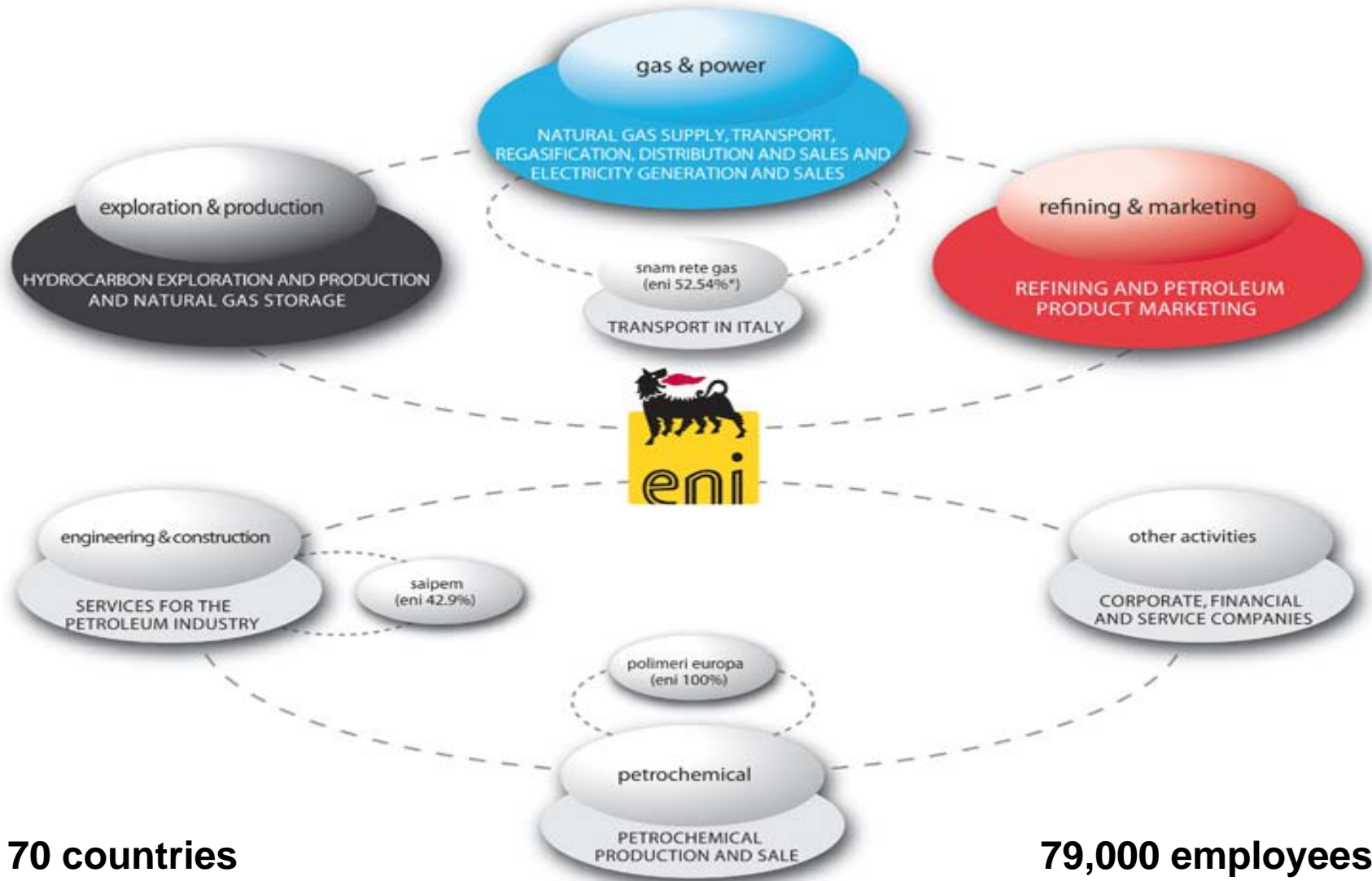
Agenda

- **eni's** strategy on energy efficiency and climate change protection
- Energy security and conservation through the valorization of a wasted resource: flaring down initiatives



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The company's structure



eni's strategy to combat climate change

- Short-mid term initiatives: the progressive elimination of **Associated Gas Flaring** and the increase of **Energy Efficiency** in its operations

- Long term initiatives: **Renewables R&D** programme and **Carbon Capture & Storage** activities



Undertaken Actions

- Emission Trading
- Gas Flaring reduction
- Energy efficiency improvement
- R&D: Solar energy and Biofuels
- CO2 injection
- CDM projects
- Networking
- Public opinion

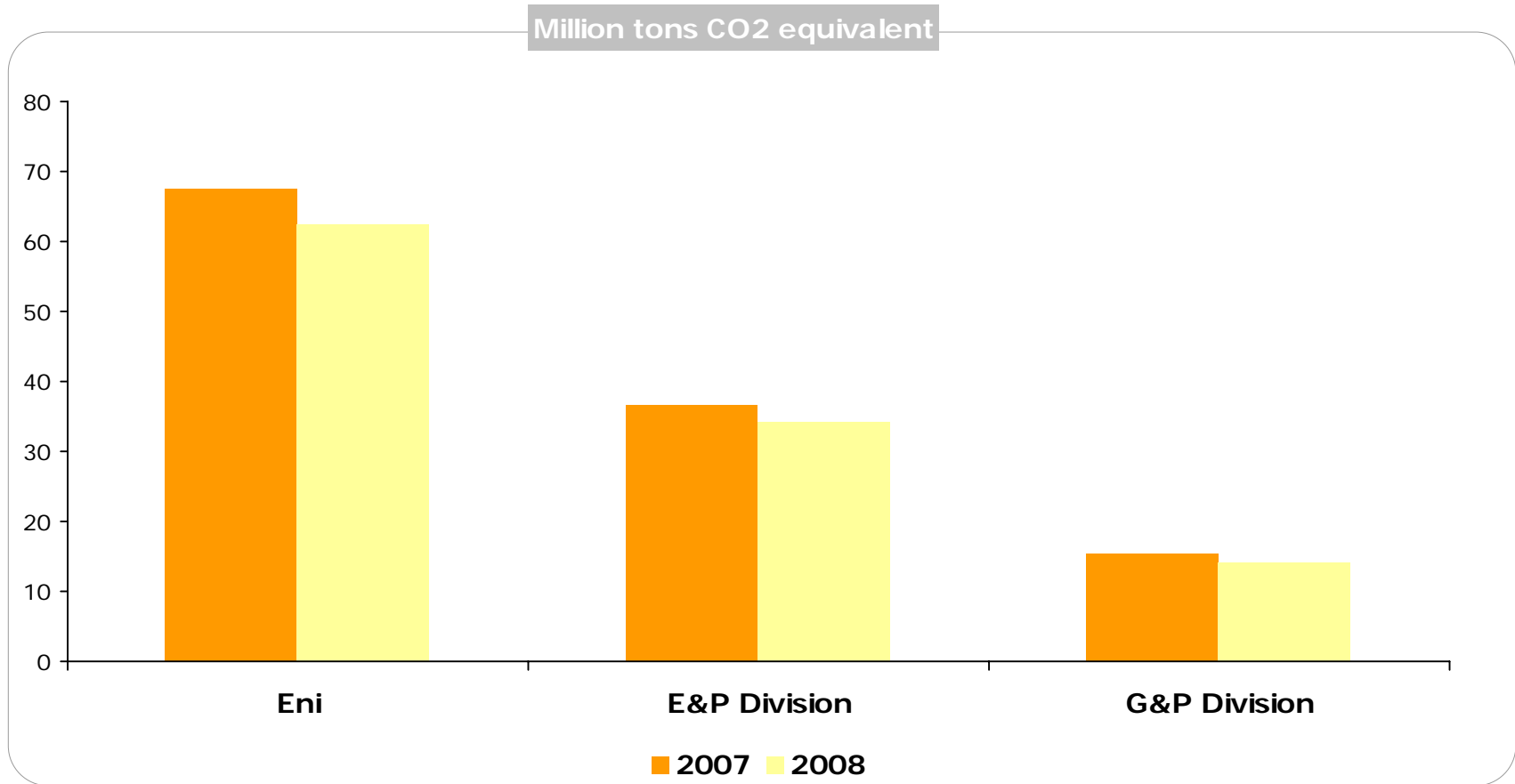


Along with Petroleum R&D programme

- Corporate fund of **120 Million €** in the period 2008-11
- Aim: development **innovative technologies** related to **solar energy** (CSP, nanotechnologies and polymeric photovoltaics) and **biofuels/biomass energy**
- Research agreement on solar breakthrough technologies with the **Massachusetts Institute of Technology**
- Conversion to renewables research of the **Donegani** center



eni's GHG emissions



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What is flaring?

- In some countries the associated gas is burnt without recovering heat or electricity
- Causes: lack of market opportunities or infrastructures
- 140 billion cubic meters of natural gas flared in 2008
- A waste of a valuable resource and damage to the environment



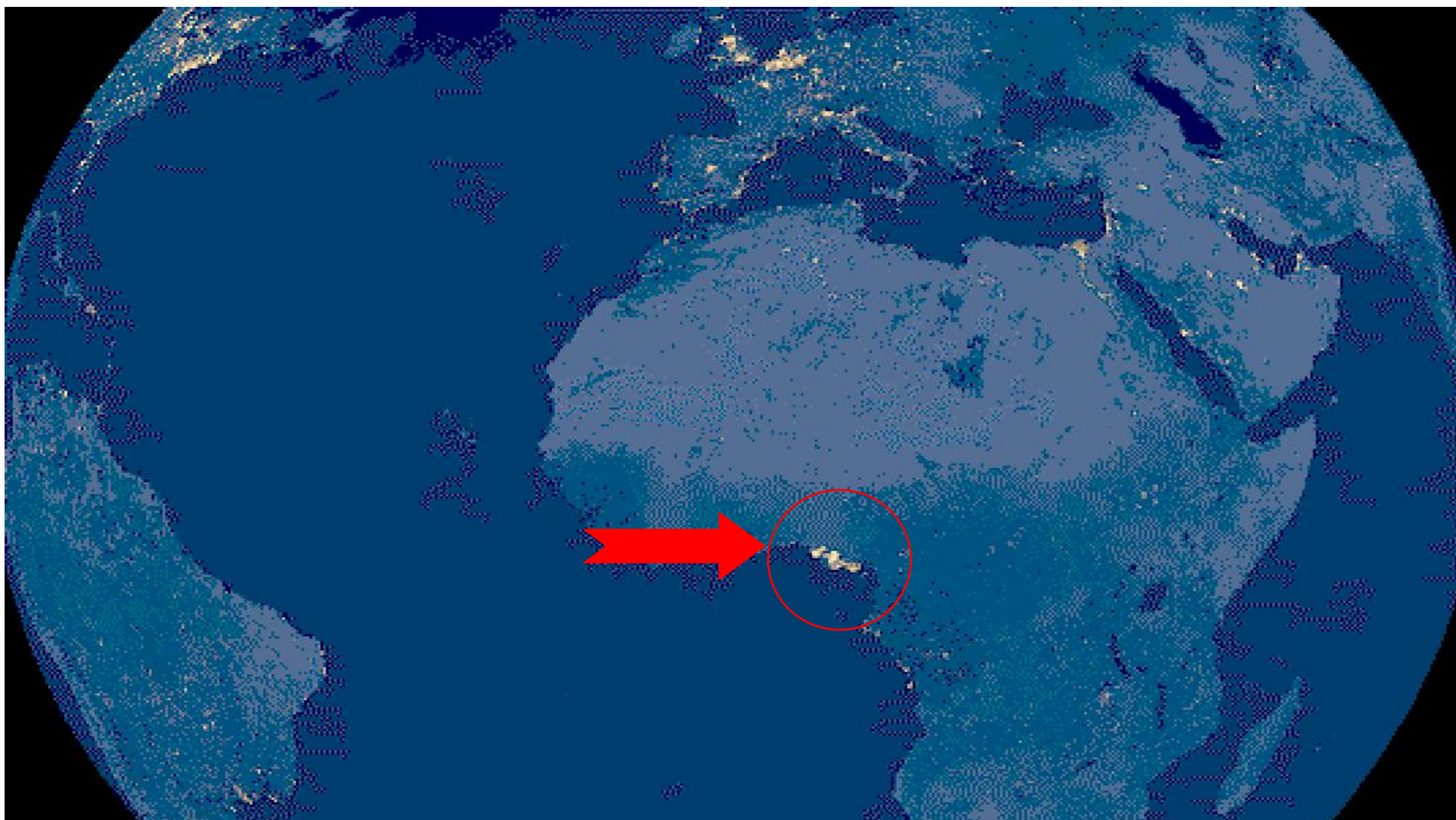
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eni's flaring down activities

- **eni** is implementing an ambitious plan to reduce emissions related to gas flaring and valorize associated gas
- These initiatives are mainly concentrated in Nigeria, the Congo, Libya and Algeria
- The purpose is to reduce flaring emissions in 2012 by 70% compared to 2007
- These projects will help the host countries by increasing their **national power generation capacity** and will provide the international markets with more **natural gas** and **LNG** (Liquefied natural gas)



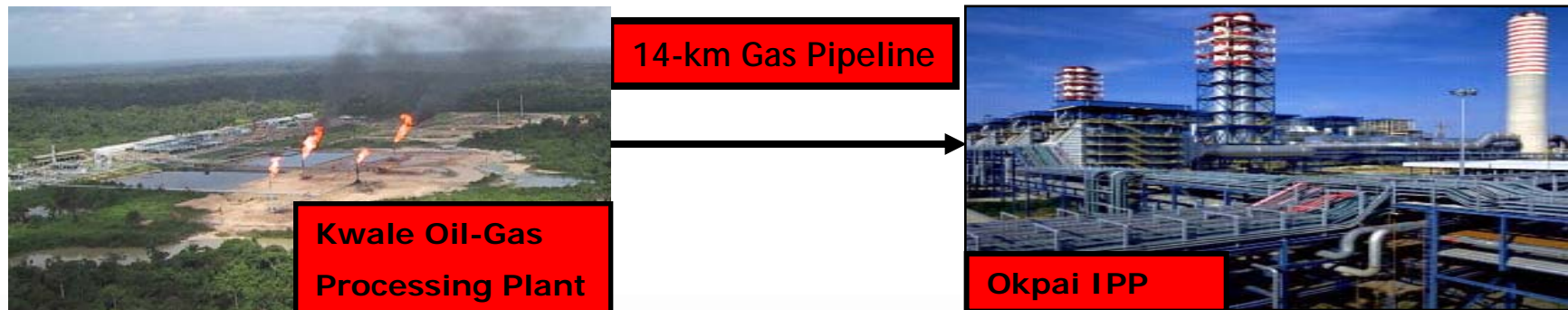
Flaring in Nigeria



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From waste to opportunity: the Kwale – Okpai project

- The Nigerian Government is promoting the valorization of associated gas
- In 2005 eni and its partners (Nigerian National Petroleum Company and Conoco-Phillips) inaugurated a 480 MW combine cycle power plant in Okpai
- The associated gas that was previously flared is now used to supply the power plant
- The project was registered as Kyoto Protocol's CDM activity in 2006



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From waste to opportunity: the M'Boundi - Djeno project

- In 2007 **eni** acquired the on-shore oil field of M'Boundi (Congo)
- **eni**, in accordance with the National Government, immediately started a project that is similar to the Okapi one
- The project involves:
 - ✓ repowering an existing 25MW single turbine plant
 - ✓ a brand new 450 MW plant
 - ✓ 55 km pipelines
- Currently the project is nearing completion



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Thanks for your time



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