

Energy Management System ("EnMS") OMV Petrom

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The essence of motion **PETROM**

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OMV Petrom - operationally integrated oil & gas company

Exploration and Production



Romania

- ▶ 4 mn toe/yr crude oil and NGL
- ▶ 5.2 bcm/yr gas
- ▶ 707 mn boe proven reserves (~11 yrs of current production)

Kazakhstan

- ▶ 0.4 mn toe/yr crude oil and NGL
- ▶ 0.1 bcm/yr gas
- ▶ 21 mn boe proven reserves

Refining and Marketing



- ▶ Petrobrazi refinery (4.2 mn t/yr capacity)
- ▶ 3.6 mn t marketing sales
- ▶ 785 filling stations (Romania, Bulgaria, Serbia, Moldova)

Gas and Power



- ▶ Gas sales 4.9 bcm/yr (up to 40% of Romanian demand)
- ▶ Brazi gas-fired power plant (860 MW)
- ▶ Dorobantu wind park (45 MW)

2013 FIGURES

Premises

Energy Efficiency in Petrom – core principles

Sustainability as part of the business strategy



Committed to **improve its energy performance**



Energy efficiency is about **energy security** and care for the future



Focused on **reducing energy consumption, greenhouse gas emissions** and other environmental impacts

Why an EnMS in OMV Petrom (ISO 50001)?



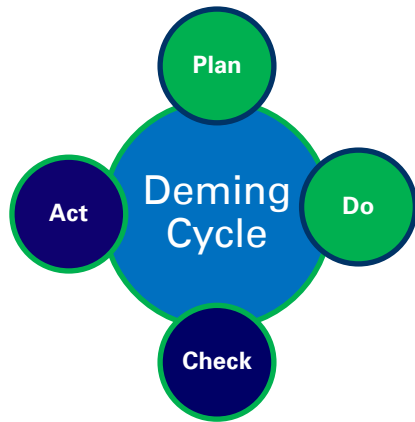
- ▶ OMV Petrom has already a strong culture of systematic process management (ISO 9001 and ISO 14001) – this makes **it easier for organizations to integrate energy management**
- ▶ Develop a **policy** for more efficient use of **energy**
- ▶ Fix **targets and objectives** to meet the policy
- ▶ Focuses on a **continual improvement** process to achieve the objectives
- ▶ The process follows the same **Plan-Do-Check-Act approach**
- ▶ **Harmonized standards for implementation across the organization** with a logical and consistent methodology for identifying and implementing improvements.

OMV Petrom's EnMS Certification - main benefits



- ▶ It proves that the energy **management system meets the requirements** and is working throughout the organization
- ▶ Gives customers, employees, management and all stakeholders more confidence that the organization saves **energy**.
- ▶ Enhanced **security of energy supply** as you will have identified your energy risk exposure in areas within the organization and commenced processes to reduce them
- ▶ Continual improvement of **operational efficiencies and maintenance practices**
- ▶ **Reduced greenhouse-gas (GHG)** emissions and carbon footprint
- ▶ **Additional cost savings** can be generated over several years.
- ▶ Provides support to **identify the right measures that will improve the energy performance**

What was done?



Plan

- ▶ Top management is committed for a energy management system
- ▶ Steering Committee for energy efficiency established
- ▶ Manager Representative for EnMS
- ▶ Energy uses were been identified and the opportunities for energy performance improvement prioritized.
- ▶ Petrom Energy Policy promoted internally

Do

- ▶ Objectives, targets and KPI's at divisional and corporate level.
- ▶ Resources ware made available and responsibilities determined.
- ▶ Manuals, procedures and work instructions are developed .

Next steps

Check

- ▶ Monitored processes with regard to legal and other requirements
- ▶ Internal audit to verify that the EnMS is functioning properly
- ▶ Monitored the objectives and targets of the EnMS
- ▶ The results are documented and reported to top management.

Act

- ▶ Management review.
- ▶ If necessary, corrective or preventive actions can be initiated.
- ▶ Energy-relevant processes are optimized and new strategic goals are derived.



Relevant Figures



Issued > 100 standards, procedures and work instruction

trained > 1000 employees



Performed > 80 cross divisional internal audits



Identified > 100 improvement opportunities

Thank You!



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