

PROJECT NAME	Energy management system (EnMS) through observation tours (EOT) and awareness program (EAP)
LOCATION	INA Group
DURATION	2015 – on going
OUTCOME	Decreasing energy cost, optimizing energy use, introducing BAT (Best Available Technologies) in energy relevant processes and projects

Project Description

▶ BACKGROUND

Energy management plays a key role in the oil&gas business. INA Group is committed to responsible use the energy and to continuous monitoring and improvement of energy performance in all business units, industrial plants, equipment, facilities, office buildings etc.

An Energy management system (EnMS) was introduced at INA Group (INA, STSI, INA MAZIVA and Croscos) in 2015, and an Energy Awareness Program (EAP) and Energy Observation Tours (EOT) were initiated, as tools for raising energy awareness and for continuously monitor the implementation of the related action plans.

The action plans were introduced for achieving measurable results of EnMS at INA Group. Three main objectives were set:

- Energy consumption decrease;
- Optimization of energy sources;
- Introduction of best available technologies related to energy.

▶ HISTORY

In Q4 of 2015, an Energy management system (EnMS) was put in place in INA Group. In parallel an educational programme for blue and white collar employees from refineries was introduced, named Energy Awareness Program (EAP).

More than 500 shift employees were educated through “Minute for Energy” programme. Refineries were the starting point of this educational campaign, since the cost of energy is a major operative cost at each site. The trainings were conducted in partnership by the Energy and HR Departments and followed the train the trainer model. Shift employees attending the programme were very open, shared their experiences and showed willingness to take actions to decrease the energy consumption and help improve the energy performance.

Having positive feedback from refinery trainings in 2016, the EAP was further extended to Logistic and INA MAZIVA d.o.o in 2017. The future target is to roll out the educational programme to Upstream, Consumer services and Facility management business lines.

In 2017 a new way of raising awareness on the energy performance was introduced – energy observation tour (EOT). EOTs were initiated by the Downstream Energy Department and performed at different locations in INA Group. Over 20 tours were conducted in 2017 and 30 are planned for 2018.

Project Results

▶ MAIN RESULTS AND OUTCOMES (WHAT CHANGED?)

Benefits for the company while applying EnMS are the following:

- business expenses decrease due to energy expenses decrease,
- decrease in greenhouse gas emissions;
- better reputation for the company,
- energy performance increased following a systematic approach.

Objective	MWh
Energy consumption decrease	1,153,035
Optimization of energy sources	18,522
Total	1,171,557

The table above re-caps how much savings (in MWh) has come as results of the action plans implementation, divided between two of the objectives. The data covers 2016-2017 year and is the sum of activities calculated on absolute basis principle.

As a result of the EAP, we expect that our employees will be more aware of energy conservation importance and will be able to identify and report/fix any unnecessary energy consumption

Outcomes of EAP:

- Raised energy awareness,
- Qualified employees encouraged towards energy savings through every day work activities,
- Education about energy management, design and purchase of the most optimal equipment, processes and services in energy field, and
- Energy consumption decrease through cost decrease, e.g. increasing of a refinery margin.



Outcomes of EOTs:

- Energy management experience discussion,
- Energy planning and optimization overview,
- Energy relevant projects status and realization overview,
- Energy savings opportunities discussion,
- Knowledge sharing and Energy Awareness Program status and results checking.

General outcomes:

Positive trend and actual decrease of energy cost or increase of energy performance on both, specific and absolute values defined through energy key performance indicators (EnPIs).

