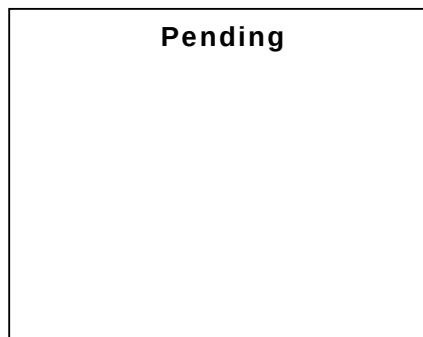


Energy Sector



Before



After

Project Install new alloy melting and grid moulding unit working on LPG rather than electricity

Client Description Chlorid –Egypt, Cairo – Alexandria Desert Road
The pre-assessment study stressed the necessity of switching from electricity to liquefied petroleum gas (LPG) in the lead-antimony furnace in the grid casting machine. This would increase productivity and profitability, introduce the CP principle and ensure compliance with environmental legislation.

The main object would be to:

- Decrease the consumption of electricity used caused by heat losses and pollution of the heaters by molten alloy.
- Avoid the emission of lead oxide produced from uncovered melting pots, which affects the working environment and thus the health of the workers in the area.
- Achieve compliance with Egyptian environmental law.
- Avoid maintenance costs caused by inefficient casting.
- Improve the quality of the molten product and melting efficiency.
- Decrease the costs of medical treatment, also a factor to be considered.

The option uses modern technology which reduces the cost of recasting and grid waste, and is a closed system which prevents emissions of lead oxide to the working environment. The introduction of this option would cost around EGP 648.600. ECO would contribute about EGP 450,000, while the balance would be paid by the company.