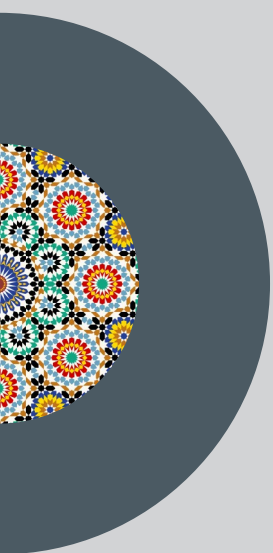


INSPIRATIONAL CATALOGUE



- Preparation of technical studies on the application of the improvement of energy efficiency and financing of best available techniques by loan of revolving fund
- Initial reviews and detailed audit to power various industrial sectors
- Application of energy management systems in accordance with standard ISO 50001
- The use of new and renewable energy technologies in industrial applications
- Contribute to the reduction of greenhouse gas emissions
- Supporting investment in energy generation from waste



| AREA | MEANS |
|--|--|
| Renewable energy | Switch to day light as innovative idea to save money and carbon offset. |
| Energy efficiency | <p>DETAILED AUDIT</p> <ul style="list-style-type: none"> Control energy consumption cost. Identifying technical tool to reduce consumption to a minimum. Classifying the whereabouts of wasteful consumption, and techniques necessary to implement a set of actions and projects that ultimately lead to reduce consumption of energy as a specific energy consumption <p>IMPROVE COMBUSTION EFFICIENCY</p> <ul style="list-style-type: none"> Recover exhaust heat Improving steam systems Advance thermal insulation Replacement of light sources are not provided with high efficiency Improve the power factor Replace conventional motors by high efficiency one Speed control of motors that operate on variable loads such as pumps, air blowers |
| Fuel switching | Erecting unit for melting lead and antimony alloy sealed and working by LPG rather than the open oven to reduce electricity consumption and reduce pollutants lead oxides of refractory crucible cover which posed a threat to the health of workers and the high consumption of electrical energy |
| Waste heat Recovery | Supplying melting furnace of sodium and potassium by heat exchangers to preheat combustion air and reduce heat losses and fuel consumption values and improve the quality of each ton product in addition to reduce gaseous pollutants. |
| Improving steam systems & Insulation | Installation of steam tank and vent to retrieve water blow down heat content and repair leaks and insulation inspection in addition to maintenance steam traps for condensate. |
| Control flow velocity of air pump injection *machines | Installing motor multi-speed VSD saving of 20-50% of the energy consumed in the management of the motor pump during injection. |
| Improving combustion Efficiency | Adjust the thermal performance of boilers and furnaces, and improvement of combustion efficiency by controlling the ratio of air to fuel using mobile gas analysis devices to reduce fuel consumption between 1-7%, which helps to reduce pollutants and their conformity with environmental law |
| Power factor correction | <ul style="list-style-type: none"> -Reduction of loss in distribution network and increase internal network capacity for electricity. -Increase the share of productive uses in generating capacity. -Contractual capacity reduction and the use of different scale for calculating the cost of KWh consumption. -Reducing emissions from reduced the decrease in the internal network which represent 5% of annual consumption of electrical energy. |
| Power factor correction | Installation of condensers to improve PF |
| Replacement of light sources with high efficiency lamp | Replace fluorescent longitudinal 60 * 60 (80 watt) headlamp by led provided 32 watt |
| Controlling separate AC units download | Use efficient and less consuming and more environmentally friendly in accordance with the energy efficiency code card upon consumption of the model if replace current devices or when you buy new hardware. |