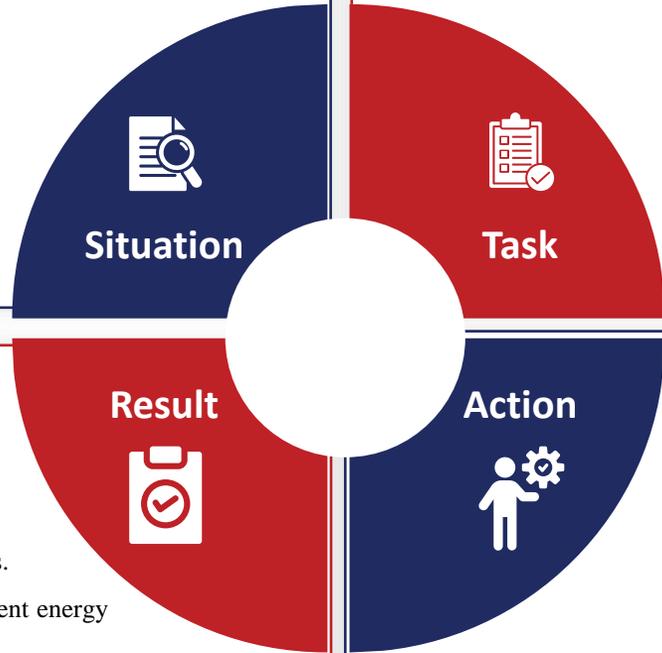


Case Study for a Major Float Glass Factory

- 600 Tons of float glass production per day.
- Installed capacity of 25MW mainly catering to Lehr Heaters, Tin Bath Heaters, Lehr cooling equipment etc
- Unstructured facility expansion during the last 6 years
- Excessive off-peak energy usages and unmanaged blind spots
- Unknown power factor, harmonics and power quality and energy disaggregation
- Unknown supply and load disturbances



- Mandate to maintain the quality of final product
- Mandate to achieve energy efficiency
- Want to monitor the energy consumption of different product lines as per the thickness of the final product.
- Need to establish a centralized monitoring mechanism which has the capability of
 - ❖ Alerting with escalation for any abnormalities in the quality of incoming power supply to the critical heating and cooling equipment
 - ❖ Any Time, Any Where access
 - ❖ Automated report generation and emailing.

- SEnergy made possible to
 - have a complete visibility for the energy consumption for the various production process/ product lines
 - Avoid opportunity costs of down time, reduced production and wastages.
 - Develop a detailed action plan to ensure a systematic process to implement energy performance measures.
 - Avoid frequent and expensive energy audits.
 - Reduce overall yearly OPEX by 10-12%
 - Create a clear roadmap towards sustainable growth by reducing the carbon footprint by 10-15%
 - Qualify for industry specific energy conservation references.
- Because of the positive impact created by the implementation, customer is planning to expand it to different production facilities across the region.

- Site infra assessment done to collect the existing detail
- Collected detail were analysed and a suitable solution proposed to address the pain points of the customer.
- Project sizing done and got confirmation from customer.
- Installed smart energy meters and monitoring hardware and networked to SEnergy Cloud.
- Integrated some of the smart meters existing in the facility
- Provided energy metrics of individual equipment for different product lines.
- Analysed the complete power quality with time stamps
- Notified the anomalies & threshold breaches by E-mail, WhatsApp and In-App on real time
- Provided visual analytics and reports
- Isolated and alerted O&M on wastage and loading pattern