Case Study for Gas Flow Monitoring

Situation

- A leading global manufacturer and supplier of Iron & Steel Pipe Products.
- Largest integrated plant in Middle East for producing DI Pipes and accessories.
- Wanted to justify the monthly bills paid to the federal gas supply utility
- Understand the gas consumption for the various process
- Improve safety of equipment and operator

Task

- Provide a better visibility for the gas consumption
- Measure the flow, temperature, pressure and consumption of the gas
- Make sure the supply of gas is optimal for the process
- Improve safety
- To measure and alert users about any threshold breaches happening in the parameters
- To quantify usage and wastage

Action

- Site survey done to identify the critical locations in which the flow meters to be installed.
- Collected the diameter and material of pipe on which the gas flow meters to be installed.
- Designed a suitable, Industry 4.0 based solution by SEnergy.
- Supplied & Installed IoT based smart gas flow meters and associated hardware and networked to SEnergy.
- Collected data from each meter in SEnergy Cloud for access and analysis.
- Provided SLD diagram with status indication on their SCADA screen
- Configured for
- Dynamic Dashboard in SEnergy.
- Hourly, daily, weekly, monthly and yearly reports from SEnergy.
- In App (Andriod and IoS) access for SEnergy
- E-mail/ In App reports and alerts to the person responsible for the system
- Provided visual analytics and reports

Result

- SEnergy thru it's Industry 4.0 solution, helped the stake holder to
- Improve the manufacturing efficiency, precision, resource optimization
- Enhance safety of operator & equipment by providing real time alerts
- Reduce cost
- Increase savings
- Understand pre-existing blind spots
- Helped to save energy close to 5 - 8% per year.