

Enero Solutions™ OSI-PI™ Energy Dashboard

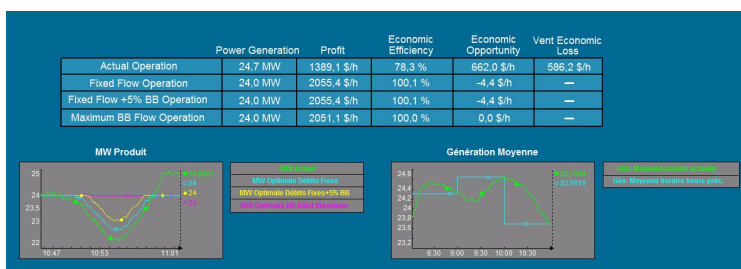
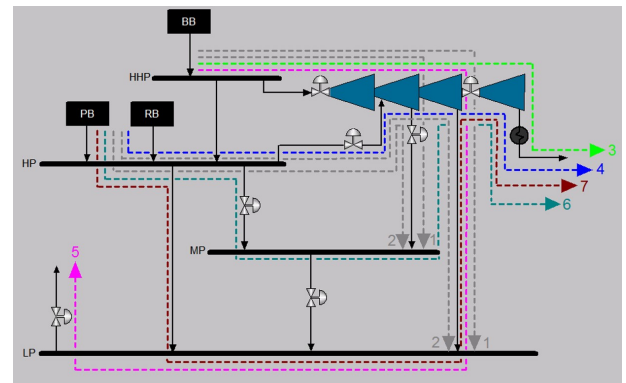
Energy System Monitoring

Optimum optimization and boiler efficiency are critical to the profitability of cogeneration plants. For steam systems to run as close as possible to their ideal operating point, visualization in real-time maximum profitability operation is essential.

Enero Solutions OSI-PI™ Energy Dashboard

Enero Solutions is a results-oriented, advanced controls and simulation company that has developed a tool to help cogeneration plants maximize their profitability. This tool, the OSI-PI Energy Dashboard, calculates in real-time historical and present optimum energy system operation as well as key performance indicators in real-time. The following are the benefit functions of the OSI-PI Energy Dashboard:

- Real-time operational profitability analysis**
 Real-time key performance indicators and optimal process parameters are calculated and compared to actual values, making it easier for plants to quickly modify and re-evaluate operational practices.
- Sharing optimal operational knowledge**
 Centralization of profitability KPIs in the plant's local OSI-PI system allows easy access for users to analyze.
- Long-term operational efficiency analysis**
 Historical KPIs of optimal operation calculation allows the analysis and evaluation of comparable historical steam-plant operation.
- Consulting historical operation efficiency**
 Past plant profitability KPIs can be calculated and the results used to populate the OSI-PI history database. This feature allows operational improvement initiatives to start immediately after the Dashboard implementation.

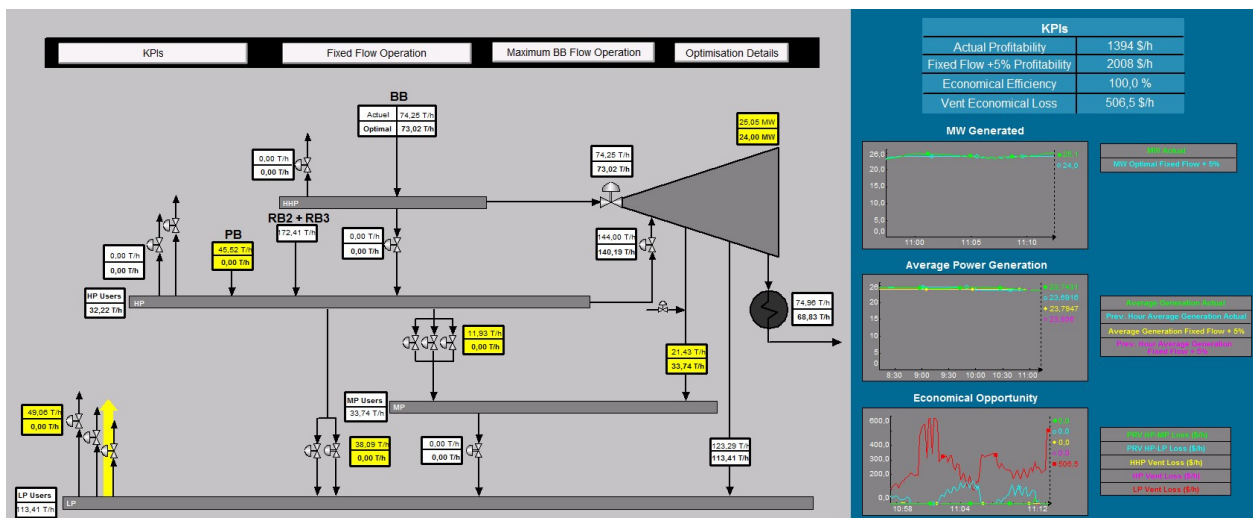


Enero Solutions offers a wide range of advanced control and engineering products that enable plants to operate at peak profitability, reliability, and efficiency.

Enero Solutions OSI-PI™ Energy Dashboard

With the increased complexity of power contracts and variable fuel costs, the assumption of operating a plant at maximum energy efficiency to capitalize on its overall profitability is no longer valid. This added complexity is solved by using the OSI-PI Energy Dashboard as an operational tool. The OSI-PI Dashboard calculates and recommends optimum profitability steam-system operation based on the following variables:

- Boilers Efficiency;
- Boiler maximum steaming rate (MCR);
- Steam turbine and CCGT characterization;
- Steam and fuel costs;
- Utility/Power contract;
- Plant steam demand;
- Steam path costs and priority;
- PRVs and Vents limitations



Enero Solutions™ - Process Performance Solutions

Enero Solutions is a leading provider of advanced engineering Process & Automation Control Solutions that help increase operational control and improve the profitability of Manufacturing, Pulp & Paper and Utility companies through the implementation of advanced engineering technologies.

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