



Energy performance monitoring

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The Energy Performance Indicator Tool (EnPI) V5.1.5 is a regression analysis-based tool developed by the U.S. Department of Energy's Advanced Manufacturing Office (AMO). The tool applies to businesses whether in the manufacturing sector, commercial buildings, federal agencies, data centers, or beyond.

Many companies have policies that prevent installation of external software components. Use of the EnPI tool requires a download of software to your computer. If you have difficulty downloading the EnPI tool, please send the following description of the EnPI tool (software) to your IT team to request assistance.

The EnPI tool is a standard executable Microsoft Excel COM add-in, which uses Microsoft Office libraries. The tool is downloaded from the Department of Energy (DOE) Software Tools website. The DOE website is a secure site and all tools located on the site are compliant with DOE's security policies.

Energy monitoring has long been common in downstream, primarily because downstream is a margins business. It is becoming increasingly common in upstream operations, driven by the need for demonstrable carbon reduction. Upstream assets tend to have acceptable operating envelopes for safety and reliability; therefore, optimizing with an energy-efficiency mindset is just an additional operating envelope.

The monitoring and optimizing of energy are important for older facilities that may not have incorporated energy-efficient design principles to remain competitive with newer, more energy-efficient facilities. It is also important for recently commissioned energy-efficient facilities because they may not operate efficiently if they are not monitored and optimized.

Every site should have a documented energy management system (EnMS). The EnMS should be reviewed regularly so that realized energy benefits are sustained and then improved upon. ISO 50001 - Energy Management, provides some guidance on how EnMSs can be set up, and this Info Sheet describes the components of a good EnMS.

Establishing a sustainable EnMS cannot be accomplished by only a few people. To have sustainable success, everyone at the facility should understand their role and accountability in improving the energy efficiency of the site. Each site should also develop, maintain, and update the site's energy plan, including energy improvement targets.

To assess and improve the effectiveness of the site EnMS, proper communication should be agreed to and implemented. Since the roles and accountabilities span across all groups/functions of the site, specific communications should be developed to target different audiences, with appropriate metrics. The communication frequency may vary but it should always provide information on past performance and then show areas of opportunity with who is accountable.

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