Superior Energy Performance Demonstration

The Need:

DOE's Advanced Manufacturing Office is partnering with the PA Department of Environmental Protection and PennTAP to conduct energy management demonstrations to help companies achieve ambitious industrial energy intensity reduction goals through strategic energy management.

The PennTAP Connection:

This work is being conducted as part of a DOE grant through the PA DEP. PennTAP Technical Specialists are providing training and implementation support to five industrial facilities.

The Project:

PennTAP is working with Pennsylvania companies implementing the elements of Superior Energy Performance (SEP), a recently adopted ANSI-accredited energy management certification program.

Certification to SEP includes implementation and certification to ISO 50001 – the international energy management standard adopted in 2011. In addition to first meeting the requirements of ISO 50001, SEP also includes a robust verification of energy savings.

To become certified a company needs to meet a 5% improvement in energy performance over a 3 year period.

The Outcome:

PennTAP has provided three 2½-day training workshops covering the Plan, Do, Check and Act elements of the Standard(s), the requirements of the measurement and verification protocol, and the use of a regression analysis tool available from DOE to model energy consumption and measure energy performance.

The companies are in the final stages of implementation and hope to become certified as early as Fall 2013.

The participating companies include:

- Curtiss-Wright (Cheswick)
- Gerdau Steel (Sayreville, New Jersey)
- Land O’Lakes (Carlisle)
- Mack Trucks (Macungie)
- North American Hoganas (Hollspool)

Ralene Molina-Kreiser
CP EnMS-Industrial
Senior Technical Specialist
156 Technology Center,
University Park, PA 16802
P: 814-574-0813
E: rxm174@psu.edu