

Learn more about the Benefits of ISO 50001 & DOE's 50001 Ready



U.S. Department of Energy's Sustainability Performance Office

Overview

An effective way for DOE's facilities and buildings to achieve their fullest potential in energy efficiency is to adopt programs & policies that improve energy performance on a continuing basis. DOE's 50001 Ready provides a self-check list for continuous energy improvement, based on the international standard. ISO 50001 has similarities to ISO 14001 which DOE sites are required to follow according to DOE Order 436.1 - allowing for easier implementation of both.

Facilities that are ISO 50001 certified or follow 50001 Ready are leaders in energy management and productivity improvement - improving their energy performance up to 30% over three years.

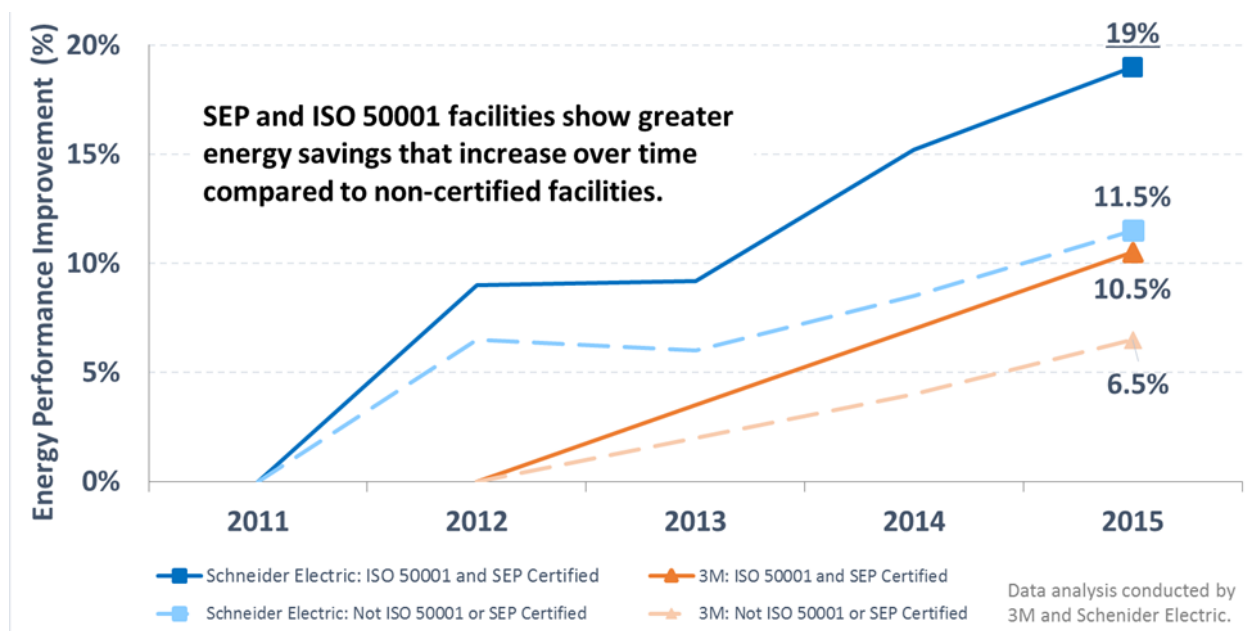
Energy Savings

Assuming a conservative estimated reduction of 10%, if all DOE sites were to implement ISO 50001 or 50001 Ready, we would save around 2,700 BBtu, which equates to \$40 million in cost savings.*

Average Industrial Plant Facility Savings:

- 12% reduction in energy costs within 15 months of starting implementation
- Annual savings of \$36,000 to \$938,000 using no-cost or low-cost operational measures
- Paybacks of **less than 1.5 years** in facilities with energy costs above \$2 million annually (less than 2.5 yrs. for those with energy costs of \$1 million per yr.)

Schneider Electric & 3M Case Study



Savings at certified facilities were greater, on average, compared to non-certified facilities:

- ⇒ 3M: 62% more savings realized over a 3 year period. 18 ISO 50001 certified facilities across 7 economies.
- ⇒ Schneider Electric: 65% more savings realized over a 4 year period. 20 ISO 50001 certified facilities in North America.

**This calculation uses DOE's FY18 data to estimate potential savings with a 10% reduction in energy consumption, and takes into account that ISO 50001 and 50001 Ready only impact on-site energy usage. Thus, off-site renewable energy (RE) green electric purchases and RE green energy purchases have been excluded.*