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## **BOEM-S a Tool to Measure ISO 50001**

**Part I - History, Goals & Benefits**

**White Paper**

April 2014

## 1. The History of M&T

The methodology of M&T (Monitoring & Targeting) is a management tool built on ISO 50001 standard and a technique based on the following axiom:

**"You can't manage if you don't measure"**

In other words, on many organizations "One who does not measure or measures badly, only has a vague idea".

The program BOEM-S contains a M&T module which provides to the managers the necessary information feedback to perform management based on current and expected energy consumption, but also relevant information with regard to technical problems and obsolete equipment, ie, prevents serious repairs (condition monitoring) and foresees the need to replace existing equipment with more efficient and adequate to the organization's needs.



## 2. Goals and benefits

The goals of the program BOEM-s and its M&T module are as follows:

- ▶ Help managers to make management decisions on energy that the organization or its production units consume;
- ▶ Identify and explain the relationship between energy use with setup KPIs (Key Performance Indicators) relating to the production, energy consumption, environmental conditions and raw materials etc;
- ▶ Defining trends of energy consumption (weekly, seasonal, operational ...) anticipating future consumption; in other words, the projection of consumption and costs;
- ▶ Diagnose specific areas of energy waste;
- ▶ Observe how the business reacted to changes in the past;
- ▶ Development and implementation of performance targets for the several energy management programs of an organization;
- ▶ Management of energy consumption, instead of accepting the cost / energy consumption as something on which there is no control;
- ▶ Implementation of alarms above or below which certain variables or KPIs are unacceptable to the organization.

The main goal is to reduce energy costs by searching for increased energy efficiency of the facilities and a proper management of energy consumption.

Other goals are affected by being associated with energy consumption, such as CO2 emissions, maintenance and asset management (plants, production lines etc.).

The M&T technique was first developed in England in 1980, quickly spreading as a management technique in Europe.



## Goals and benefits resulting from M&T projects:

- ▶ Savings on energy bills: generally between 5% and 15% of the original cost;
- ▶ Reduction of greenhouse gases;
- ▶ Financing: Reducing energy consumption helps to get funding for the implementation of new projects, and then make the organization more efficient;
- ▶ More rigorous accounting for the incorporation of energy into product costs, as the measure of the energy used in manufacturing sub-process allows the optimization of processes;
- ▶ More rigorous budgeting, since it allows the projection of energy costs in the event of market changes;
- ▶ Avoids losses, since it identify and diagnose the losses in sub-processes.

**Concluding: it lets you produce the same with less cost!**



**WINNER**  
Clean Shipping



Av. Dr. Francisco Sá Carneiro  
Núcleo Empresarial de Mafra | Pav. 36-A  
2640-486 MAFRA

Telf: 261 819 819  
[www.tecnoveritas.net](http://www.tecnoveritas.net)