



Monitoring, Targeting and Reporting

A Path to Continuous Improvement in Energy Management

Leading industrial organizations strive for continuous improvement in the efficiency, productivity and performance of their systems. In order to achieve progress, it's important for companies to establish effective processes that monitor and review results against performance targets.

BC Hydro's Monitoring, Targeting and Reporting (MT&R) program provides a platform for continuous improvement in energy management for industrial organizations. MT&R is a proven method for measuring and maintaining energy performance, and for identifying opportunities to improve energy efficiency. After a long history of success in Europe, MT&R is now being effectively applied to industrial settings in North America as an innovative approach to energy management.

Industrial operations use large amounts of energy and have complex production systems. As a result, they have the potential to realize considerable energy improvements. The framework provided by MT&R – for ongoing targeting and measurement – turns energy data into information and allows companies to optimize their performance capabilities.

Benefits for Industrial Customers

MT&R enables you to monitor energy use, set appropriate energy reduction targets, and improve the quality of energy reporting, helping to:

- Improve the performance of your operations
- Gain a better understanding of the key drivers of energy consumption in your operations
- Reduce your electrical energy consumption
- Enhance the value of energy reporting within your organization
- Improve the ability of operators to manage energy consumption
- Maintain the consistency of your energy-efficiency improvement activities
- Environmental benefits such as reduced waste and decreased green house gas emissions.

Ultimately these benefits will reduce operating costs and improve your company's bottom line.

By working together, we'll identify the best and most sustainable energy management program for your business – one that's focused on continuous improvement. The result? Reduced energy and maintenance costs and improved productivity, making your business more competitive.



How it Works

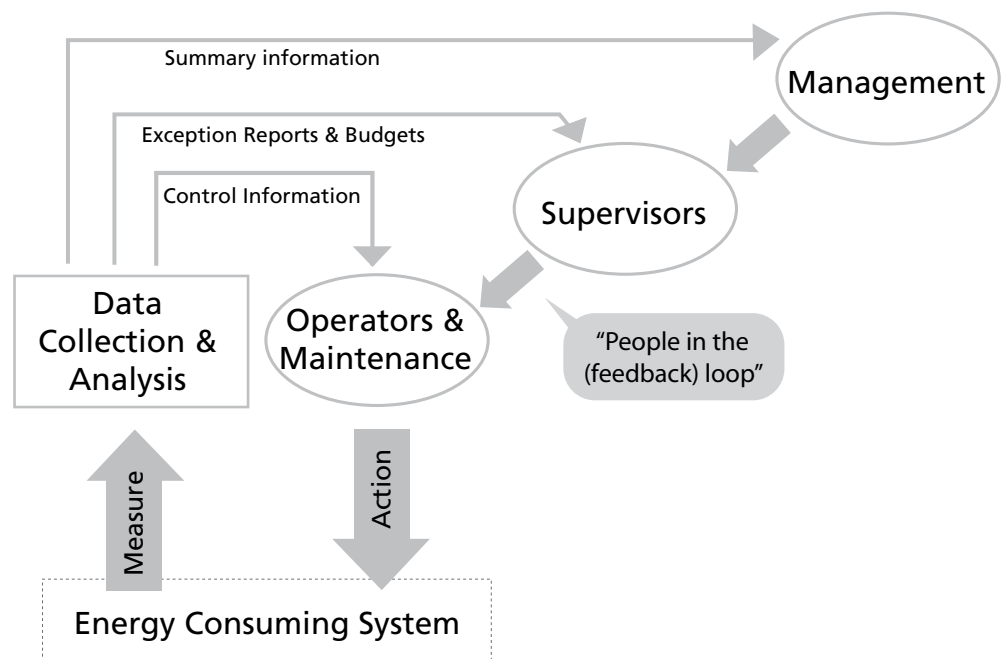
Understanding your company's current energy situation is a vital first step in improving your energy performance. However, collecting data is not enough. Organizations that track their energy consumption can find themselves with too much data and not enough information. MT&R provides a formal, results-based approach to collecting, analyzing and utilizing information.

MT&R is based on principles of statistical process control and energy accounting. It involves four key information management techniques:

- Collection of data and information on energy, production and other variables

- An energy performance model that relates energy consumption to production parameters (regression analysis or another appropriate correlation)
- Cumulative Sum of Differences (CUSUM) Analysis: a statistical analysis technique that measures the ongoing changes between actual and predicted values.
- Energy performance control charts: to provide information allowing operations to manage downward consumption.

These techniques provide the foundation for establishing energy performance targets and reporting for action. MT&R puts energy use information in the hands of people who manage it, giving them the tools to plan and implement continuous improvement strategies.



WHEN YOU KNOW WHERE TO LOOK



How BC Hydro Can Help

BC Hydro, in partnership with industry energy experts, provides expertise and funding to help industrial transmission customers implement MT&R programs, suitable for their unique business needs, at their facilities.

We begin the process with a one-on-one interview to assess your company's suitability for implementing, and benefiting from, an MT&R program. If there is an appropriate fit with the program, BC Hydro will provide financial support through the five stages described below.

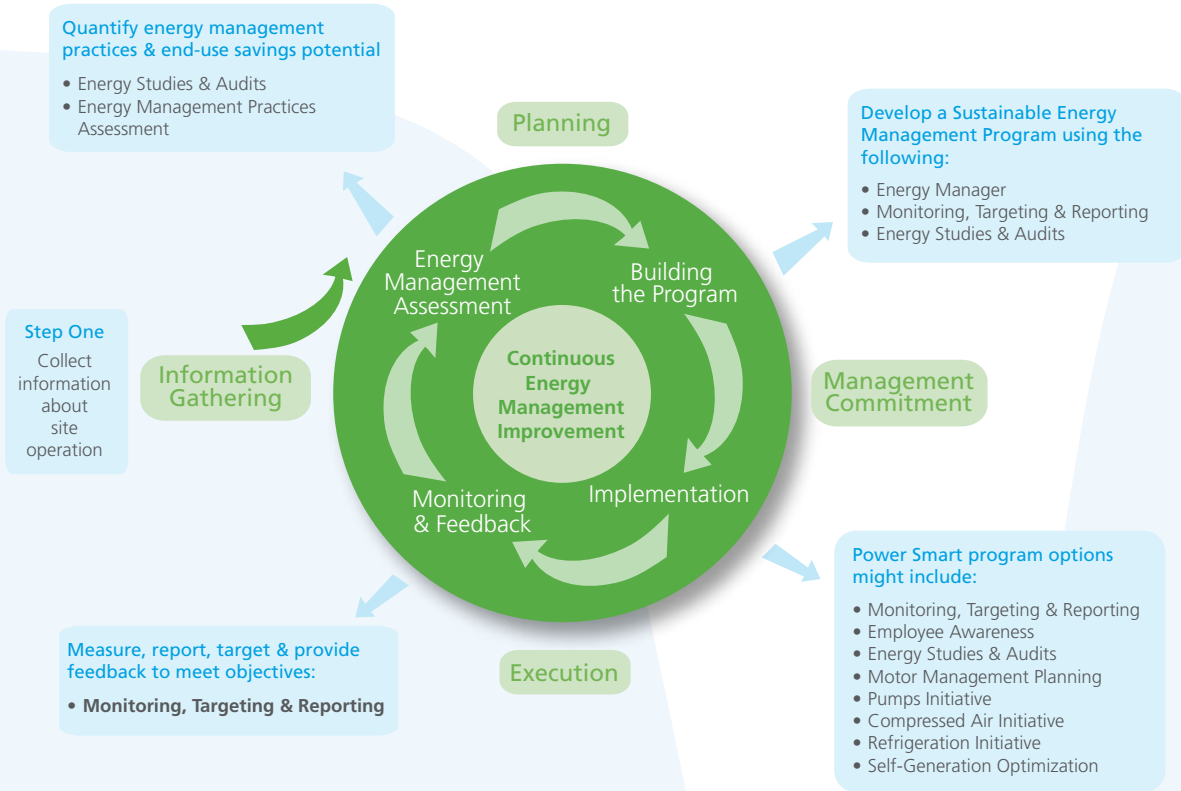
For More Information

To find out more about Monitoring, Targeting and Reporting, contact your BC Hydro Key Account Manager, or call 1 866 453-6400 or email industrial@bchydro.com.

Stage	Activity	Description	BC Hydro Support
1	Data Presentation	Presentation of facility data with high-level analysis	Provided by BC Hydro.
2	Workshop	Custom MT&R workshop facilitated by BC Hydro	BC Hydro will fund the cost of the workshop facilitator.
3	Operational Energy Analysis	Investigation of the cost, benefit and process for implementing MT&R	BC Hydro will fund the cost of an MT&R consultant to perform an Operational Energy Assessment.*
4	Implementation/ Integration	Provision of specification for reporting and process for targeting and reporting; installation of hardware, software or IT programming	BC Hydro will fund a portion of the cost of an MT&R consultant, or for MT&R software tools.*
5	Continual Improvement	Ongoing CUSUM reporting	BC Hydro will provide support for ensuring that CUSUM reporting is maintained and the results are consistent.

* to a maximum amount

Sustainable Energy Management Program



A Comprehensive Approach to Manage Energy and Costs

BC Hydro offers Power Smart Partner Transmission customers a comprehensive and integrated approach to sustainable energy management. Whether your business goal is to reduce operating costs, improve competitiveness and profitability, improve

facility environments or show corporate leadership through environmental practices, we can facilitate solutions to meet your needs. We offer programs including Energy Manager, Energy Studies & Audits, Employee Awareness & Training, Monitoring, Targeting & Reporting, and Motor Management Planning.

Conservation is the first and best way to help meet B.C.'s future electricity needs.



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