
CORPORATE ENERGY MANAGEMENT

Effective Date: July 11, 2014

Approved By: GVRD Board

Policy No. GV-003

PURPOSE

To define the objectives for managing energy in Metro Vancouver operations and activities and to provide the principles and criteria to develop an Energy Management System.

DEFINITIONS

“Energy Management System” A set of interrelated or interacting elements to establish energy objectives, as well as the processes and procedures to achieve those objectives;

“ISO 50001: 2011 – Energy Management System” ISO 50001 is the internationally recognized standard for energy management. Established by the International Organization for Standardization (ISO), it specifies the requirements for developing and maintaining an Energy Management System to achieve continual improvement in energy performance. A systematic approach has been developed to reduce organizational operating costs and greenhouse gas emissions;

“Energy Performance” The amount and cost of energy used by an asset or system to accomplish a task or provide a service; and

“Renewable Energy” Energy that operates within the current natural carbon cycle, in comparison to fossil fuel-based energy, which introduces additional ancient carbon into the current carbon cycle and increases the concentration of greenhouse gases in the atmosphere thus contributing to climate change.

POLICY

Metro Vancouver commits to continuously improving Energy Performance in its operations, and to continuously improving the efficiency with which it produces, generates, and recovers energy. This Policy is consistent with Metro Vancouver’s ongoing commitments to carbon neutrality and fiscal responsibility. Any recommendations emanating from this Policy will be evaluated using triple bottom line analysis methods.

This Policy is derived from the first three strategies of the *Corporate Climate Action Plan* presented to the GVRD Board in 2010:

- Reduce energy consumption
- Switch to Renewable Energy
- Maximize energy recovery

BOARD POLICY

These three strategies are consistent with the direction provided in the *Board Strategic Plan* adopted by the GVRD Board in 2014.

ENERGY MANAGEMENT SYSTEM

Metro Vancouver will develop an Energy Management System to support this Policy. The Energy Management System will address Energy Performance, energy recovery, and the transition to Renewable Energy by building ISO 50001: 2011 – Energy Management System principles into Metro Vancouver practices. The Energy Management System will include:

- Establishing substantiated, realistic, and measurable targets that motivate continuous improvement and are consistent with other objectives;
- Developing a strategic energy management planning process for achieving these targets using triple bottom line analysis methods;
- Regularly monitoring and reporting on progress toward meeting these targets using a corporate energy and greenhouse gas tracking system;
- Establishing processes that continuously improve Energy Performance in planning, design, procurement, construction, operation, and maintenance of Metro Vancouver assets and services;
- Providing access to energy information and training for staff; and
- Empowering staff to generate solutions that meet the objectives of this Policy.

Application

This Policy applies to the planning, design, procurement, construction, operation, and maintenance of facilities, vehicles, and equipment owned or operated by Metro Vancouver or by third parties on Metro Vancouver's behalf. It governs the production, generation, recovery, and use of:

- Purchased energy for the operation of utilities, fleet, and facilities and including electricity, natural gas, liquid petroleum products, and propane;
- Energy related to air, marine, and ground travel for corporate business;
- Electricity generated from Metro Vancouver operations and facilities;
- Thermal energy produced from the combustion of biomethane and municipal solid waste;
- Energy and fuel produced by, generated by, or recovered from Metro Vancouver operations, infrastructure, and facilities and including biomethane, sewer heat, trucked liquid waste, refuse, biosolids, potential energy in water reservoirs, solar energy, biomass, and wind energy; and
- Other forms of energy at Metro Vancouver.

BOARD POLICY

The Policy also governs investment in equipment and design that facilitate a transition to renewable energy.