

MCES 2015 Energy Goal

GOAL

Reduce MCES facilities' estimated purchase of energy for continuing operations by 25% as compared to 2006 baseline use by year end 2015 - while achieving or exceeding our current levels of service.

APPROACH

We will reduce our energy usage by implementing energy efficient technologies and optimizing processes that result in actual energy savings. In addition, the purchased energy may be reduced by the implementation of renewable energy technologies for internal energy use such as solar, wind, thermal recovery, biomass and biogas production.

We will use 2006 as the base year with the subsequent years normalized for weather (for non-process weather dependant loads), permit changes, new plants for new service areas excluded, and other parameters (as may be approved by Environmental Services Management Team (ESMT) to yield a fair comparison of the result of energy initiatives on continuing operations.

MEASUREMENT

We will track annual purchased energy by converting all energy use to BTUs. For example, the electricity use in BTU's shall be derived by multiplying each KWh purchased by 3413 to get BTUs used and for natural gas use each therm of natural gas purchased by 100,000 to get its BTUs.

RESPONSIBILITIES

Net energy purchased (in BTUs) shall be computed by the Plant Support Services group, and monitored and reported quarterly by the Environmental Quality Assurance Team to the ESMT. The MCES Energy Team will provide oversight throughout the term of the goal.

DEFINITIONS

"MCES facilities" includes:

- all Council owned facilities and vehicles used for wastewater purposes (managed by MCES)
 - o *excluding* any capital project energy use where use is not included/ metered at existing MCES facilities
 - o *excluding the* Robert Street offices (used mostly by other divisions)
- Metro 94 space managed by MCES

"Energy Purchased" means the BTU value of all types of energy used for MCES facilities during the calendar year, including but not limited to: electricity (kWh), natural gas (therms), diesel fuel, propane and motor vehicle fuel.