

ECMs

This non-exhaustive list of Energy Conservation Measures (ECM), Renewable Energy Improvements and Water Conservation Measures (WCM) is intended as a reference only.

Energy Saving measures:

- High efficiency lighting and/ or lighting sensors and controls.
- Heating ventilation air conditioning (HVAC) upgrades
- New automated building, lighting and HVAC controls
- Variable speed drives (VSDs) on motors fans and pumps
- Variable frequency drives, energy recovery ventilators (ERV), heat recovery ventilators (HRV), demand control devices, including energy storage systems
- High efficiency chillers
- High efficiency boilers and furnaces
- High efficiency heat pumps (suitable for use in a cold climate zone)
- High efficiency hot water heating systems
- Geothermal energy/ geoexchange
- Combustion and burner upgrades
- Fuel switching resulting in an overall reduction in the number of BTUs required to achieve a given end use
- Heat recovery and steam traps
- Building enclosure/envelope improvements, including insulation, air sealing, window retrofit, and window replacement
- Building automation (energy management) systems
- New automated process controls
- Heat recovery from process air and water
- Cogeneration used for peak shaving
- Process equipment upgrades
- Process changes

Renewable Energy Improvements

- Solar photovoltaic power
- Solar thermal
- Wind Power
- Fuel Cell
- Methane Gas from landfills
- Methane gas from anaerobic digestion
- Low emission advanced control technologies:
- Sustainable Biomass Facility used for heating and/or generation



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Water Conservation Measure

Domestic water use can be impacted greatly by recalibration of toilets and urinals, or replacement with low-flow toilets and waterless urinals

- Adding aerators to faucets or installation of new faucets in kitchens and bathrooms
- Commercial kitchens can save water through the replacement of pre-rinse valves, dishwashers, and icemakers.
- Laundry equipment in commercial properties; laundromats can save significant amounts of water with upgraded equipment.
- Condensate water reuse for cooling towers, for steam boilers, irrigation, evaporative coolers, industrial laundry, decorative water features, water cooled equipment, and air conditioners.
- Industrial water consumption from car washes, film and x-ray processing, and high-tech manufacturing can be reduced through the installation of equipment involved in each specific process/facility.
- Replacement of Toilets with low-flow toilets and/or waterless urinals
- Installation of new faucets that have reduced waterflow
- Replacement of pre-rinse valves, dishwashers, and icemakers in commercial kitchens
- Condensate water reuse for cooling towers, for steam boilers, irrigation, evaporative coolers, industrial laundry, decorative water features, water cooled equipment and air-conditioners.
- Implementing processes or equipment, that demonstrates water savings of 25% or more including:
 - Hot water recirculation systems using circulating pumps
 - Cooling tower conductivity controllers
 - Demand-initiated hot water systems
 - Filter upgrades
 - Deionization
 - Recycled water sources

INELIGIBLE Measures

The following items will not be considered as eligible ECM under the Program Administrator program:

- Measures that are not permanently attached to the subject property or building and which can be easily removed
- Screw in Compact fluorescents
- Plug load devices
- Measures that save energy solely due to operational or behavioral changes
- Any measure that cannot be explained in terms of industry-standard engineering or scientific principles
- Any measure that is not yet commercially available. Commercially available items are defined as goods, services or items that have been offered for sale, lease, or license to the general public through the commercial marketplace.
- Vending machine controllers.
- Refrigerant charge (AC/Split Systems/Heat Pumps)



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