



WATER RESOURCES MANAGEMENT IN AN EMERGING CARBON MARKET

CONSERVING WATER TODAY WILL HELP CONSERVE ENERGY TOMORROW

For every million gallon reduced
in public water consumption
an estimated:

- 1.6 MT of CO₂e is avoided from
reduced drinking water treatment.
- 1.25 MT CO₂e is avoided from
reduced waste water treatment.

-NVOC, 2009

On average 40% of US
Municipal energy needs
are used for water
treatment, distribution,
and wastewater treatment.

-EPA, 2008

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By 2015 the growth of the Energy
Star Program is expected to save
600 MGD directly, and 430 MGD in
power plant cooling water.

-EPA 2008

On average 1/2 gallon of
water is used for every kwh
of electricity generated

-NVOC, 2009

ENERGY SAVING MEASURES BEYOND JUST THE LOW HANGING FRUIT

Metering
Programs

Preserving
Green
Space

Industrial
Water
Audits

Pipeline
Replacement

Green
Roofs

Bioretention
Facilities

Rain
Barrels

Green
Paving

Dishwashers

Leak
Detection

High
Efficiency
Toilets

PV-Solar
and Wind
PPA's

Electronics

Renewable
Cogeneration

CFL

Refrigerators

Weatherizing

Rain
Sensors

CO₂e REDUCTIONS TREE

ACHIEVING CARBON REDUCTION GOALS THAT EXCEED A THOUSAND METRIC TONS CAN BE ATTAINED THROUGH VARIOUS EFFORTS. THE FIRST PUSH IS THE EASILY ACHIEVABLE THROUGH ENERGY EFFICIENCY UPGRADES ("LOW-HANGING FRUIT"). FOR LONG-TERM CO₂E REDUCTION WE NEED TO REACH HIGHER AND STRIVE TO CONSERVE OTHER NATURAL RESOURCES SUCH AS WATER. WATER CONSERVATION DOES HAVE AN IMPACT ON ENERGY CONSERVATION, AND THE BENEFITS OF WATER CONSERVATION GO FAR BEYOND SIMPLY REDUCING CO₂E. IT ALSO REDUCES FLOODING, INCREASES WATER QUALITY, AND PRESERVES NATURAL ECOSYSTEMS!