

Appendix 7- Examples of Green BMPs for Water

1. EPA Region 8 Low Impact Development and Green Infrastructure in the Semi-Arid West:

<http://www.epa.gov/region8/greeninfrastructure.html>

2. Colorado Wastewater State Revolving Fund Categorical Green Projects:

Green Infrastructure

- Implementation of Green Streets
- Wet weather management systems for parking areas
- Implementation of comprehensive street tree or urban forestry programs
- Stormwater harvesting or reuse projects
- Management of stormwater onsite instead of introducing it into the sewers
- Comprehensive retrofit programs to keep wet weather discharges out of the sewers using green infrastructure technologies
- Establishment or restoration of permanent riparian buffers, floodplains, wetlands and other natural features
- Management of wetlands to improve water quality and/or support green infrastructure efforts (e.g. flood attenuation)
- Practices that preserve and restore site hydrologic processes through sustainable landscaping and site design
- Fee simple purchase of land or easements on land that has a direct benefit to water quality.

Water Efficiency

- Installing or retrofitting water efficient devices
- Installing any type of water meter in previously unmetered area
- Replacing existing broken/malfunctioning water meters, or upgrading existing meters with either automatic meter reading (AMR) systems or meters with built in leak detection
- Retrofitting/adding AMR capabilities or leak detection equipment to existing meters
- Water audit and water conservation plans
- Recycling and water reuse projects that replace potable water with non-potable sources
- Retrofit or replacement of existing landscape irrigation systems
- Retrofit or replacement of existing agricultural irrigation systems

Energy Efficiency

- Renewable energy projects
- Projects that achieve a 20% reduction in energy consumption
- Collection system Infiltration/Inflow (I/I) detection equipment
- Publically Owned Treatment Works(POTW) energy management planning

Environmentally Innovative

- Total/integrated water resource management planning
 - Utility Sustainability Plan
 - Greenhouse gas (GHG) inventory or mitigation plan
 - Planning activities by a POTW to prepare for adaptation to the long-term effects of climate change
 - Construction of US Building Council LEED certified building or renovation of an existing building on POTW facilities.
 - Decentralized wastewater solutions to existing deficient or failing onsite wastewater systems
3. Drinking Water Revolving Fund Categorical Green Projects:

Green Infrastructure

- Pervious or porous pavement
- Bioretention
- Green roofs
- Rainwater harvesting
- Gray water use
- Xeriscape
- Landscape conversion programs
- Moisture and rain sensing irrigation equipment

Water Efficiency

- Installing or retrofitting water efficient devices
- Installing any type of water meter in previously unmetered area
- Replacing existing broken/malfunctioning water meters, or upgrading existing meters with either automatic meter reading (AMR) systems or meters with built in leak detection
- Retrofitting/adding AMR capabilities or leak detection equipment to existing meters
- Conducting water utility audits, leak detection studies, and water use efficiency studies
- Developing conservation plans/programs
- Recycling and water reuse projects that replace potable water with non-potable sources
- Retrofit or replacement of existing landscape irrigation systems
- Projects that result from a water efficiency related assessment
- Distribution system leak detection equipment
- Automatic flushing systems
- Pressure reducing valves
- Internal plan water reuse

Energy Efficiency

- Renewable energy projects

- Utility energy management planning
- Use of National Electric Manufacturers Association (NEMA) Premium energy efficiency motors

Environmentally Innovative

- Total/integrated water resource management planning
- Utility Sustainability Plan
- Greenhouse gas (GHG) inventory or mitigation plan
- Source Water Protection Implementation Projects
- Construction of US Building Council LEED certified building or renovation of an existing building owned by the utility, which is part of an eligible DWSRF project

In addition to those projects listed above as categorically green, there are a variety of other projects that may be considered green following the evaluation of a business case. A business case is a due diligence document. A business case is required to demonstrate that an assistance recipient has thoroughly researched anticipated green benefits of a project. The purpose of a business case is to document identifiable and substantial green benefits of a proposed project. The business case is reviewed and approved by the WQCD Engineering Section.