## **SUMMARY OF GREEN TECHNOLOGIES**

(From EPA Green Infrastructure Guidance)

## \*All projects must be principally for water quality/public health purposes and be cost-effective.

Categories	Categorically Green Projects	Non-Categorically Green Projects (require Business Case)
Green	Street & parking areas:	CWSRF (NPS)
Infrastructure	permeable pavement	Livestock fencing
	bio-retention	Stream buffers
	• trees	
	green roofs	DWSRF
	Stormwater use	No common examples in drinking water
	Downspout disconnection	
	Riparian buffers	
	Most agricultural BMP's	
10/	(See PENNVEST NPS Program Guidance)	OWODE
Water	CWSRF	CWSRF
Efficiency	Wastewater reuse	No common examples in wastewater
	DWSRF	DWSRF
		Pipe replacement/rehab to:
	<ul> <li>Meters in previously unmetered areas</li> <li>Replacement of broken meters with AMR meters</li> </ul>	Save large amounts of water and energy from reduced pumping
	A 10 AAAD 100 1 1 1 1 1 1 1	Prevent breaks
	Adding AMR capability or leak detection to existing meters	Water meter replacement with traditional water meters
	Recycling that replaces potable water with non-	• Water meter replacement with traditional water meters
	potable water	
	Leak detection equipment	
	PRV's	
Energy	CWSRF & DWSRF	CWSRF
Efficiency	Renewable energy generation to serve POTW needs:	Projects which save less than 20% energy but have short pay-
	• wind	back periods
	• solar	
	geothermal	DWSRF
	biogas	Energy-efficient retrofits (including VFD's)
	Projects that achieve a <b>20%</b> reduction in energy	Upgrade to energy-efficient lights
	consumption.	SCADA that saves significant energy
	Collection system Infiltration/Inflow (I&I) detection	
	equipment	OWODE
Innovative	CWSRF	CWSRF
Infrastructure	Decentralized wastewater treatment solutions	Wastewater treatment using constructed wetlands
	(systems which serve a small number of homes	Technologies which reduce residual volume or reduce chemicals
	usually with small-diameter piping and local treatment often with a communal septic system).	in residuals
	onen with a communal septic system).	Other technologies which have not yet been demonstrated in  Pannaulyania
	DWSRF	Pennsylvania
	No common examples in drinking water	DWSRF
	The second of th	Technologies which reduce chemical use, residual volume or
		reduce chemicals in residuals