

## ANNEX H

This Annex provides a list of examples of projects that could fall within the scope of the four priority themes (covering the respective economic sectors) and could integrate two or more of the priority issues.

<b>1. Mitigation of water stress in coastal zones</b>	
Conservation of rain water and surface water	Water treatment systems customised to use of rain water  Detection and mitigation at pollutions source
Alternative forms of irrigation	Technologies for cascading of reclaimed water from urban areas to park irrigation and to agriculture
Water saving/water efficiency measures	Use of technical measures for sea water intrusion mitigation: horizontal wells and directional wells for active barriers, treatment and reuse of treated waters  Demand and supply balancing models Non steady state hydraulic modelling of salt water intrusion and hydro-geochemical modelling  Configuration for artificial groundwater recharge from fresh water coastal and submarine springs in winter time  Environmental friendly technologies to add water from desalination  Water treatment systems customised to water source and treated water use
Crops consuming less water	Development of low input cropping systems aiming for products for alternative use

<b>2. Sustainable water management inside and around large urban areas</b>	
Alternative forms of irrigation	Technologies for cascading of reclaimed water from urban areas to park irrigation and to agriculture
Water saving/water efficiency measures	Small and mid sized decentralized treatment plants suited to built environments Multi barrier treatment systems for improved water reuse Real time monitoring of treated water quality for reuse Selective removal processes for industrial point sources for improved reuse possibility of the treated municipal wastewater and sludge

<b>3. Sustainable water management for agriculture</b>
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Conservation of rain water and surface water	<p>Development or upgrading of rain harvesting for increasing soil water holding capacity</p> <p>New technologies and management methods for safe reuse of treated surface water run-off from urban areas</p> <p>Environmentally safe slurry storage, separation, and recycling technologies</p>
Alternative forms of irrigation	New technologies and management methods for safe reuse of treated wastewater from municipal and/or industrial activities
Water saving/water efficiency measures	<p>Improve technology and methods for use and reuse of brackish, drainage, saline water and wastewater</p> <p>Real time sensors and methods to control water quality</p> <p>Improve modelling of extreme droughts on agricultural water management</p> <p>Investigate the socio-economic and legal political barriers against implementation of a more efficient water management</p> <p>Develop tactical DSS for irrigation and fertilization including weekly forecasting tools on water needs and availability</p>
Crops consuming less water	Development of low input cropping systems aiming for products for alternative use

<b>4. Sustainable water management for industry</b>	
Conservation of rain water and surface water	<p>Develop selective treatment processes and concepts for application of rain water and surface run-off</p> <p>On-line sensors and monitoring systems to control water quality</p>
Water saving/water efficiency measures	<p>Development of water quality criteria for industrial production processes as a basis for increased water reuse</p> <p>Development of new treatment and disinfection technologies/applications for closed loop solutions</p> <p>Scaling and fouling effects in industrial processes and cooling systems arising from closing the water cycle</p> <p>Sensors and technology for control of recycled water quality</p>