



about

WATERLINKS

- Regional partnership network to facilitate water operator partnerships (WOPs) in Asia
- Founded by ADB, IWA and USAID in August 2008
- Environmental Cooperation Asia (ECO-Asia) serves as WaterLinks secretariat and implements activities for USAID









about

WATERLINKS

- Aims to coordinate, develop and implement joint WOPs support programs to help achieve the MDG targets
- Promote scale-up and replication of good practices
- To date, facilitated over 30 WOPs to help improve and expand safe water and sustainable sanitation access to more than 600,000 people







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BACKGROUND

- Adapting to the impacts of climate change is a priority worldwide and in the Philippines
- Philippines has issued a National Framework on Climate Change for 2010-2022 with focus on reducing greenhouse gas emissions and adapting to the impacts of climate change
- Water resources remain vulnerable and water services providers face significant challenges in understanding and planning for possible climate impacts





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BACKGROUND

- Coastal Metro Manila cities suffer from climate-related events
- Both Manila Water and Maynilad Water are located in Quezon City (ASEAN ESC member) and seek to:
 - Better understand the potential impacts of climate change in operations
 - Identify new approaches for integrating climate change related risks into planning process





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BACKGROUND

- Palm Beach Water Utility Department (U.S.)
 - Implemented an approach to incorporate climate change considerations into strategic planning process including capital improvement plans
 - Included application of Water Evaluation and Planning System (WEAP) software and Multi-Criteria Decision Analysis
 - Willing and interested to share its practices and experiences
- USAID ECO-Asia is linking both Manila Water and Maynilad with Palm Beach to support knowledge transfer
- USAID ECO-Asia will engage additional technical support for WEAP training and climate-related risks assessments





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OBJECTIVE

- Increase awareness and/or understanding of climate change adaptation measures within both Maynilad and Manila Water
- Build capacity of both Maynilad and Manila Water to integrate climate change-related risks and factors into their planning processes
- Develop water resource analytical tools and methods (including WEAP) for Maynilad and Manila Water



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PLANNED ACTIVITIES

- Training for Manila Water and Maynilad on analytical tools application such as WEAP, risk management, XLRM framework
- Knowledge sharing by Palm Beach on its processes and methodologies that can be adopted by Manila Water and Maynilad
- Remote consultations and discussions between partners
- Preparation of a case study or toolkit demonstrating the process for preparing for climate change impacts for water service providers based on the WOP (and potentially others in ASEAN)



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PLANNING PROCESS

- Acquire and/or develop data about the link between potential future climate conditions and risk (Risk Identification)
- Modify analytical frameworks to assess the impact of different climate regimes on desired system outcomes (Risk Assessment)
- Adopt a decision analytic framework that can evaluate adaptation strategies against climate-related risks (Risk Management)
- Incorporates the XLRM framework, WEAP, decision-making



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XLRM FRAMEWORK

- Considerations for climate change risk identification, assessment and management
- Technical support in WOP to support framework application

Climatic conditions Hydrologic response to climate conditions Demographic factors Institutional and regulatory environment	Current management Near-term investments, programs, pricing strategies Signposts that trigger management changes or new investments Deferred management changes and/or new investments
Models (R)	Outcomes (M)
Climate models Climate downscaling methods Rainfall-runoff models Water system and management models Water quality models	Water demand Supply reliability Water quality Errivronmental and recreational objectives Cost (to agency and customers)





training topic

WEAP

- Integrated water resources planning tool to support decisionmaking and planning
- Can be used to
 - Represent current water resource and supply conditions in a given area
 - Explore various demand and supply options for balancing environment and development objectives
- http://weap21.org
- Palm Beach to share software application and results analysis in planning



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STEPS

- Initiate WOP in April/May to develop joint program
- Implement WOP activities in next 9-2 months
- Prepare case study or toolkit in 2012
- Additional considerations:
 - Other methodologies used to analyze impact of climate change to water supply provision within ASEAN
 - Climate change adaptation platforms in ASEAN region



