

Focus Area: Climate Change and Water Related Risks

Session Title: Mainstreaming Climate Resiliency by Water Organizations

Schedule: [August 8 | 3:30-5:00pm]



Manila Water Climate Change and Natural Calamity Risk Mitigation and Contingency Masterplan

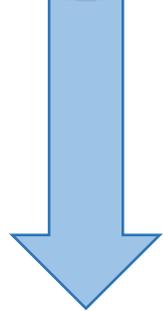


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⋈ The **“National Water Crisis Act”** was passed which led to a Public-Private Partnership that would be formalized through the **Concession Agreement**

Before 1997

Since 1997 to present



Public



MWSS Regulatory Office



Public



The **MWSS Service Area** was split into **two (2) concessions,**

With the **East Zone** being awarded to

Manila Water Company, Inc.

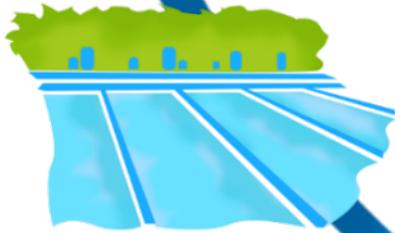




Water Source



Water Treatment



Water Distribution



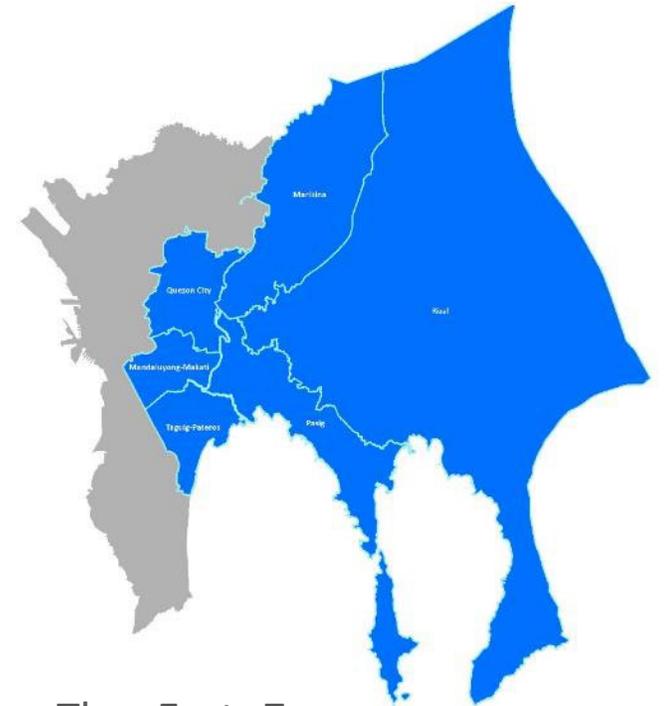
Customer Relationship Management



Sewer Collection and Treatment

MANILA WATER
CARE IN EVERY DROP

Providing the Complete Water Value Chain to 7.3 Million Population

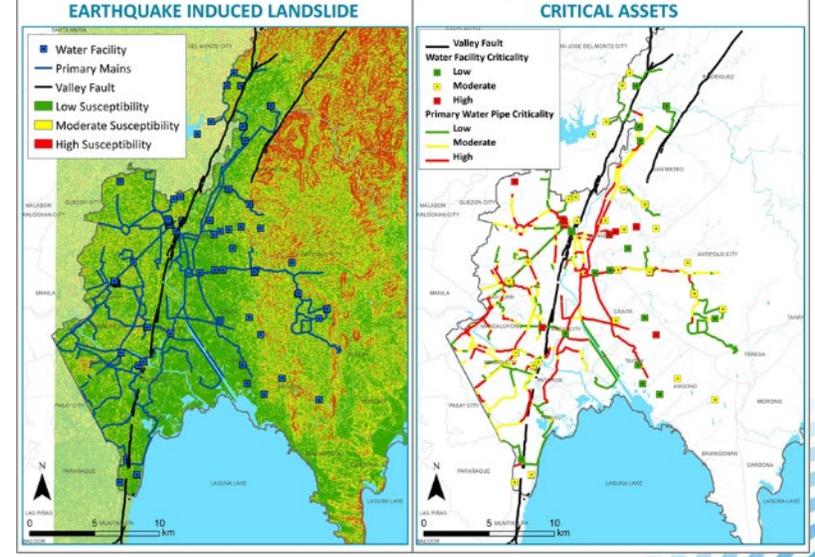
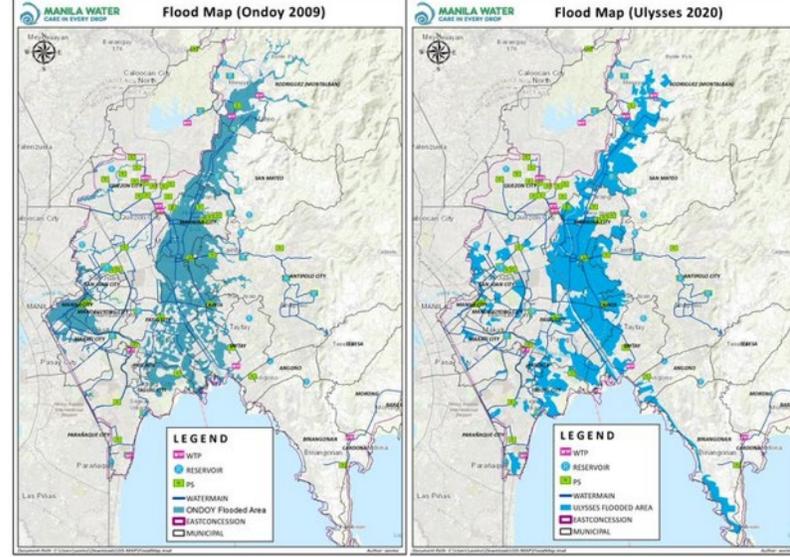
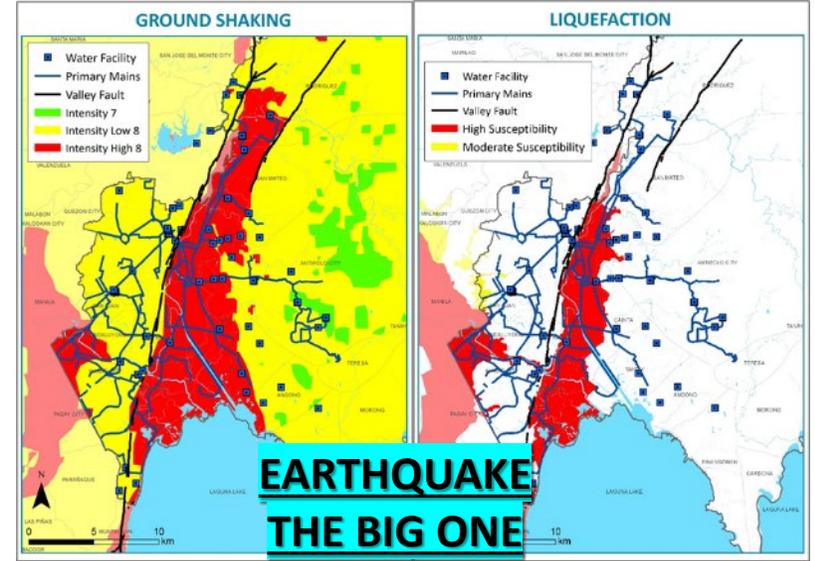


The East Zone encompasses **24 cities and municipalities** spanning a **1,400-square kilometer area** that includes East of Metro Manila and Parts of Rizal Province.





Challenges and Risks : Climate Change and Natural Calamities



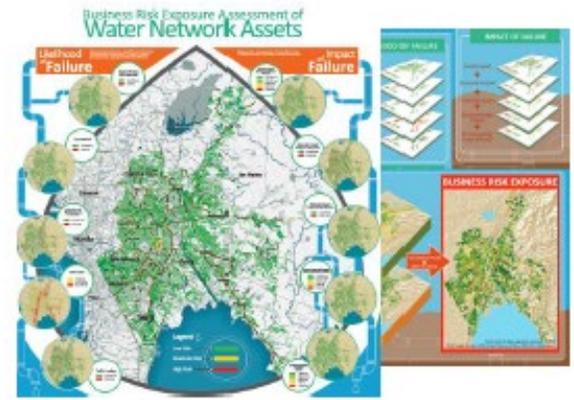


Multi-Layered Risk Analysis and Collaborative Master Planning with Different Government Agencies

Government Studies and Publications
 Natural Calamity Impact Assessments



Manila Water Internal Feasibility Studies
 Business Risk Exposure Assessment of Manila Water Assets

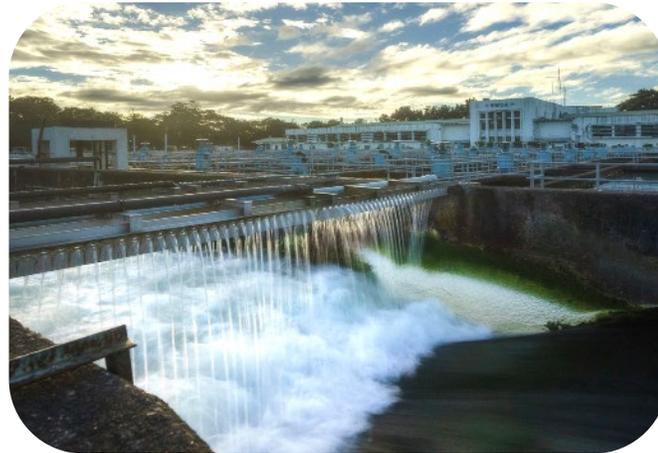




Climate Change and Natural Calamity Risk Mitigation and Contingency Masterplan



Water Security



Resiliency and Response



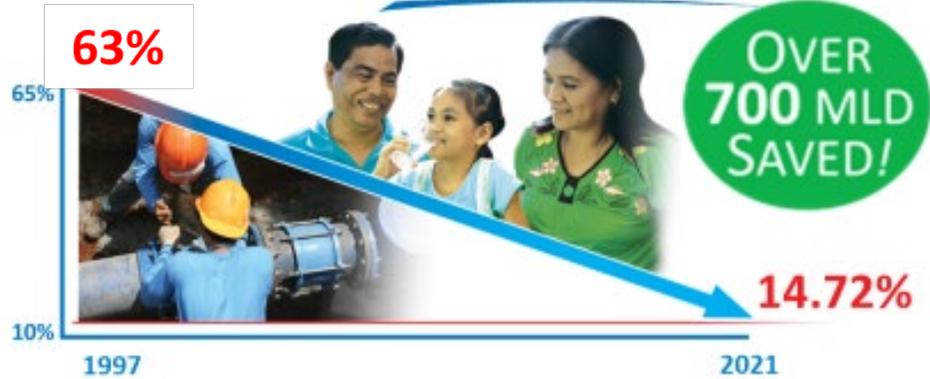
Sustainability and Climate Change Policy



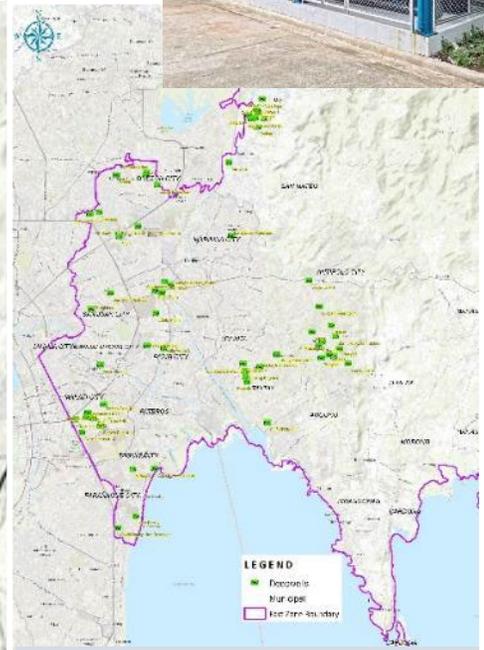
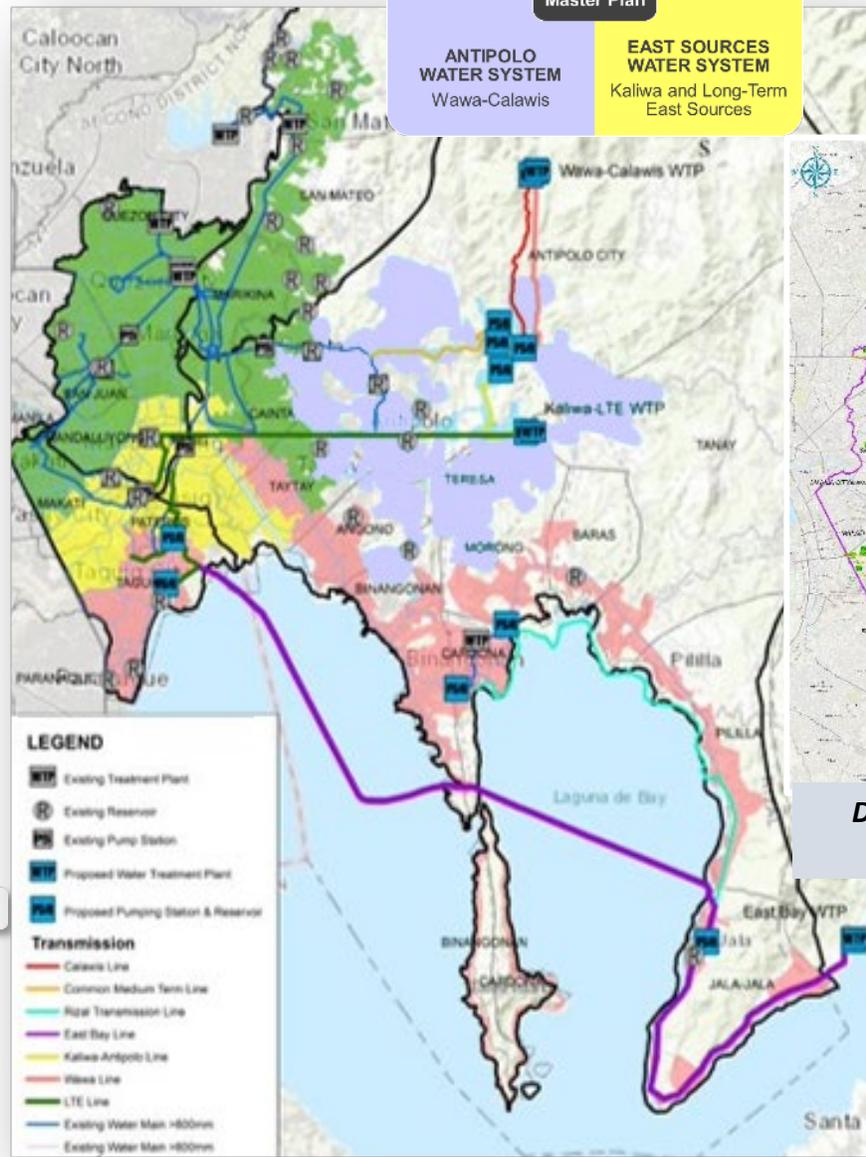
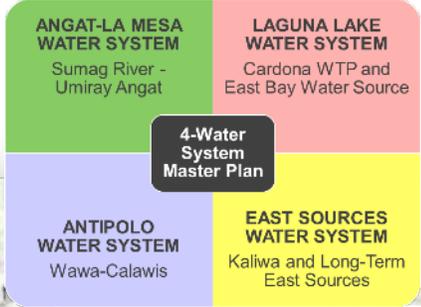
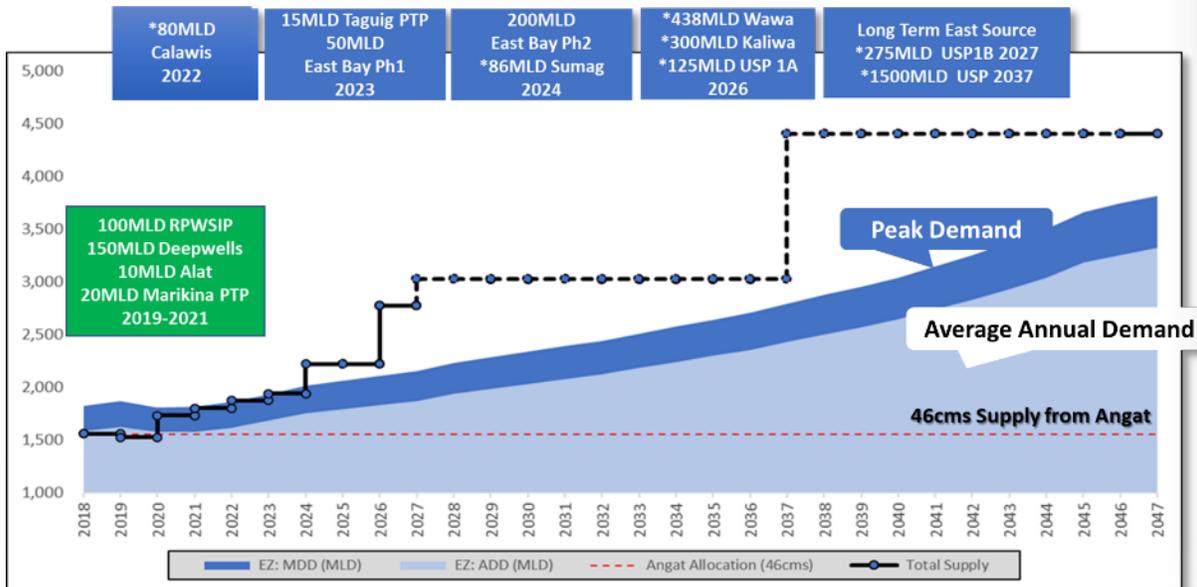
Water Security Master Plan

REDUCTION OF NON-REVENUE WATER / SYSTEM LOSSES

LOSING LESS = SERVING MORE



WATER DEMAND VS LONG TERM WATER SOURCE ROADMAP



DEEPWELLS : EMERGENCY BACK-UP SOURCES



Resiliency and Response

ASSET RESILIENCY PROGRAMS

1. Retrofitting of Treatment Plants, Reservoirs and other Critical Facilities

2. Rehabilitation of existing & Construction of New Aqueducts and Primary Lines

3. Fire, Windstorm and Flood Mitigation Controls





Resiliency and Response

NATURAL CALAMITY RESPONSE INITIATIVES

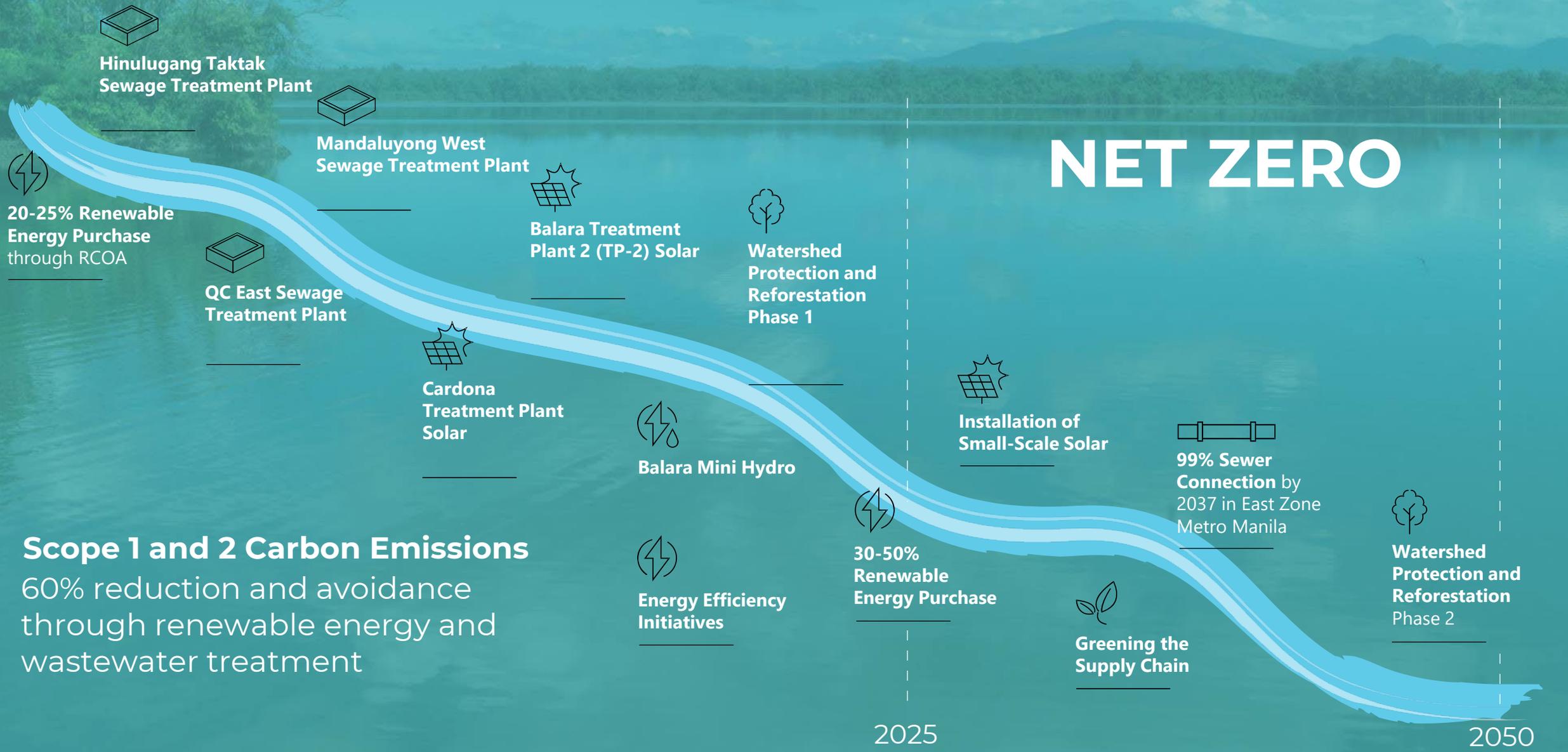
1. Installation of Emergency Reservoirs

2. Mobilization of Water Tankers and Mobile Treatment Plants

3. Employee Training and Awareness

4. Community Involvement and IEC Programs





Scope 1 and 2 Carbon Emissions
60% reduction and avoidance through renewable energy and wastewater treatment



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CARE IN EVERY DROP



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