

COUNTRY	CASE STUDY	TITLE	SUMMARY
Mexico	Tlalnepantla de Baz	Case Studies in Blended Finance for Water and Sanitation: Municipal Bond Issue by the Municipality of Tlalnepantla de Baz (Mexico)	Explores the first municipal bond in Mexico to finance infrastructure investments by using the project's revenues instead of depending directly on federal transfers. It financed the construction and operation of a wastewater treatment plant to reuse residential and industrial wastewater for industrial purposes, and an assessment and rehabilitation of the water distribution network to reduce losses. All these works could eventually generate savings or revenues to reimburse associated costs.
South Africa	Rustenburg	Case Studies in Blended Finance for Water and Sanitation: Municipal Project Finance in the Municipality of Rustenburg (South Africa)	Rustenburg Municipality faced constraints in terms of institutional and financial capacity, which limited its ability to finance and upgrade infrastructure. This case study explores the creation of the Rustenburg Water Services Trust (RWST) by the Municipality of Rustenburg to finance and upgrade their infrastructure. The Trust secured revenues from the sale of nonpotable treated wastewater and an off-take agreement with two local mines. This revenue security, and the ring-fencing of the RWST as a special purpose vehicle (SPV), enabled commercial finance to be accessed in the form of a bank loan.
Jordan	As-Samra WWTP	Case Studies in Blended Finance for Water and Sanitation: Blended Financing for the Expansion of the As-Samra Wastewater Treatment Plant in Jordan	Explores a blended financial package that was put in place to finance the expansion of the As-Samra Wastewater Treatment Plant. The project was undertaken by the Samra Wastewater Treatment Plant Company Limited (SPC), a private operator that was recruited through a Build-Operate-Transfer (BOT) contract to finance, upgrade, and operate the wastewater treatment plant. Treated wastewater is used for irrigation.
Colombia	Cañaveralejo	Energy Management for Water Utilities in Latin America and the Caribbean. Case Study: Canaveralejo WWTP, EMCALI, Cali, Colombia (Also available in Spanish)	Explores a watershed approach (IWRM) to energy management by improving overall water quality in a service area in Colombia, updating process automation and energy efficiency, and installing biogas energy production.
Colombia	Findeter	Case Studies in Blended Finance for Water and Sanitation: Institutional Blending via Second-Tier Lender FINDETER in Colombia	FINDETER, a partly government-owned second-tier lender, was established in 1989 in Colombia. It provides discounted loans to domestic commercial banks that lend to local entities to finance infrastructure projects.

USA	Ithaca	Energy Management for Water Utilities in Latin America and the Caribbean. Case Study: Ithaca Area Wastewater Resource Recovery Facility, USA (also available in Spanish)	Discusses cost reduction and energy saving strategies at a treatment facility in New York including co-generation processes. Focuses on key partnerships and the selection of equipment upgrades that support strong energy management.
Austria	Strass im Zillertal	Energy Management for Water Utilities in Latin America and the Caribbean. Case Study: Strass im Zillertal Wastewater Resource Recovery Facility, Austria (Also available in Spanish)	Highlights a treatment facility in Austria that achieved energy independence in 2005 through onsite energy generation. Focuses on strategies such as benchmarking, staff training, and equipment upgrades.
Brasil	Laboreaux WWTP	Energy Management for Water Utilities in Latin America and the Caribbean. Case Study: Laboreaux Wastewater Treatment Plant SAAE Itabira, Minas Gerais, Brazil (also available in Spanish)	Explores opportunities to optimize commonly used UASB treatment as a low energy technology at a wastewater plant in Brazil. Focuses on mitigation of scum accumulation and methane losses.
Ecuador	Quito	Energy Management for Water Utilities in Latin America and the Caribbean. Case Study: Empresa Pública Metropolitana de Agua Potable y Saneamiento (EPMAPS), Quito, Ecuador (also available in Spanish)	Explores microhydro power generation at a utility in Ecuador, as well as energy considerations for the design of Quito's first wastewater treatment facility.
USA	Columbus Water Works	Energy Management for Water Utilities in Latin America and the Caribbean. Case Study: Columbus Water Works, Columbus, Georgia, USA (also available in Spanish)	Examines operational improvements and energy rate structures to reduce energy use and the cost of electricity at a utility in Georgia. Explores electricity generation onsite the waste water treatment plant and an innovative partnership with the power company.
Australia	Melbourne Water	Energy Management for Water Utilities in Latin America and the Caribbean. Case Study: Melbourne Water, Melbourne, Australia (also available in Spanish)	Examines the energy, climate, and cost considerations driving decisions at a utility in Australia for a water transfer and recycling program that reduces energy consumption.
Several	Several	East Asia and Pacific - Wastewater to energy processes : a technical note for	Findings from a series of case studies presenting a wide range of wastewater to energy options that could be considered in developing countries, paying

		utility managers in EAP countries	particular attention to the characteristics of EAP countries. The report includes a simple assessment tool that allows a quick preliminary quantification of OPEX-related implications of wastewater-to-energy facilities, as well as preliminary design of its major components.
Several	Several	Energy Management for Water Utilities in Latin America and the Caribbean. Summary Note	Highlights common drivers, effective approaches, and lessons learned among water utilities in the development and implementation of energy management programs. Focuses on communities around the world that reflect the needs and challenges faced by LAC water utilities.
Several	Several	Energy Management for Water Utilities in Latin America and the Caribbean. Final Report: Exploring Energy Efficiency and Energy Recovery Potential in Wastewater Treatment Plants	Key findings on energy management programs in wastewater treatment plants. Topics include the expansion of wastewater treatment services and technologies in the LAC region, energy efficiency and recovery as part of a sustainable growth strategy for cities, financing options and investment strategies for energy projects, best management practices, and lessons learned from wastewater utilities.
India	Several	Approaches to Capital Financing and Cost Recovery in Sewerage Schemes Implemented in India: Lessons Learned and Approaches for Future Schemes	Explores successful capital financing and cost recovery practices adopted by Urban Local Bodies (ULBs) in India to enable improvement in provisioning of sewerage systems and ensure availability of sufficient funds for proper Operation and Maintenance (O&M) of the schemes implemented. Among other findings on financing WWTP, experience from Chennai demonstrates that sale of treated wastewater to industries is adequate to cover O&M costs of the wastewater treatment plants
Global	General	Easing the Transition to Commercial Finance for Sustainable Water and Sanitation	The purpose of this report is to bring together the current state of knowledge on water sector finance in developing countries and to set out the World Bank's vision for how countries can finance their Water Supply and Sanitation related goals under increasingly challenging contexts. The report articulates a framework to help countries use public resources more effectively to crowd in new sources of finance and formulates practical recommendations for doing so.
Global	General	A primer on energy efficiency for municipal water and wastewater utilities	This primer is concerned with energy use and efficiency of network-based water supply and wastewater treatment in urban areas.