



## Water Infrastructure Best Prospects Singapore, Vietnam, the Philippines, and the Asian Development Bank

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### Singapore

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Singapore's water supply is derived from four main sources known as the 'Four National Taps' which includes water from local catchments, imported water, ultra-clean, high-grade reclaimed water (branded NEWater), and desalinated water. PUB, Singapore's national water utility, is interested in technologies and equipment that support the production (e.g. desalination), treatment, collection and distribution of water and wastewater. In the past two years, PUB has awarded approximately US\$1.5 billion in contracts covering construction, sewage rehabilitation and drainage improvements works. There are over 100 contracts scheduled for release in the next 15 months. PUB also invests heavily in R&D annually, and opens up its facilities for test-bedding new technologies under live conditions. Finally, Singapore is recognised as a 'Global Hydrohub' with about 180 water companies and 26 research institutions. Many companies use Singapore as a base to reach out to regional clients in Asia-Pacific.

Best prospects for Singapore are for water recycling systems and technology, filtering and purifying machinery and apparatus, wastewater, recycling and treatment technologies and modular wastewater treatment systems over conservation systems.

### Vietnam

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Vietnam is facing many environmental challenges with the water sector; the two major issues are: lack of clean water and untreated and discharged wastewater. Vietnam is strongly encouraging Public Private Partnerships (PPP) as it needs around \$170 billion to develop its infrastructure, power plants, water and wastewater treatment plants and ports according to the Ministry of Planning and Investment. Due to public finance constraints and the phasing out of official development assistance, Vietnam is seeking investment from overseas in order to develop its waste water collection and treatment systems. For the larger infrastructure projects, Vietnam is receiving funding from the World Bank and/or the Asian Development Bank. These projects can be a great opportunity for U.S. companies as they are procured through international competitive bidding which offers a transparent and fair selection.

Best prospects in Vietnam include, but not limited to, water treatment chemicals, filtration systems, water control & monitoring equipment, energy savings, activated sludge, waste stabilization ponds, oxidation ditch and large waste water pumps.

## The Philippines

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The Philippines is an active market for water resource and wastewater treatment products and technologies. Among the ongoing and upcoming projects in the country are the \$542 million Bulacan Bulk Water Supply Project, and the \$416 million New Centennial Water Source - Kaliwa Dam Project which will be undertaken through Public-Private Partnership, the Angat Water Transmission Improvement Project funded by the Asian Development Bank, and the Metro Manila Wastewater Management Project of the World Bank. The Manila Water Company Inc. (MWCI) and Maynilad Water Services Inc. (MWSI), two major water utilities in the Philippines, are continuously expanding, modernizing, and improving their water and sewerage/septage services.

Best prospects in the Philippines are drinking/potable water treatment equipment/processes, products/equipment for the construction and development of additional water resources and water supply systems, water supply rehabilitation products/equipment, water recycling products/equipment, products/equipment/accessories for sewage/septage projects, packaged or modular wastewater treatment equipment; industrial wastewater treatment and, wastewater treatment technologies that will result in smaller footprint.

## The Asian Development Bank (ADB)

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ADB's lending averages over \$22 billion annually, mainly focused on infrastructure. In 2014, \$2 billion went to projects in water supply, water treatment, wastewater treatment, sanitation, sewerage, irrigation, water resources management and development, and other environment and urban development-related water projects. The ADB's Water Financing Program provides for a \$20-\$25 billion investment spending through 2020. This includes \$4 billion in the ASEAN pipeline through 2017, with 50 on-going projects, and 50 in the pipeline.

ADB's Vietnam portfolio has on-going projects worth \$1.4 billion and close to \$1 billion in planned loans through 2017. The projects are urban development- and environment-related, as well as for water sector investment programs and water supply and sanitation. ADB's Philippine portfolio in the water sector consists of some \$412 million for five (5) on-going grants and three (3) planned loans for water district development, water transmission improvement in Angat, and wastewater improvement in Metro Manila.

Best prospects with the ADB are consulting services (engineering, design, and implementation/management), contractors for rehabilitation and expansion works, and a host of equipment and supplies such as water pumping mains, gravity transmission mains, control valves, pressure control valves, waste treatment plants, to cite a just a few examples.

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### Contacts

Tipten N. Troidl  
U.S. Commercial Service - Minnesota  
Tel: 612-348-1643  
[Tipten.Troidl@trade.gov](mailto:Tipten.Troidl@trade.gov)

Gemal Brangman  
Trade Promotion Programs - Washington, DC  
Tel: 202-482-3773  
[Gemal.Brangman@trade.gov](mailto:Gemal.Brangman@trade.gov)

