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Introduction to the Office of Markets Development and Public-Private Partnership

Rosemary Ong
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PPP Specialist

Office of Markets Development and Public-Private Partnership (OMDP) is established to enhance the role of the Asian Development Bank in supporting and enabling governments of its developing member countries **to secure greater private investment and foster dynamic private sector-led growth** across Asia and the Pacific.

[WEBSITE](#)

[VIDEO](#)

[FLYER](#)

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About Us



Advocate and engage stakeholders for Private Sector Development



Provide advisory services for private investment and capital mobilization



Strategize, formulate, and build capacity for our Developing Member Countries



Our Work



Cultivate markets to draw private sector investment by introducing bankable projects, addressing both traditional and emerging challenges.



Engage private sector innovation, efficiency, and capital to significantly enhance living standards within developing economies.



Our Approach



Improve the environment for private sector investment – reforms



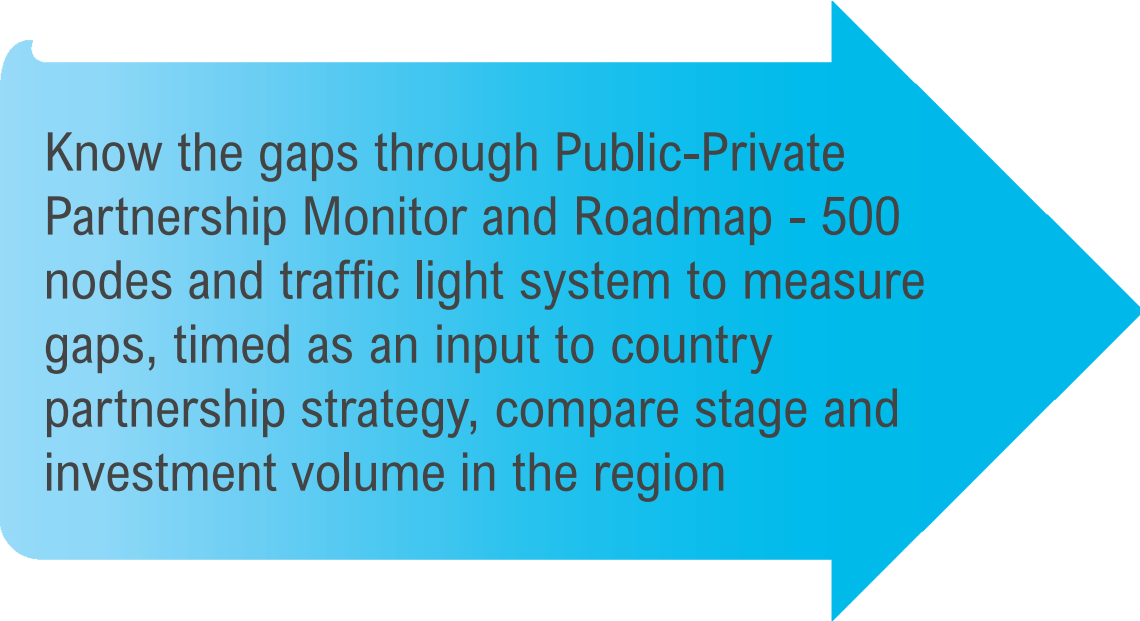
Build capacity to execute implement reforms and support private sector investment



Advisory on projects to test reforms and/or market



Improve the environment for private sector investment – reforms

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Know the gaps through Public-Private Partnership Monitor and Roadmap - 500 nodes and traffic light system to measure gaps, timed as an input to country partnership strategy, compare stage and investment volume in the region

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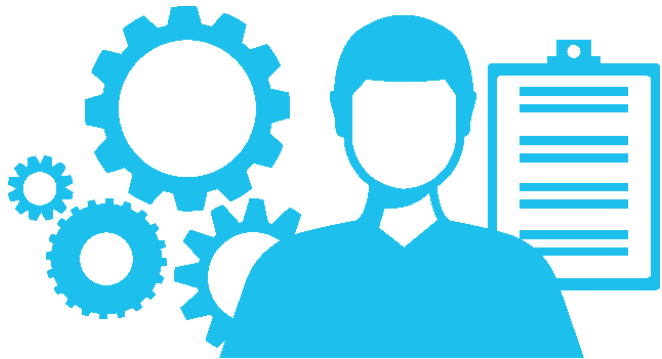
Work with public sector for reforms – policy dialogue, program loans

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Build capacity to execute implement reforms and support private sector investment



Ministries - Project Selection for private sector investment – value for money



Public-Private Partnership Center/Units – expertise, implementation, monitoring



Advisory on projects to test reforms and/or market



Develop

Develop solutions where private sector have comparative advantage – new technology, management efficiency, scale, immediate fiscal constraint



Structure

Structure projects to balance risk and reward between private and public sector



Test

Test reforms with projects in priority sectors – template bidding documents, agreements

Our Global Team



Tapping on our collaboration with the sovereign and non-sovereign departments within Asian Development Bank, we offer a **one-stop-shop of integrated services**, helping solve development challenges of our Developing Member Countries throughout the region.

Awards and Recognition



2024 Winner

Best in Utilities

Utility-Scale Solar Photovoltaic plus Battery Storage Project, under the Ministry of Energy, Uzbekistan.

2023 Winner

Best in Utilities

Namangan Wastewater Treatment Plant under the Ministry of Finance of the Republic of Uzbekistan

2022 Winner

Public Sector Procurer of the Year PPP Development Agency (PPPDA) under the Ministry of Finance of the Republic of Uzbekistan



2023 Highly Commended

Best Utilities Project
Dili Solid Waste Management in Timor Leste

2022 Highly Commended

Best Utilities Project
Tashkent District Heating Project



2022 Finalist

Best Utilities Project
457 MW Uzbekistan Sherabad Solar PPP

2023 Finalist

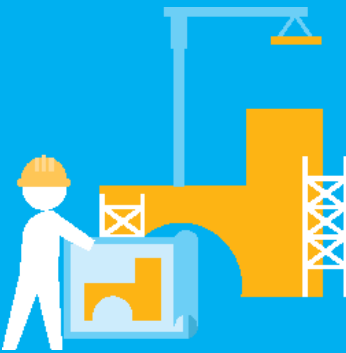
Best Utilities Project
Cambodia National Solar Park



2021 Judges' Choice Award

Transport Project of the Year
Bangladesh Dhaka Bypass Road PPP Project

Achievements 2016-2023



Supported
90+
Private-Public Partnership
projects



Mobilized **\$4.3 billion**
in **private capital**



Supported
8 sectors
and **25 countries**



Achieved
15 commercial
closures

All new projects go through climate
and gender filter

Over **60%** of active projects
focus on **climate**
operations



More than **80%** of the projects
have **gender action**
plans



Our Services



Upstream

Capacity Building

Enabling Environment

Raise awareness, enhance government capacity, establish policies and frameworks, identify potential projects, and provide support to facilitate Public-Private Partnership (PPP) development



Midstream

Project Preparation and Transaction Advisory Services

Assist in designing and preparing bankable PPP projects through **transaction advisory services** and continuously share knowledge sharing and support to enhance the enabling environment for private sector investment



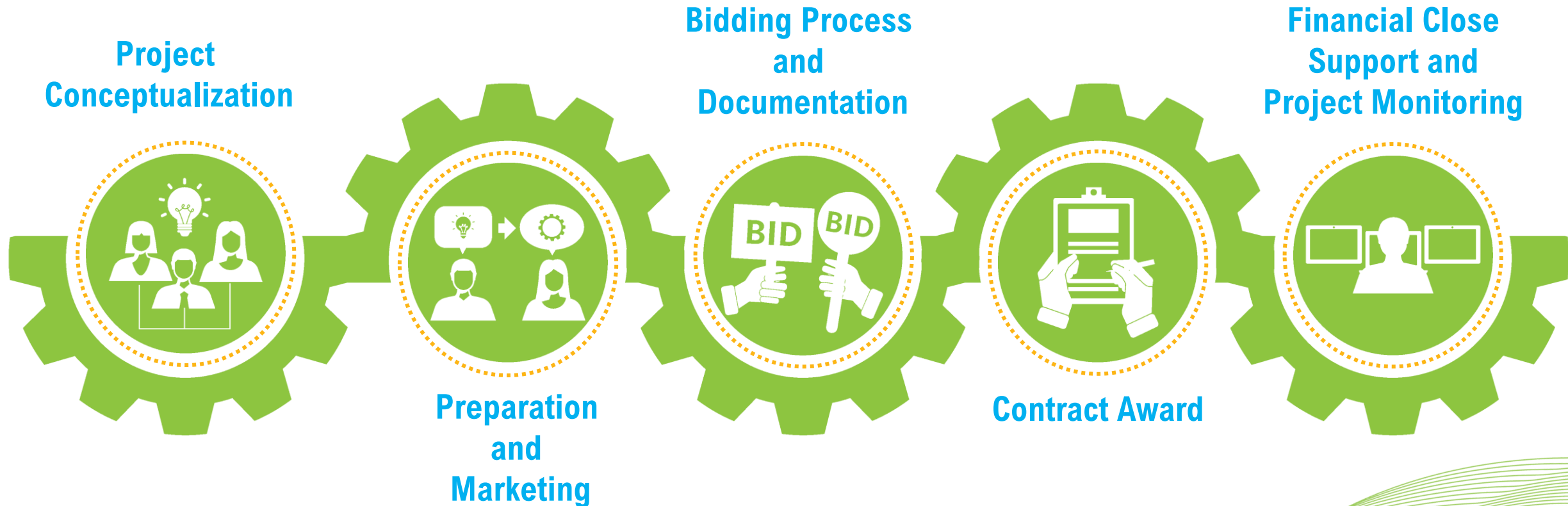
Downstream

Project Monitoring

Provide post-commercial close support for contract management and project monitoring to ensure successful implementation of the PPP projects we advise.

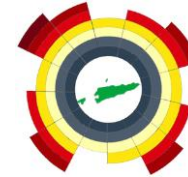
Transaction Advisory Services

TAS is a fee based advisory services to assist in structuring and procuring viable PPP projects that covers a full range of activities:



Our Clients and Partners

ADB



and many more



Our Value Add



Bankability



Expertise



**Honest
Broker**



**International
Network**



**Value
For Money**



Disclaimer

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Thank You

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Current Projects

Mechanized Irrigation Innovation Project (MIIP)



Project and Mandate Overview

Country	Nepal
Sector	Agriculture
Name of Client	Department of Water Resources and Irrigation
Estimated Project Size	\$160 million (build cost); approx. \$35 million (O&M cost)



Project Background and Description

- ❖ The project will boost year-round irrigation over 22,400 hectares in Madhesh Province by establishing a network of 500 tube wells with dedicated electricity.
- ❖ It uses a hybrid Public-Private Partnership (PPP) through the Design-Build-Operate (DBO) model, funded by the Government of Nepal with ADB's sovereign loan.

Key Features

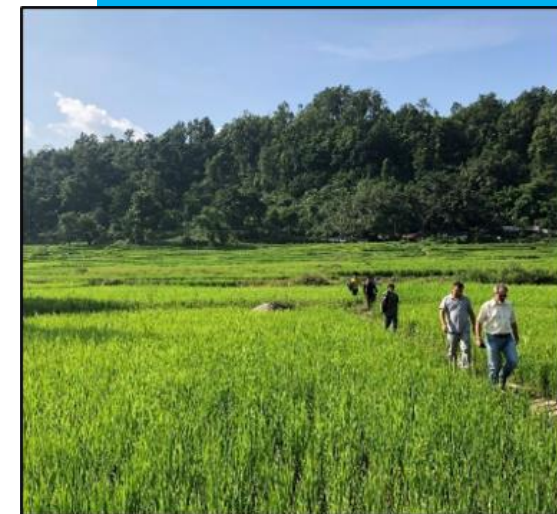


- ❖ The DBO contract will incentivize the contractor to design and build durable infrastructure.
- ❖ On-demand irrigation services will follow a prepaid system, catering to approximately 22,000 farm households based on the users-pay principle.



Status

- ❖ Expected commercial closure in 1H 2025.



Bundled Regional Airports

Project and Mandate Overview

Country	Philippines
Sector	Transportation
Name of Client	Department of Transportation
Estimated Project Size	TBD



Project Background and Description

- ❖ Rehabilitation, expansion, operation, and maintenance of upto six (6) Philippine regional airports, bundled together, on a long-term concession.
- ❖ It will be structured as Public-Private Partnership (PPP) through the Rehabilitate-Operate-Expand-Transfer (ROET), covering landside and airside facilities.

Key Features



- ❖ Bundling of 6 regional airports across the Philippines to leverage operational and commercial synergies.



- ❖ The project is a key component of the Philippine aviation sector's pipeline, following the recently concluded NAIA PPP.

Status

- ❖ Target Project Launch Q3 2025



Project and Mandate Overview

Country	Philippines
Sector	Urban
Name of Client	National Irrigation Authority
Estimated Project Size	TBD



Project Background and Description

❖ Mandate signed in Sep 2024 for assisting the NIA in the Philippines to operationalize the multi-purpose use of their irrigation waters; primarily integrating Renewable Energy with irrigation, at the Pantabangan reservoir, Jalaur River and in NIA irrigation canals.

Scope of Work

❖ OMDP's scope of work includes upstream assistance to ensure the formulation of a regulatory framework for a single auction window process to implement the proposed projects. The projects will be procured via a competitive bidding as a design, build, operate and maintain model.



Status

❖ Target Project Launch Q3 2025



Project and Mandate Overview

Country	Maldives
Sector	Energy
Name of Client	Ministry of Climate Change, Environment and Energy (MCCEE)
Estimated Project Size	\$17 million (land & rooftop solar) \$8 million (floating solar)



Project Background and Description

- ❖ The Government of Maldives, with support from ADB, is implementing the Accelerating Sustainable System Development Using Renewable Energy (ASSURE) project which will support capital intensive investments (battery energy storage, grid upgrades and energy management systems) to support renewable energy development.
- ❖ To complement this project, the Government of Maldives is undertaking the procurement of project developers who will install up to 20MWp solar PV systems in 20 outer islands of the Maldives under Public-Private Partnership (PPP) modality.
- ❖ The sites encompass land, rooftop, and floating solar installations.



Status

- ❖ Expected commercial closures: 2024 (land and rooftop solar); 2025 (floating solar)

Karaganda Medical University Hospital Project



ADB

Project and Mandate Overview

Country	Kazakhstan
Sector	Health
Name of Client	Ministry of Healthcare
Estimated Project Size	\$130 million



Project Background and Description

- ❖ Ministry of Health mandated ADB as the Transaction Advisor for a 300-bed university hospital project in Karaganda, forming part of the Strategic Plan for 2020-2025.
- ❖ It's one of 14 greenfield hospital Public-Private Partnerships (PPPs) planned across Kazakhstan, with Karaganda Oblast as the project's site, located 200km south of Nur Sultan and boasting an estimated 2020 population of 505,000.



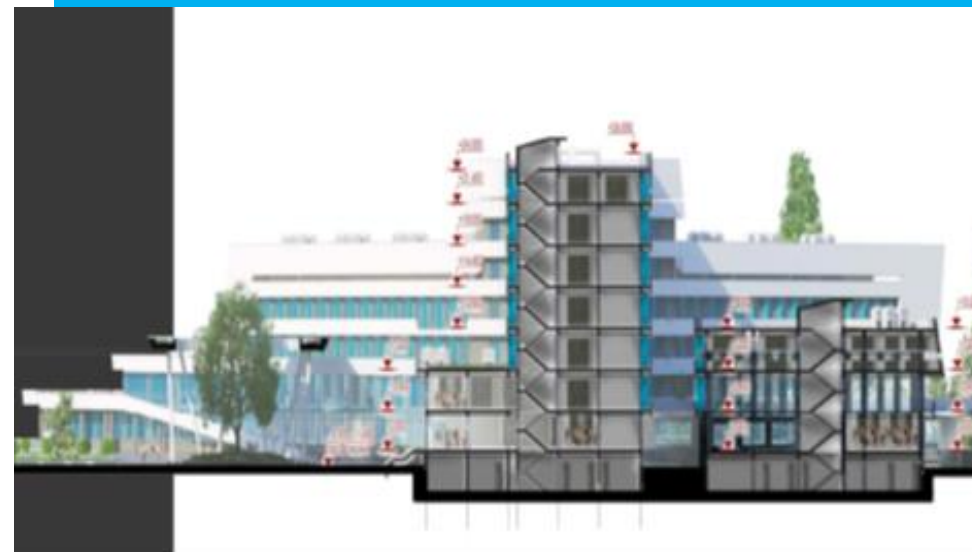
Key Features

- ❖ The project operates under an infrastructure PPP model with limited services.
- ❖ This means the concessionaire solely manages facility maintenance, while medical and teaching services are undertaken by the Karaganda Medical University.



Status

- ❖ Expected commercial closure in 2025



Project and Mandate Overview

Country	Uzbekistan
Sector	Education
Name of Client	Ministry of Preschools and Schools
Estimated Project Size	\$100 million



Project Background and Description

- ❖ ADB is providing Transaction Advisory Services for constructing 13 primary schools in Uzbekistan's Tashkent region under the Public-Private Partnership (PPP) model.
- ❖ These schools, accommodating an estimated 13,000-14,000 students, will follow international standards and a UNICEF-developed curriculum.
- ❖ As the country's first education PPP project, the Ministry of Preschools and Schools aims to replicate this model nationwide.



Status

- ❖ Expected commercial closure in 2024

Project and Mandate Overview

Country	Pakistan
Sector	Water
Name of Client	Karachi Water and Sewerage Board
Estimated Project Size	\$180 million (West Karachi); \$430 million (TP4)



Project Background and Description

❖ Sindh Government (GoS) in Pakistan prioritizes wastewater treatment and water reuse via Public-Private Partnership (PPP). The Karachi Water and Sewerage Board (KWSB) approved a program for PPP wastewater treatment projects in Karachi to reuse water for industrial and agricultural use, addressing the city's water scarcity.



Scope of Work

- ❖ The private sector will handle project design, construction, and the sale of treated water for 25-30 years to industrial and agricultural consumers.
- ❖ GoS will provide significant support with payments, funding, and revenue guarantees initially.
- ❖ ADB advises KWSB on pre-feasibility, structuring, and tendering for the West Karachi Recycled Water project and a larger Treatment Plant 4 project.



Status

- ❖ Expected commercial closures:
 - 2024 (West Karachi)
 - 2025 (TP4)

Solar Independent Power Producer Project

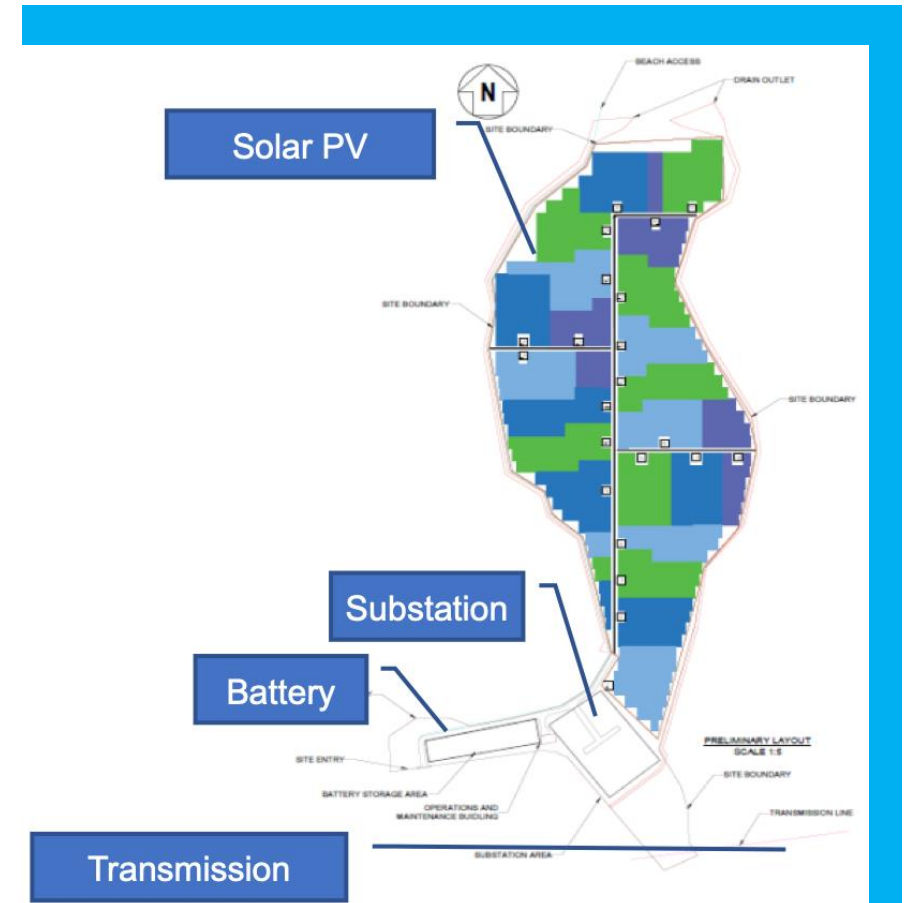


Project and Mandate Overview

Country	Timor-Leste
Sector	Energy
Name of Client	Ministry of Public Works (MPW)/Eletricidade de Timor-Leste (EDTL)
Estimated Project Size	\$100 million

- Project Background and Description**
 - ❖ A 72-85 MWac solar power plant combined with 36-42.5MW/1 hour Battery Energy Storage (BESS) will be designed, built, financed, constructed, operated and maintained by an Independent Power Producer (IPP) to be selected through a competitive tender.
 - ❖ The project can help the country meet increasing energy demand replacing diesel generation with much affordable renewable energy and providing grid stability.

- Scope of Work**
 - ❖ Transaction advisory services (TAS) is provided to prepare techno-commercial feasibility study of the project, conduct legal, environmental and social due diligences, and complete tender processes for selection of the IPP including tender document preparation, market sounding, negotiation with preferred bidder etc. TAS will continue to be provided till financial closing of the project.



- Status**
 - ❖ Expected commercial closure in 2024



Project and Mandate Overview

Country	Indonesia
Sectors	Energy, Water, Urban Infrastructure
Name of Client	Ministry of Energy and Mineral Resources
Estimated Project Size	\$15 million



Project Background and Description

❖ ADB developed a PPP for the Denpasar Public Streetlighting Energy Efficiency Project, building on its continuous support to Indonesia's Ministry of Energy and Mineral Resources and the Denpasar City Government.

❖ This initiative focuses on replacing more than 18,000 conventional lights with energy-efficient LED lights to enhance energy savings and the quality of street lighting. Under Indonesia's PPP model, energy conservation falls under the infrastructure project category.

❖ The private partner is expected to receive availability payments from the Denpasar City Government upon meeting the specified quality and energy efficiency standards for the street lighting facilities.



Status

❖ Expected commercial closure in 2024

Project and Mandate Overview

Country	Philippines
Sector	Information and Communication Technology
Name of Client	Bases Conversion and Development Authority (BCDA)
Estimated Project Size	\$50 million

Project Background and Description

- ❖ New Clark City (NCC) is an urban development project of BCDA, in which BCDA envisions to create an environmentally sustainable, smart and disaster-resilient greenfield city in Clark, Philippines.
- ❖ The Information and Communications Technology (ICT) project aims to introduce “open access model” for ICT infrastructure development in NCC to avoid duplicative investments by multiple internet service providers (ISPs) for provision of connectivity services. Under the open access model, ISPs will be able to lease fiber optic cables from a Joint Venture (JV) created between BCDA and private sector partner.

Scope of Work

- ❖ Transaction advisory services (TAS) is provided to prepare project’s pre-feasibility study (define the scope of the project, develop a conceptual design for the network, preliminary costing, and a commercially viable business model) and to support the tendering of the project for selection of the JV partner.
- ❖ TAS is expected to continue till commercial closing.



Status

- ❖ Expected commercial closure in 2025

Unique Digital Identification (UID) Project



Project and Mandate Overview

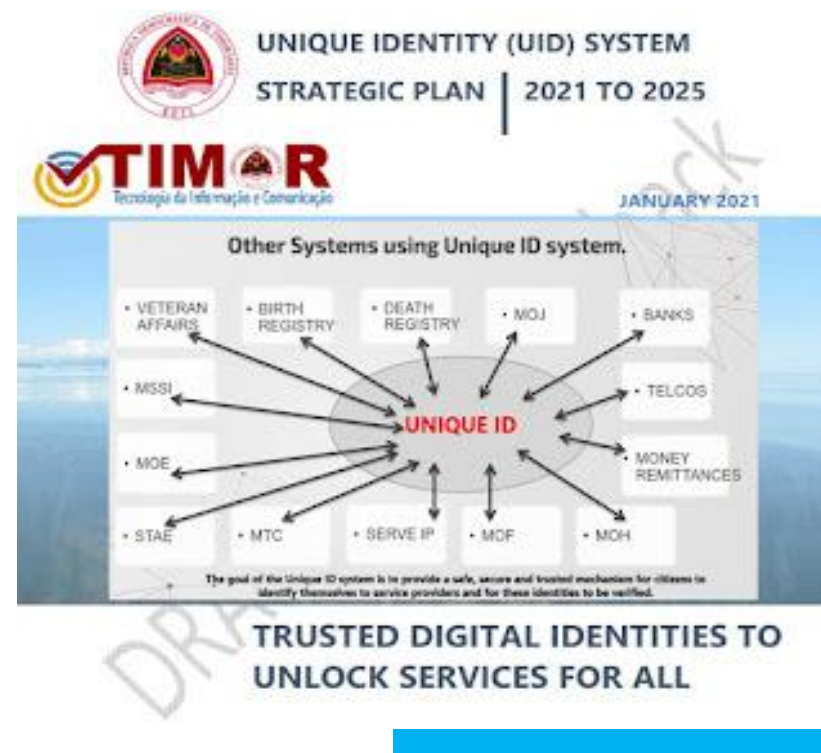
Country	Timor-Leste
Sector	Information and Communication Technology
Name of Client	Ministry of Justice (MOJ) and Ministry of Transport and Communication (MOTC)
Estimated Project Size	\$19 million

Project Background and Description

- ❖ Development of a digital identification system in Timor-Leste.
- ❖ The Unique ID (UID) system is designed to establish a digital identity using a random unique number, biographical data and biometric information. The system will allow digitization of the economy, enable targeted subsidies, increased financial inclusion, reduce pilferage, fraud and cut transaction costs and allow citizens and residents to more reliably access a wider range of public and private services.

Scope of Work

- ❖ Transaction advisory services (TAS) is provided to determine optimal level of private sector engagement in design, installation and operation and maintenance of the UID system for its successful deployment. Conduct of legal due diligence and supporting gov't in introduction of relevant legislation/regulation is also an important part of the TAS to allow appropriate level of data and privacy protection.
- ❖ TAS is expected to continue till commercial closing.



Status

- ❖ Expected commercial closure in 2025

Joydebpur Mymensingh Expressway PPP Project



ADB

Project and Mandate Overview

Country	Bangladesh
Sector	Transport
Name of Client	Roads & Highways Department (RHD)
Estimated Project Size	Project 1: \$890 million Project 2: \$110 million

- Project Background and Description**
- ❖ The Joydebpur-Mymensingh highway, part of National Highway-3 (N3), connects six districts and 10 special economic zones. A Government-to-Government Public-Private Partnership (PPP) in collaboration with the Republic of Korea.
 - ❖ Project 1: Expressway project: lane expansion, upgrade and O&M of 4 (tolled expressway) + 4 (non tolled) side lanes along the existing 87km national highway.
 - ❖ Project 2: ADB is considering climate change measures such as solar panel installation (approx. 75-90 MW) along the corridor.

- Scope of Work**
- ❖ ADB provides advice on legal aspects, risk allocation, technical due diligence, cost estimates, and structuring for the Design-Build-Finance-Operate-Maintain (DBFOM) contract.
 - ❖ ADB assists in the tender process, including preparing documents, evaluating bidders, and negotiating concession agreements.
 - ❖ ADB offers additional capacity building support to the PPP Authority and RHD.



Status

- ❖ Expected commercial closure in 2025.

O&M Concessions for North South Commuter Railway (NSCR) & Metro Manila Subway Project (MMSP)



Project and Mandate Overview

Country	Philippines
Sector	Transport
Name of Client	Department of Transportation
Estimated Project Size	NSCR: \$15 billion (build); \$3 billion (O&M) MMSP: \$9 billion (build); \$2 billion (O&M)



Project Background and Description

- ❖ NSCR is a 147km rail line to cut travel time between Metro Manila and Clark to under 1 hour, co-financed by ADB and JICA (Japan International Cooperation Agency).
- ❖ MMSP, a 36km underground mass transport system, is the first of its kind in the Philippines, funded by JICA.
- ❖ O&M Concessions involve sovereign-funded construction and private sector-managed operations and maintenance through long-term concession agreements.
- ❖ Separate tenders for NSCR and MMSP's O&M concessionaires offer availability payments tied to their performance.



Scope of Work

- ❖ ADB provides advice on legal requirements, risk allocation, and structuring the Operations and Maintenance (O&M) contract.
- ❖ ADB assists in the tender process, including preparing documents, evaluating and selecting the winning bidder, and finalizing concession agreements. ADB also provides additional support for capacity building, including developing contract implementation and monitoring capabilities.



Status

- ❖ Expected commercial closures in 2025.

Caliraya-Botocan-Kalayaan (CBK) Monetization

Project and Mandate Overview

Country	Philippines
Sector	Energy
Name of Client	Power Sector Assets and Liabilities Management Corporation (PSALM)
Project Size	TBC

- Project Background and Description**
- ❖ Monetization of the Caliraya-Botocan-Kalayaan (CBK) Hydroelectric Power Plants in Luzon - a 728MW complex, including a pumped storage power plant, under a Build-Rehabilitate-Operate-Transfer Agreement.
 - ❖ The CBK Hydroelectric Power Plant is a complex consisting of 3 separate facilities in Laguna, Philippines: (1) Caliraya Hydroelectric Power Plant, (2) Botocan Hydroelectric Power Plant, and (3) Kalayaan Pumped Storage Power Plant.

- Scope of Work**
- ❖ Transaction advisory services for the structuring and monetization of the project asset.

- Status**
- ❖ Expected commercial closure in 2025.





Project and Mandate Overview

Country	Kazakhstan
Sector	Energy
Name of Client	Ministry of Energy

Project Background and Description

❖ ADB aims to aid the Ministry of Energy in Kazakhstan's Renewable Energy Program to develop several 30MW to 100MW hydropower projects.

❖ After reviewing potential sites in Southeastern Kazakhstan, such as Tentek, Lepsy, Shelek, and Koxsu rivers, 3-5 sites in the Tentek river were prioritized for rapid development and tender/auction processes, based on technical, economic, and safeguards considerations.

Status

❖ ADB is conducting pre-feasibility studies for 3-5 sites, incorporating detailed implementation schedules and on-site surveys. These studies will present high-level project layout proposals, specifying design flow, active storage, design output, maximum output, average generation estimates, and capacity factors utilizing various percentile levels (10-90).



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Case Studies

Ninoy Aquino International Airport

Project and Mandate Overview

Country	Philippines	Name of Private Partner	SMC-SAP & Company Consortium (SSC) (San Miguel Holdings, Corp, RMM Asian Logistics Inc., RLW Aviation Development Inc., and Incheon International Airport Corp.)
Sector	Transportation	Project Size	US\$2.2 billion
Name of Public Sector	Department of Transportation (DOTr)	Timeline	13 months to Commercial Close
		Commercial Close	2024



Project Background and Description

❖ The Government of the Philippines is looking to optimize airport operations by expanding and modernizing the Ninoy Aquino International Airport (NAIA) through a Rehabilitate-Operate-Expand-Transfer arrangement.



Scope of Work

❖ ADB provided Transaction Advisory Services to prepare the project for a solicited tender process for the rehabilitation, expansion, operation, and maintenance of NAIA.



Key Structuring Points

❖ Optimized government receipts through an upfront and annuity payments, and revenue share



Climate Operations

❖ Incorporated climate adaptation and climate change measures such as requiring a minimum of 20% of the airport's energy needs and encouraging the use of Sustainable Aviation Fuel (SAF)



Impact

❖ Enhance and modernize airport capacity to address congestion, experience, reliability, and sustainability.
❖ Boost connectivity and economic growth.

Sherabad Solar PPP Project



Masdar
A MUBADALA COMPANY



ADB

Project and Mandate Overview

Country	Uzbekistan	Name of Private Partner	Abu Dhabi Future Energy Company (Masdar)
Sector	Energy	Project Size	US\$290 million
Name of Public Sector	National Electric Grid of Uzbekistan (NEGU)	Timeline	24 months to Commercial Close
		Commercial Close	2021
		Financial Close	2023



Project Background and Description

❖ In 2019, the Government of Uzbekistan (GoU) partnered with ADB for a 1GW solar Public-Private Partnership (PPP) program, initiating the Sherabad Solar PPP project, entailing the construction of a 457 MW solar power plant and a 52km transmission line near the city of Sherabad in Southern Uzbekistan.



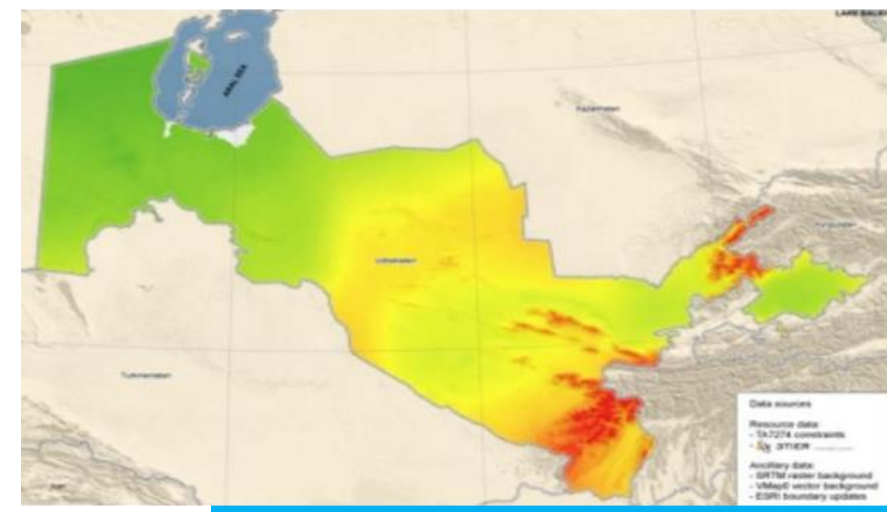
Key Structuring Points

- ❖ Enhanced risk allocation: ADB's advisory team devised a more favorable risk allocation for the GoU, ensuring improved key performance indicators, reduced due diligence risk, and shifted irradiation risk to bidders, ultimately delivering increased value for the GoU.
- ❖ ADB Partial Credit Guarantees (PCG) for power offtake: ADB structured a Payment Credit Guarantee (PCG) involving a letter of credit from an acceptable bank, backed by ADB, covering three months of ongoing payment obligations of the offtaker NEGU, subject to ADB policies, benefiting the project company.



Scope of Work

❖ Advised GoU on project structuring, negotiation, tender preparation, management, and facilitated commercial and financial closing.



Impact

- ❖ Boost in Uzbekistan's power generation capacity through local energy sources, the first large-scale power project in Surkhandarya province, facilitating an industrial park setup, and potential power exports.
- ❖ Attaining a tariff of 1.80 c/kWh, the lowest in Asia Pacific for grid-connected solar PV, now sets a benchmark for future solar tenders in Uzbekistan and the broader region.

Guzar Solar PPP Project



Masdar
A MUBADALA COMPANY



ADB

Project and Mandate Overview

Country	Uzbekistan	Name of Private Partner	Abu Dhabi Future Energy Company (Masdar)
Sector	Energy	Project Size	US\$250 million
Name of Public Sector	National Electric Grid of Uzbekistan (NEGU)	Timeline	23 months to Commercial Close
		Commercial Close	2023

Project Background and Description

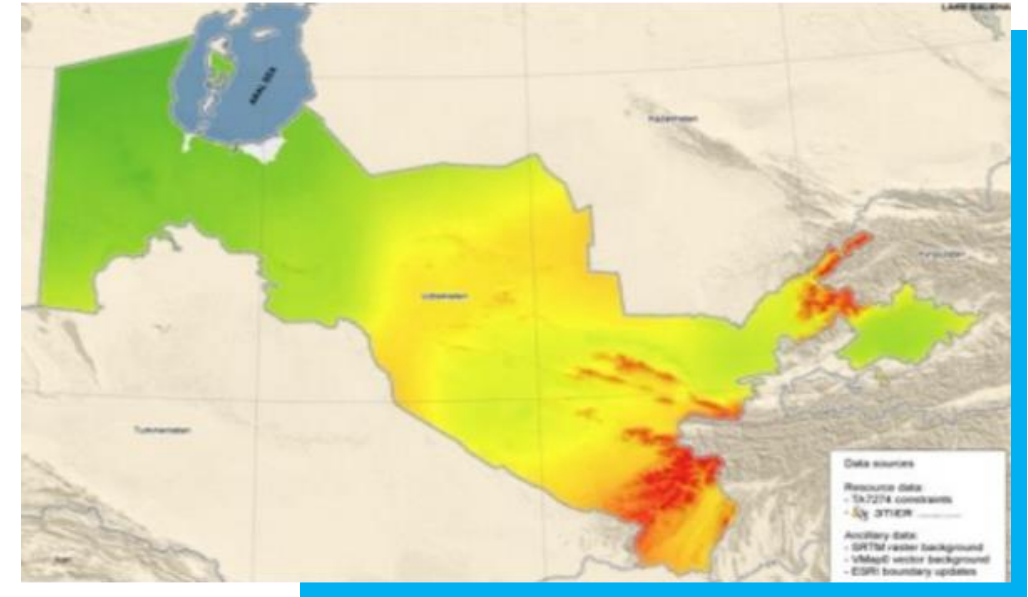
- ❖ Signed 1GW solar PPP program between the Government of Uzbekistan (GoU) and ADB in 2019
- ❖ Program includes the development and tendering of multiple solar Public-Private Partnership (PPP) projects
- ❖ Second phase involves construction and maintenance of a 300 MW solar power plant and a 75 MW battery energy storage system in Guzar, Kashkadarya District, Uzbekistan

Key Structuring Points

- ❖ Advisory team adjusted risk allocation to suit GoU's needs, ensuring improved performance KPIs and lower due diligence risk, enhancing value for Uzbekistan.
- ❖ ADB's Partial Credit Guarantee (PCG) to structure a letter of credit for the project company.
- ❖ This covered three months of NEGU's payment obligations, following ADB policies.

Scope of Work

- ❖ Advised GoU in project structuring, negotiation, and tender preparation, aiding commercial and financial closing.



Impact

- ❖ Increase in Uzbekistan's power generation capacity through local energy sources.
- ❖ Enhances living standards in the Kashkadarya region by providing clean energy to households and creating local employment during construction and operation.
- ❖ Achieved tariff of 3.00 c/kWh.

Rampura Amulia Demra (RAD) Expressway Project



CCCC
CHINA COMMUNICATIONS CONSTRUCTION COMPANY



中国路桥工程有限责任公司
CHINA ROAD & BRIDGE CORPORATION



Project and Mandate Overview

Country	Bangladesh	Name of Private Partner	Consortium of China Communications Construction Company Limited and China Road and Bridge Corporation
Sector	Transport (Roads)	Project Size	\$261 million
Name of Public Sector	Roads and Highways Department (RHD)	Timeline	5 years to Commercial Close
		Commercial Close	2022



Project Background and Description

❖ A 13.5km four-lane expressway that ensures a congestion-free link to major national highways like N1 and N2, bypassing the crowded city of Dhaka.



Key Structuring Points

- ❖ The country's first PPP project with Availability Payment (AP) Structure removes traffic risks from the private partner, reducing equity costs and the project's overall expense for the government.
- ❖ The AP is partially indexed to the US\$/Taka exchange rate, aiming to lower financing rates and limit RHD payments due to the limited availability of long-term taka financing in the market.
- ❖ A competitive tender secured an AP bid of \$127 million, 41% below the government's expectation.



Scope of Work

❖ Advised RHD on project structuring, negotiation, tender execution, and commercial award support.



Impact

- ❖ Improved road connections between Dhaka and key districts including Narayanganj, Chittagong, and Sylhet via a new congestion-free gateway.
- ❖ This enhanced corridor contributes to a better quality of life for road users, fostering capacity building within RHD for the new PPP modality (AP Structure).

Namangan Wastewater Treatment Plant (WWTP) PPP Project



Project and Mandate Overview

Country	Republic of Uzbekistan	Name of Private Partner	Metito Utilities Limited
Sector	Urban Infrastructure (water and wastewater)	Project Size	\$96 million
Name of Public Sector	Ministry of Housing and Communal Services (MHCS)	Timeline	2.5 years to selection of winning bidder in December 2021
		Commercial Close	2022

Project Background and Description

❖ Constructing a 100 million liters per day wastewater treatment plant (WWTP) and an 8-km effluent discharge pipeline in Namangan to replace the non-operational existing WWTP.

Scope of Work

❖ Advised MCHS in structuring, negotiating, executing the tender, and supporting both the commercial award and financial closure.



Key Structuring Points

- ❖ The Republic of Uzbekistan stands as the primary public partner, assuring the Public-Private Partnership (PPP) Authority's obligations and payment commitments.
- ❖ Availability Payment (AP) Structure helps mitigate demand risks for the private partner, improving project viability.
- ❖ Partial indexation of availability payments to the US\$/UZS exchange rate supports sponsors in borrowing US\$ due to limited long-term UZS financing.

Impact

- ❖ Country's inaugural water and wastewater PPP project meets global standards.
- ❖ Mitigates environmental damage from untreated wastewater in the Syr-Darya river.
- ❖ ADB-designed contract templates facilitate future PPP projects in water and wastewater sectors.
- ❖ MHCS benefits from capacity building through “learning through doing”.

Dili Solid Waste Management (DSWM) Project



Project and Mandate Overview

Country	Timor Leste	Name of Private Partner	Equipment: China Nuclear Industry 22 nd Construction Company Landfill Design-Build-Rehabilitate-Operate (DBRO): China Harbour Engineering Company in JV with Pax Cleaning Services and Pioneer Construction Waste collection and transportation services: China Harbour Engineering Company in JV with Pax Cleaning Services
Sector	Waste Management	Project Size	\$36.5 million
Name of Public Sector	Ministry of State Administration (MSA) Dili Municipal Authority (DMA)	Timeline	4.5 years to selection of winning bidders on Feb 18, 2022
		Commercial Close	2022



Project Background and Description

- ❖ Enhancing Dili's solid waste management system through DBRO approach to improve landfill operations, waste collection and transportation services, and the provision of new equipment.



Scope of Work

- ❖ Administering technical assistance for the project's tender preparation and conducting the tender process, including document preparation, bid conferences, evaluations, and negotiations.
- ❖ Ongoing project monitoring aid via additional Asia Pacific Project Preparation Facility (AP3F) grant.



Key Structuring Points

- ❖ Differentiated approach for Fragile and Conflict-Affected Situation (FCAS) & Small Island Developing States (SIDS) country: Altered approach to minimize government's payment risks and encourage private sector involvement
- ❖ Tender approach: Secured guaranteed funding from Infrastructure Fund for major expenses, addressing international bidder concerns; State budget covered operational costs
- ❖ Government-funded output-based Public-Private Partnership (PPP) contracts: Initiated monthly progress payments by government to private sector during the design-build phase, differing from traditional PPP contracts where payments start post-completion



Impact

- ❖ Timor Leste's 2nd PPP project and its 1st in waste management sector
- ❖ Enhanced public health and environment by curbing waste burning and treating leachate.

Cambodia National Solar Park



Project and Mandate Overview

Country	Cambodia	Name of Private Partner	Prime Road (phase 1) Trina Solar (phase 2)
Sector	Energy	Project Size	US\$40 million (phase 1) US\$23 million (phase 2)
Name of Public Sector	Electricite du Cambodge (EDC)	Timeline	24 months to Commercial Close
		Commercial close:	2020 (phase 1) 2022 (phase 2)



Project Background and Description

❖ In two phases, EDC secured 100 MW of solar PV power for the SERD-supported Cambodian National Solar Park, with Phase 1 at 60 MW and Phase 2 at 40 MW.



Scope of Work

❖ Advised the Bases Conversion and Development Authority (BCDA) on project structuring, negotiation, tender preparation, management, and provided support for commercial and financial closing.



Key Structuring Points

- ❖ Procurement method: Competitive bidding yielded notably lower tariffs compared to feed-in-tariffs and bilateral negotiations in the project demonstration.
- ❖ Land: Assigning land procurement responsibility to the public sector notably amplifies private company interest and results in reduced tariffs, particularly in nations with emerging solar industries.



Impact

❖ Cambodia boosted its energy capacity with local sources, achieving the lowest tariffs in ASEAN for grid-connected solar PV at 3.9 c/kWh (phase 1) and 2.6 \$ c/kWh (phase 2), influencing bilaterally negotiated deals in the country and demonstrating the cost competitiveness of properly tendered and structured solar projects in Asia, which impacted countries like Vietnam.

Water Concession for Metro Manila and the Philippines



ADB

Project and Mandate Overview

Country	Philippines	Name of Private Partner	Not Applicable
Sector	Water	Project Size	Not Applicable
Name of Public Sector	Department of Finance	Timeline	12 months to develop model concession agreement template
		Commercial Close	2021



Project Background and Description

❖ After the New Clark City (NCC) Water Project's success, the Department of Finance (DOF) sought ADB's help to create equitable and bankable concession terms for Metro Manila.



Scope of Work

❖ Development of a model Concession Agreement (CA) template (model CA)



Key Structuring Points

❖ Enhanced Governance: The Model CA outlined international best practices for the Regulator's roles, Long-term Planning, Reporting, Termination, Material Adverse Government Action (MAGA), Force Majeure, and Dispute Resolution.

❖ Fair Commercial Terms: The Model CA improved Tariff Setting and Termination Payment mechanisms for fairness to both concessionaire and consumers.



Impact

❖ Implementing international best practices will ensure well-planned and well-governed water concessions, fostering standardization of equitable and bankable terms to enhance the water sector's appeal for private sector participation.



Tashkent District Heating Project



Project and Mandate Overview

Country	Uzbekistan	Name of Private Partner	Veolia Energy Tashkent
Sector	Energy	Project Size	Eur 1.4 billion
Name of Public Sector	Tashkent City Municipality (TCM)	Timeline	26 months to Commercial Close
		Commercial Close	2021
		Financial Close	2022



Project Background and Description

❖ Tashkent City Municipality (TCM) received an unsolicited proposal (USP) for the refurbishment and long-term operation of Tashkent City District Heating (DH) Network, implemented as a privately-initiated project under the Public-Private Partnership (PPP) Law with technical assistance from ADB's Asia Pacific Project Preparation Facility.



Scope of Work

❖ Transaction Advisor for TCM, providing assistance in project structuring, tender preparation, negotiation, commercial closing support, and project monitoring for the project's implementation.



Key Structuring Points

- ❖ In this hybrid PPP structure, the private partner manages the network, bill invoicing and collection, with modernization funded from collected tariffs and government support for tariff affordability.
- ❖ The public partner finances the Modernization and Public Investment Programs through a dedicated fund established solely for the project within TCM.



Impact

- ❖ The project reconfigures the open network to an integrated heat supply scheme, enhancing safety and achieving gas, energy, and water savings of 25 - 40%.
- ❖ By introducing metering devices, it promotes awareness of sustainable energy usage among citizens and local businesses, supported by a \$20 million private sector investment.

Palau Solar PV IPP Project



Palau Public Utilities Corporation
Today's Conservation is Tomorrow's Prosperity

SOLAR PACIFIC

ADB

Project and Mandate Overview

Country	Palau	Name of Private Partner	Solar Pacific Energy Corporation (Philippines)
Sector	Energy	Project Size	\$24 million (approx.)
Name of Public Sector	Palau Public Utilities Corporation (PPUC)	Timeline	23 months from mandate date to commercial close
		Commercial Close	2021



Project Background and Description

❖ Phase-1 of the PV Independent Power Producer (IPP) project (13MW solar PV and 15 MWh battery energy storage) is the first IPP in Palau and one of the largest in the Pacific, aiming to supply 20% of Palau's energy needs, with future expansion potentially meeting up to 45%.



Scope of Work

❖ Complete transaction advisory services (Project preparation and monitoring)



Key Structuring Points

❖ Utilization of a 20-year long-term power purchase agreement, supported by the Palau Government without a payment guarantee.



Impact

- ❖ Renewable energy development
- ❖ Private sector development in the Pacific frontier market



Project and Mandate Overview

Country	Philippines	Name of Private Partners	Gemalto, NexIX, FMC Research Solutions, Idemia Identity and Security France, Megadata Corporation, and Madras Security Printers.
Sector	Information and Communications Technology (ICT)	Project Size	PHP1.87 billion awarded + PHP2.7 billion budget for ongoing tender
Name of Public Sector	PhilSys Policy and Coordination Council (PSPCC) Philippine Statistics Authority (PSA)	Timeline	Final procurement package awarded in August 2020
		Commercial Close	2020



Project Background and Description

- ❖ PhilSys serves as the fundamental identification system for all citizens and resident aliens of the Philippines, providing digital proof of their identity.



Scope of Work

- ❖ Technical support for procurement, monitoring, evaluation, communications, capacity building, and financial inclusion.



Key Structuring Points

- ❖ Robust, secure, and sustainable design for the Philsys platform ensures a unique, accurate identity, interoperability, responsiveness to user needs, open standards, vendor neutrality, and user privacy control.
- ❖ Phased procurement is divided into 3 packages to secure the best technical design and lowest cost at each stage while ensuring interoperability and vendor neutrality.



Impact

- ❖ Enhance public and social service efficiency, transparency, and targeted delivery, while reducing corruption, bureaucratic red tape, and fraudulent transactions to strengthen financial inclusion and business ease.



Solomon Islands Tina River Hydropower Project

Project and Mandate Overview

Country	Solomon Islands	Name of Private Partner	K-water and Hyundai Engineering (jointly Tina Hydropower Limited)
Sector	Energy	Project Size	US\$210 million
Name of Public Sector	Ministry of Finance and Treasury (MOFT)	Timeline	22 months till Technical Assistance Completion
		Completed	2019



Project Background and Description

❖ Solomon Islands secured a 15 MW hydropower plant, marking the country's first Public-Private Partnership (PPP) project under the independent power producer (IPP) scheme.



Scope of Work

❖ Lead Coordinator for Concessional Financiers overseeing the signing of a Memorandum of Understanding, facilitating coordination and fund disbursement among co-financiers—ADB, Green Climate Fund, International Development Association, Korea EXIM, Abu Dhabi Fund for Development, and the Government of Australia.



Key Structuring Points

❖ Innovative financing approach used by MOFT involved blended and project financing, significantly reducing overall funding costs.
❖ Developed Project Financial Operations Manual (PFOM) for MOFT's capacity building to manage the complex transaction through legal engagement.



Impact

❖ Anticipated 60% reduction in retail electricity tariff upon project operation
❖ Increase in employment and women's participation via a Gender Action Plan
❖ Community benefits expected in water supply, sanitation, education, and roads
❖ Aimed Community Benefit Sharing Scheme after project implementation

Dhaka Bypass Toll Road



Project and Mandate Overview

Country	Bangladesh	Name of Private Partner	Sichuan Road and Bridge Group and Shamim Enterprise consortium
Sector	Transport	Project Size	US\$412 million
Name of Public Sector	Bangladesh Roads and Highways Department (RHD)	Timeline	30 months to commercial award
		Commercial Close	2019



Project Background and Description

❖ Dhaka will expand its N105 highway to four lanes, linking northern industrial zones with key national highways across the country.



Scope of Work

❖ As the transaction advisor to RHD, facilitated in project structuring, negotiation, tender execution, and provided support for commercial award.



Key Structuring Points

- ❖ Minimum revenue guarantee structured to shield commercial lenders while dividing demand risk between the private partner and the government.
- ❖ A competitive tender produced a viability gap funding bid of \$27 million, marking a 76% discount from the government's initial expectation.



Impact

❖ First Public-Private Partnership (PPP) road project in Bangladesh developed to international standards. It sparks investor interest in future Bangladesh PPPs, alleviates congestion in key road arteries in Dhaka, establishes contract templates applicable for upcoming PPP projects, and enhances the capacity of RHD officials.

New Clark City Power Distribution Infrastructure



Marubeni

Kansai Electric Power
power with heart



Project and Mandate Overview

Country	Philippines	Name of Private Partner	Meralco, Marubeni, Kansai Electric and Chubu Electric consortium
Sector	Energy	Project Size	PHP6.3 billion
Name of Public Sector	Bases Conversion and Development Authority (BCDA)	Timeline	13 months to Commercial Close
		Commercial Close	2019



Project Background and Description

❖ Establishing the Philippines' first fully underground power distribution system with smart grid features, including advanced metering infrastructure, smart transformers, and Supervisory Control and Data Acquisition (SCADA) systems through a future-proofed design.



Scope of Work

❖ Served as a transaction advisor to BCDA, aiding in project structuring, market sounding, tender preparation, tender management, and legislative franchise application.



Key Structuring Points

❖ Joint venture structure was implemented for stronger public oversight, pursuing green initiatives via renewable power sourcing requirements, and selecting the winning bidder based on the lowest initial power distribution tariff for a highly competitive rate.



Impact

❖ Integrated sustainability and climate resilience in design and implementation, resulting in the Philippines' lowest distribution tariff (PHP0.6188/kWh), acting as a positive example to attract firms to New Clark City.

New Clark City Water and Wastewater Infrastructure



Project and Mandate Overview

Country	Philippines	Name of Private Partner	Primewater, Tahal Consulting, Prime Asset Ventures and MGS Construction consortium
Sector	Urban Development	Project Size	PHP10 billion
Name of Public Sector	Bases Conversion and Development Authority (BCDA)	Timeline	10 months to Commercial Close
		Commercial Close	2018



Project Background and Description

❖ Creating eco-friendly, smart, and disaster-resilient water and wastewater infrastructure, incorporating advanced features like water treatment, metering infrastructure, and effluent reuse.



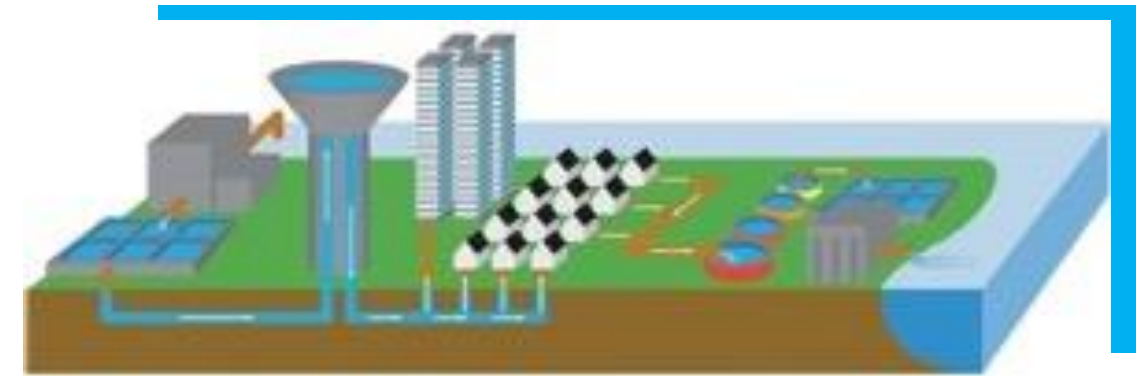
Scope of Work

❖ Advised BCDA on project structuring, market sounding, and oversaw tender preparation and management.



Key Structuring Points

❖ Implemented a joint venture structure to fortify public sector oversight and advance water conservation and resiliency by enforcing rigorous KPIs for water access, quality, and wastewater, incorporating intelligent measures for groundwater preservation, all under an innovative tariff system.



Impact

❖ Integrated sustainability and climate resilience in design and implementation, introducing operational expertise and global best practices, serving as a disaster coordination zone for the country, including for COVID-19, while maintaining a highly competitive and the lowest tariff rate in the Philippines at PHP9.45/m3.

New Clark City National Government Administrative Center (NGAC)

Project and Mandate Overview

Country	Philippines	Name of Private Partner	MTD Alloy Berhad
Sector	Urban Development	Project Size	PHP12.7 billion for Phase 1A (PHP35.7 billion for full Phase 1)
Name of Public Sector	Bases Conversion and Development Authority (BCDA)	Timeline	5 months to Commercial Close
		Commercial Close	2018



Project Background and Description

❖ Constructed as a backup government hub in the Philippines, serving as a disaster coordination and recovery zone, it also houses an athletic and aquatic center used for the successful Southeast Asian Games in December 2019.



Scope of Work

❖ Served as BCDA's transaction advisor, aiding in project structuring, negotiation, tender preparation, management, and financial closure.



Key Structuring Points

❖ Implemented a phased approach to align interests among parties while maintaining lower availability payments.



Impact

❖ Designed with sustainability and climate resilience at its core, the facility features top-notch training amenities for the Philippine national team, also serving as a disaster coordination zone, including for COVID-19, while achieving cost savings through industry benchmarking and leveraging technical suggestions from the River Study Plan.