



Private Sector Infrastructure Finance Division 2 East Asia, Southeast Asia, and the Pacific (PSIF2)

22 October 2020



Presented by Jackie B. Surtani, Director, PSOD/PSIF2





Infrastructure Finance Division 2

Team and Unit Heads



Jackie B. Surtani Director, PSIF2

40 colleagues across Manila, Bangkok, Beijing, Jakarta and Sydney

15 nationalities

27 IS/NS positions

41% female

48% outposted

5 operations assistants

4 consultants, 2 secondees, 2 YPs

4 Unit Heads

One team!



Unit Head, East Asia



Hisaka Kimura Advisor

Unit Head, Greater Mekong Region



Daniel Wiedmer Principal Investment Specialist

Unit Head, INO and MAL



Yuichiro Yoi Principal Investment Specialist

Unit Head, PHI and Pacific

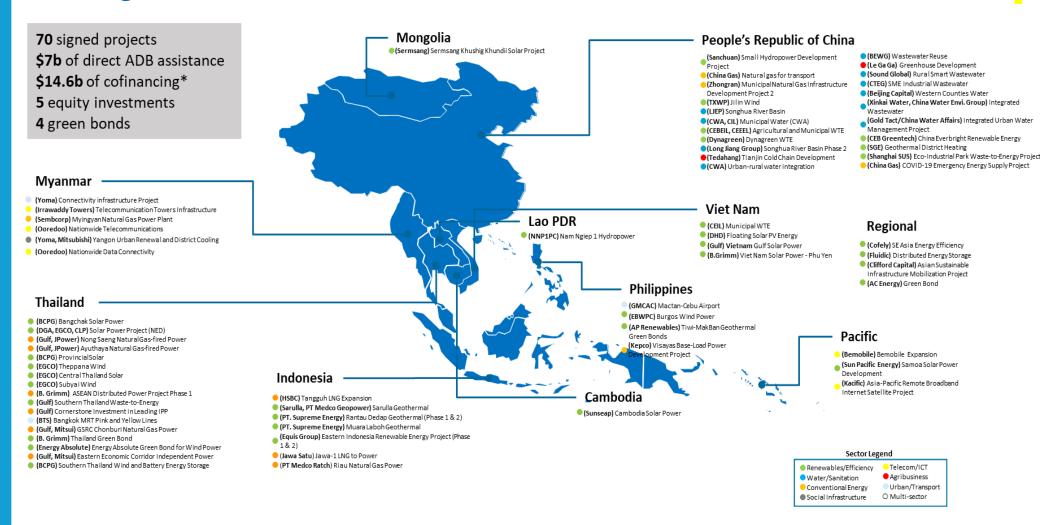


Alix Burrell
Principal Investment Specialist



PSIF2 Operations

Deals signed in East Asia, Southeast Asia, and the Pacific between 2010-2020





^{*} Includes B loans, guarantees, parallel loans or equity, and risk transfers



PRC: COVID-19 Emergency Energy Supply Project

Case Study 1

Key Features

- The proceeds of this loan will be used to help ensure natural gas and liquefied petroleum gas supplies to households, hospitals, industry and other key services to support business continuity in Wuhan City and Hubei Province amidst the coronavirus disease 2019 (COVID-19) epidemic, and post-epidemic recovery. The loan will enhance the resilience of cities through the sustenance of uninterrupted energy supplies to meet basic human needs and support economic activity in these affected areas.
- CGCM, incorporated in the British Virgin Islands, is a wholly owned financing platform of China Gas Holdings (CGH), the sponsor and guarantor. CGH is the largest integrated gas distribution company in the PRC. Additional business lines include gas terminals, transmission lines, vehicular compressed natural gas and LNG, and gas logistics systems.

ADB's Value Addition

- Catalytic in mobilizing further commercial bank loans.
- Increase the gender responsiveness of CGH's community activities in Hubei Province and extract lessons from the epidemic response.
- Contributes to the global response to maintain basic services while containing a growing global health emergency that has affected ADB's DMCs in Asia and the Pacific.

Client China Gas Holdings

Signing Date 31 March 2020

Sector Energy

Financing Modality Direct loan

Amount \$20m







MON: Sermsang Khushig Khundii Solar Project

Case Study 2

Transaction Highlights

 ADB provided a 10-year loan to an international consortium to support a landmark 15MW utility-scale solar power project in Mongolia.

Development Impacts

- The project will generate clean electricity totaling 22.3 gigawatt-hours annually and reduce carbon dioxide emissions by 26,400 tons per year.
- The project will provide affordable, sustainable power to Ulaanbaatar and the International Airport of Ulaanbaatar.

Client Sermsang, Sharp, and Tenuun Gerel

Signing March 2019

Sector Clean Energy (Solar)

Modality A+B loan, Technical Assistance

ADB \$9.6 million \$9.1 million





THA: Bangkok Mass Rapid Transit Project

Case Study 3

Transaction Highlights

- The project will construct and operate two mass rapid transit monorail lines, the Pink Line and Yellow Line.
- Funded through a PPP scheme with ridership risk following a 10-year government subsidy.
- ADB will provide a loan with longer tenor ("ridership ramp-up tranche") to mitigate the ridership risk following the expiry of a government subsidy.

Development Impacts

- Supports low-carbon mass rapid public transport in one of Southeast Asia's largest cities.
- Demonstration effect for development of private sector mass rapid transport projects under new PPP structures.

Client BTS

Signing June 2018

Sector Transportation

Modality A loan

ADB \$310 million in baht equivalent







THA: Southern Thailand Wind Power and Battery Energy Storage ProjectCase Study 4

Transaction Highlights

- The first wind farm with battery energy storage in Thailand.
- 10 MW of wind power capacity with an integrated 1.88 MWh pilot battery energy storage system (BESS).

Development Impacts

- Mobilize financing package, including concessional finance from the clean technology fund (CTF), that makes the project bankable on a nonrecourse basis.
- Provided longer tenor than the participating commercial bank to help improve debt service coverage ratios and improve the project's financial viability.
- Set a precedent in Thailand for financing wind power projects with an integrated BESS.

Signing May 2020

Sector Clean energy (wind with BESS)

Modality A loan; CTF

ADB B235.55 million (about \$7.7m);

\$4.75m







INO: Geothermal Projects in Indonesia

Case Study 5

Project Highlights

- Support for three landmark private sector geothermal projects in Sumatra, Indonesia over several years:
 - 330 MW Sarulla
 - 80 MW Muarah Laboh
 - 92 MW Rantau Dedap
- Nearly \$500 million of ADB OCR assistance.
- Mobilised \$170 million of concessional donor funds and \$20 million from LEAP parallel, and \$1.5 billion of commercial cofinancing.

Development Impacts

- Large scale, base load renewable energy source to support Indonesia's economic growth.
- Demonstration effect for development of private sector geothermal projects under new PPP/PPA structures.

Client Various

Signing 2014,2017,2018

Sector Clean Energy (Geothermal)

Modality A loan; CTF; CFPS; LEAP

ADB Nearly \$500 million

CTF, CFPS, CTF: \$150m; CFPS: \$20m; LEAP:

LEAP \$20m;







REG: Asia-Pacific Remote Broadband Internet Satellite ProjectCase Study 6

Transaction Highlights

- Project finance (non-recourse) loans for the construction and operation of a shared geostationary, highthroughput satellite.
- Connectivity for remote areas of Asia and the Pacific that are hard to reach otherwise.
- Kacific aims to provide low-cost, high-speed, and easily accessible broadband internet.

Development Impacts

- Greatly enhances regional telecommunications infrastructure.
- Will help increase access to education and medical care.

Client Kacific Broadband Satellites Pte. Ltd.

Signing November 2019

Countries Indonesia, Philippines, and the

Pacific

Sector Telecommunications and IT

Modality A loan; LEAP

ADB \$25 million; \$25 million







REG: AC Energy Green Bond Project

Case Study 7

Transaction Highlights

- ADB acted as an anchor investor in AC Energy's maiden green bond issuance.
- Unlocking over 2GW of solar and wind.
- First listed certified climate bond in Southeast Asia.
- Successful follow-on perpetual offering.

Development Impacts

- Ensure that bonds will comply with the Green Bond Principles and the Climate Bonds Standard.
- Helped to make green bonds and climate bonds better known in the region.
- Helps demonstrate support for alternatives to project loan markets for financing clean energy projects.

Client AC Energy

Countries Philippines, Indonesia, Viet Nam

Signing January 2019

Sector Clean Energy (solar and wind)

Modality A loan

ADB \$20 million







REG: Pacific Renewable Energy Program

Case Study 8

Program Highlights

- Focused on long-standing barriers to private sector investment into energy projects in the Pacific.
- Flexibility to draw on a variety of assistance:
 - Direct loans;
 - Partial credit guarantees for payment risk;
 - Political risk guarantees for contract risk;
 - Technical assistance for project preparation.

Development Impacts

- Helps to create an enabling environment and address key investment risks to promote private sector investment.
- Encourages greater transparency and governance through technical assistance.

Client(s)	Various
Countries	Fiji, Palau, Samoa, Tonga

Signing 2021 onwards (first IC approval in Sept

2020)

Sector Clean Energy (solar, energy storage,

wind)

Modality A loan; PRG; PCG

ADB \$100 million







VIE: Floating Solar Energy Project (DHD)

Case Study 9

Transaction Highlights

- 47.5 MW of floating solar photovoltaic power generation panels on the reservoir of DHD's existing 175 MW Da Mi hydropower plant.
- One of the first utility-scale, solar projects in Viet Nam and one of the largest floating solar projects outside the PRC.
- Provides long term dollar financing not readily available in Viet Nam.

Development Impacts

- Will demonstrate viability of floating solar power projects in Viet Nam and the region.
- Ensure DHD's compliance with environmental and social safeguard standards.

Client(s) DHD (EVN genco subsidiary)

Signing Sept 2019

Sector Clean Energy (floating solar)

Modality A loan; CFPSII; CFPSI; LEAP

ADB \$17.6 million

CFPSII; CFPSI; \$4 million; \$11 million; \$4.4 million

LEAP







REG: Asian Sustainable Infrastructure Mobilization ProjectCase Study 10

Transaction Highlights

- \$95 million equity investment to support Clifford Capital Holdings' expansion of sustainable infrastructure across developing Asia.
- ADB's first investment in a Singapore entity since the opening of ADB's Singapore office in March 2020.
- ADB will be Clifford Capital's first multilateral investor.

Development Impacts

- Support sustainable and inclusive growth as a strategic shareholder.
- Boost mobilization of private sector capital.
- Strengthen environmental and social safeguards and capacity building.
- Improve gender inclusivity at Clifford Capital.

Client Clifford Capital Holdings

Signing September 2020

Countries Regional

Sector Infrastructure

Modality OCR Equity; LEAP parallel

equity

ADB / LEAP \$50 million; \$45 million







2019 Awards for PSIF2 transactions









ADB Ventures supports and invests in early-stage technology companies solving big problems in emerging Asia

ADB VENTURES

The venture capital arm of the Asian Development Bank

OUR FOCUS Provide funding and support to early-stage technology companies with significant potential to solve big problems in emerging Asia

OUR APPROACH Leverages ADB's unique public and private sector networks across Asia to de-risk and accelerate market access and scale-up

OUR VISION To crowd in more than \$1 billion of venture risk capital towards achieving the SDGs by 2030

ADB Ventures Investment Fund 1

- \$60m venture capital fund
- Pre-Series A / Series A
- Typically \$500k to \$3m (up to \$4m) for initial investments
- About 7-8 investment per year
- Tech-enabled solutions and business models
- Cleantech / Agritech / Fintech / Healthtech
- Focus on South / Southeast Asian markets
- Businesses can be domiciled anywhere
- Targeting commercial returns
- Co-investing with leading early-stage investors
- Climate and gender investment lens
- Opportunity for ADB to add direct value
- Operational from August 2020

ADB Ventures **Seed Program**

- Typically \$50-\$150k (up to 200k)
- Pre-Series A / Series A
- Validate and access emerging Asian markets
- Reimbursable grants with investment rights
- Simplified, fast due diligence process
- About 8-12 reimbursable grants per year

ADB Ventures Labs

- De-risk market entry and accelerate market access by matching technologies with large customers (corporate, government)
- Partnering with leading tech accelerators
- 2020 Labs: Energy (building) Lab, Water Lab and Sustainable Travel Lab.



Visit https://ventures.adb.org/ for further details.





THANK YOU!

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