



# BUSINESS OPPORTUNITIES FAIR



Asian Development Bank Headquarters, Manila, Philippines

## 9<sup>th</sup> ADB Business Opportunities Fair

Energy Division, Southeast Asia Regional Department

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# ADB Southeast Asia Regional Department Energy Division (SEEN)

## Ongoing Operations

- **Cambodia**
- **Indonesia**
- **Lao PDR**
- **Myanmar**
- **Philippines**
- **Viet Nam**



# Challenges

- **Challenges**

- Access, especially access among the poor
- Dependence on imported fossil fuels
- Carbon footprint
- Regional connectivity
- Grid development
- Energy efficiency
- Institutional development

- **Resources**

- \$2.7 trillion investment in energy supply and efficiency through 2040 in ASEAN<sup>1</sup>

<sup>1</sup> International Energy Agency. *Southeast Asia Energy Outlook 2017*. 2017. Paris

# SOUTHEAST ASIA KEY ENERGY SECTOR FOCUSES

## INFRASTRUCTURE DEVELOPMENT

- Power generation
- Transmission
- Distribution

## LOW CARBON DEVELOPMENT

- Renewable energy
- Energy efficiency/loss reduction (supply, demand)
- Carbon Capture & Storage

## ACCESS TO ENERGY

- Providing access to modern forms of energy to the unconnected
- On-grid and off-grid
- OBA<sup>1</sup>

## POWER SECTOR REFORMS

- Sector restructuring/ unbundling
- Institutional Development

## REGIONAL INTEGRATION

- GMS (RPTCC)<sup>2</sup>
- ASEAN<sup>3</sup>
- BIMP-EAGA<sup>4</sup>

<sup>1</sup> Output-Based Aid

<sup>2</sup> Greater Mekong Subregion (Regional Power Trade Coordinating Committee)

<sup>3</sup> Association of Southeast Asian Nations

<sup>4</sup> Brunei Darussalam-Indonesia-Malaysia-Philippines East ASEAN Growth Area

# Lending Pipeline - 2018

<b>DMC</b>	<b>Project</b>	<b>Indicative Loan Amount (\$ million)</b>
<b>CAM</b>	<b>National Solar Park Project (Standby)</b>	<b>34</b> (COL= 20 + SREP = 14)
<b>INO</b>	<b>Sustainable Energy Access in Eastern Indonesia (SEAEI)– Power Generation Sector Program</b>	<b>635</b> (OCR= 600 + AIF = 15)
<b>MYA</b>	<b>Power Network Development Project</b>	<b>299</b>

Note: Projects are indicative, pending ADB Management and Board approval, and approval timelines are subject to change.

# Lending Pipeline - 2019-2020

DMC	Project	Indicative Loan Amount (\$ million)	ADB Approval
INO	SEAEI-Power Transmission Sector Project (standby)	550 (OCR=500+ AIF=50)	2019
INO	SEAEI-Grid Development Program Phase 2 (Results based lending)	305 (OCR=300+ CEFP=5)	
INO	Sustainable and Inclusive Energy, Subprogram 3 (Policy based loan) - standby	400 (OCR= 400 + AFD/KfW/WB =410)	
LAO	GMS Northern Cross-border Power Trade and Distribution Project	27 (COL=24.4 + ADF=3)	
INO	Geothermal Power Sector Project	300	2020
VIE	To be confirmed		

SEAEI=Sustainable Energy Access in Eastern Indonesia

<sup>a</sup> Potential co-financing by the WB, KfW and AFD

Note: Projects are indicative, pending ADB Management and Board approval, and approval timelines are subject to change.

# Technical Assistance Pipeline- 2018

<b>DMC</b>	<b>Project</b>	<b>\$ million</b>
<b>REG</b>	<b>TRTA Facility-Sustainable and Inclusive Electricity Services in the ASEAN Region</b>	<b>3.5</b>
<b>INO</b>	<b>Geothermal Project Preparation</b>	<b>1.0</b>
<b>INO</b>	<b>Power Transmission Project Preparation</b>	<b>1.0</b>

**Note: Projects are indicative, pending ADB Management and Board approval, and approval timelines are subject to change.**

# Tentative ICB Packages - 2018

Loan/ Grant No.	Project Name	Amount (\$ million)	Description
Loan 3374 Viet Nam	Power Transmission Investment Program, Tranche 3	42	Goods and works –  500 kV Duc Hoa substation and connections &  220 kV Binh Long-Tay Ninh transmission line



# Tentative ICB Packages - 2018

Loan/ Grant No.	Project Name	Amount (\$ million)	Description
Loan 3161/8286 Viet Nam	Ha Noi and Ho Chi Minh City Power Grid Development Sector Project	5.7	Supply of substation materials and equipment
		3.3	Construction of 110 kV GIS substation
		7.0	Supply and install 110 kV underground cable.
		4.7	Supply and install underground cable 220/110 kV Cau Bong - Binh Tan power line
		5.8	Construction of overhead 220 kV and 110 kV line (H3HC to G19)
		15.0	Supply and install 220 kV underground cable (Cat Lai - Tan Cang power line)
		8.1	Supply and construct 220 kV overhead line (Cat Lai - Tan Cang)
		3.8	Goods and works (substations)

Total 53.4

## Tentative ICB Packages – 2018 bidding

Loan No.	Project Name	Amount (\$ million)	Description
Project 49203-Indonesia (advance actions)	Sustainable Energy Access in Eastern Indonesia-Power Generation Sector Program	200-250	150 MW Gas-fired power plant (Sulawesi)
			100 MW Gas-fired power plant (Kalimantan)

Loan No.	Project Name	Amount (\$ million)	Description
Loan 3330 Myanmar	Power Transmission Improvement project	15	Plant supply design and installation of 19 km monopoles 230 kV transmission line in Yangon
		45	Plant supply design and installation of three 230 kV substations in Yangon

# Aspects for your attention

- Procurement process is solely driven by the Borrower, The dates in the presentation are tentative.
- Engagement of Consultants to support Technical Assistances is driven by ADB
- Understand the country context is crucial because the countries have unique challenges
- Deploy teams having right expertise and experience.
- Technical experts shall have experience in advance technologies, smart grid, renewable energy integration and utility practices

# Contact person

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