



Regional: Integrated High Impact Innovation in Sustainable Energy Technology

Project Name	Integrated High Impact Innovation in Sustainable Energy Technology																
Project Number	52041-001																
Country	Regional																
Project Status	Active																
Project Type / Modality of Assistance	Technical Assistance																
Source of Funding / Amount	<table border="1"><thead><tr><th colspan="2">TA 0033-REG: Integrated High Impact Innovation in Sustainable Energy Technology</th></tr></thead><tbody><tr><td>Clean Energy Fund under the Clean Energy Financing Partnership Facility</td><td>US\$ 1.00 million</td></tr><tr><td>Climate Change Fund</td><td>US\$ 1.00 million</td></tr><tr><td>Republic of Korea e-Asia and Knowledge Partnership Fund</td><td>US\$ 1.00 million</td></tr><tr><td>Carbon Capture and Storage Fund under the Clean Energy Financing Partnership Facility</td><td>US\$ 2.00 million</td></tr><tr><td>Clean Technology Fund</td><td>US\$ 500,000.00</td></tr><tr><td>United States Agency for International Development</td><td>US\$ 100,000.00</td></tr><tr><td>Urban Climate Change Resilience Trust Fund under the Urban Financing Partnership Facility</td><td>US\$ 1.00 million</td></tr></tbody></table>	TA 0033-REG: Integrated High Impact Innovation in Sustainable Energy Technology		Clean Energy Fund under the Clean Energy Financing Partnership Facility	US\$ 1.00 million	Climate Change Fund	US\$ 1.00 million	Republic of Korea e-Asia and Knowledge Partnership Fund	US\$ 1.00 million	Carbon Capture and Storage Fund under the Clean Energy Financing Partnership Facility	US\$ 2.00 million	Clean Technology Fund	US\$ 500,000.00	United States Agency for International Development	US\$ 100,000.00	Urban Climate Change Resilience Trust Fund under the Urban Financing Partnership Facility	US\$ 1.00 million
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Strategic Agendas	Environmentally sustainable growth Inclusive economic growth																
Drivers of Change	Governance and capacity development Knowledge solutions Partnerships Private sector development																
Sector / Subsector	Energy - Conventional energy generation - Electricity transmission and distribution - Energy efficiency and conservation - Energy sector development and institutional reform - Energy utility services - Large hydropower generation - Oil and gas transmission and distribution - Renewable energy generation - biomass and waste - Renewable energy generation - geothermal - Renewable energy generation - small hydro - Renewable energy generation - solar - Renewable energy generation - wind Information and communication technology - ICT industries and ICT-enabled services - ICT strategy and policy, and capacity development Transport - Urban roads and traffic management																
Gender Equity and Mainstreaming	Some gender elements																
Description	The proposed knowledge and support technical assistance (TA) will prepare energy system development scenarios, technology roadmaps and support the scale up of innovative energy technologies in developing member countries (DMCs). The TA is aligned with ADB's energy policy and will support DMCs in meeting the 2030 Sustainable Development Goals (SDGs) and their Nationally Determined Contributions (NDCs) as part of the Paris Agreement on climate change. The TA is included in the management-approved Energy Sector Group work plan for 2018.																

Project Rationale and Linkage to Country/Regional Strategy	<p>The SDGs encourage a transformative change in production systems, employment patterns, technologies, behaviors and lifestyles to enable poverty reduction and a transition towards low-emissions production and consumption. Access to reliable, clean and cost-effective energy remains a key development imperative for DMCs. By 2014, there were still 421 million people in Asia and the Pacific without access to electricity, most of this population live in remote areas and islands. With business as usual solutions such as national grid extension, centralized power generation, low-efficiency end use devices, DMCs will not gain the capacity to use the latest technology to achieve universal energy access or will meet such goals with much higher emissions. Innovations within the energy sector and from other sectors (i.e., information and communication technology or electric vehicles) may provide new opportunities to meet DMC energy sector needs faster, in a decarbonized manner and potentially leap-frog former energy sector development pathways.</p> <p>Innovative technologies and business models are needed to facilitate and manage transitions, and at the same time infrastructure investments must be <i>future proofed</i> with respect to rapid technological evolution as well as climate change. However, many DMCs have limited experience determining benefits and risks associated with innovative energy technologies and business models, and therefore often default to conventional approaches. DMCs may be reluctant to embrace cutting-edge technologies, given the unclear benefits of their utilization, potential downside risks, limited resources available and real or perceived higher costs.</p>
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Impact	Access to reliable, low-carbon and cost-effective energy increased.
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Project Outcome

Description of Outcome	Use of sustainable innovative technologies in participating DMCs increased.
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Progress Toward Outcome	
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Implementation Progress

Description of Project Outputs	<p>Energy system scenarios and technology road maps produced</p> <p>City-, country-, and/or region- specific feasibility studies for pilots or investments produced</p> <p>Pilot testing of innovative technologies deployed</p> <p>4. Prefeasibility analysis for CCUS published</p> <p>5. Regional knowledge sharing and support of scale-up of innovative technologies and suitable business models disseminated</p>
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Status of Implementation Progress (Outputs, Activities, and Issues)	
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Geographical Location	Regional
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Summary of Environmental and Social Aspects

Environmental Aspects	
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Involuntary Resettlement	
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Indigenous Peoples	
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Stakeholder Communication, Participation, and Consultation

During Project Design	
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During Project Implementation	
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Responsible ADB Officer	Elzinga, David C.
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Responsible ADB Department	SDSC
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Responsible ADB Division	SDSC-ENE
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Executing Agencies	<p><i>Asian Development Bank</i></p> <p><i>6 ADB Avenue,</i></p> <p><i>Mandaluyong City 1550, Philippines</i></p>
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Timetable

Concept Clearance	31 Mar 2018
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Fact Finding	-
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MRM	-
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Approval	16 Oct 2018
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Last Review Mission

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Last PDS Update

19 Oct 2018

TA 0033-REG

Financing Plan/TA Utilization						Cumulative Disbursements		
ADB	Cofinancing	Counterpart				Total	Date	Amount
		Gov	Beneficiaries	Project Sponsor	Others			
1,000,000.00	5,600,000.00	0.00	0.00	0.00	0.00	6,600,000.00	-	0.00

Project Page <https://www.adb.org/projects/52041-001/main>

Request for Information <http://www.adb.org/forms/request-information-form?subject=52041-001>

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