



# Energy Sector Group

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# Energy Sector Operations **Guiding Principles**

Increased deployment of renewable energy and energy efficiency

Integration of advanced technologies, innovative business models, and financing instruments

Creating and enabling regulatory frameworks for effective market and sector development

## **GLOBAL CLIMATE GOALS**

SDG 7 (Universal Energy Access),  
Nationally Determined Contributions

## **SDG 7**

Universal Energy Access

## **ADB STRATEGY 2030**

(7 Operational Priorities)

# Energy Sector Contributions to S2030

## 7 Operational Priorities

Increased access to clean energy to meet basic needs, income generation through RE employment

OP 1: Addressing remaining poverty and reducing inequalities

Job creation and skills development for women in RE; productive use of women's time for income generation

OP2: Accelerating progress in gender equality

Climate change mitigation and adaptation, air quality improvement, energy water nexus

OP3: Tackling climate change, building disaster resilience

Supporting energy smart buildings, electric vehicles, microgrids, waste-to-energy, and demand-side energy efficiency

OP4: Making cities more livable

Distributed renewable energy applications in irrigation and agriculture (e.g. solar pumping), biomass-to-energy

OP5: Promoting rural development and food security

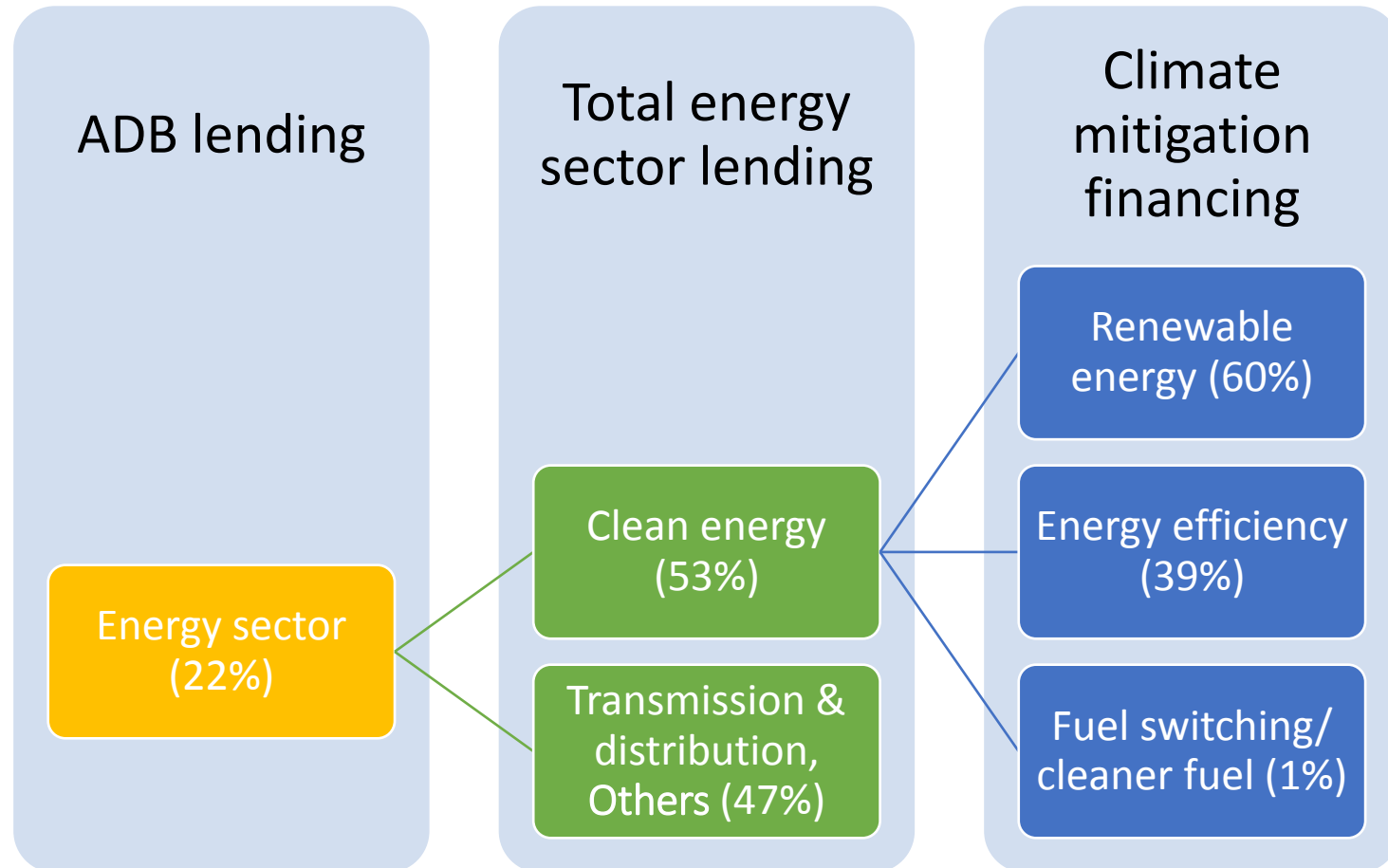
Promoting energy sector reforms and enabling clean energy development

OP 6: Strengthening governance and institutional capacity

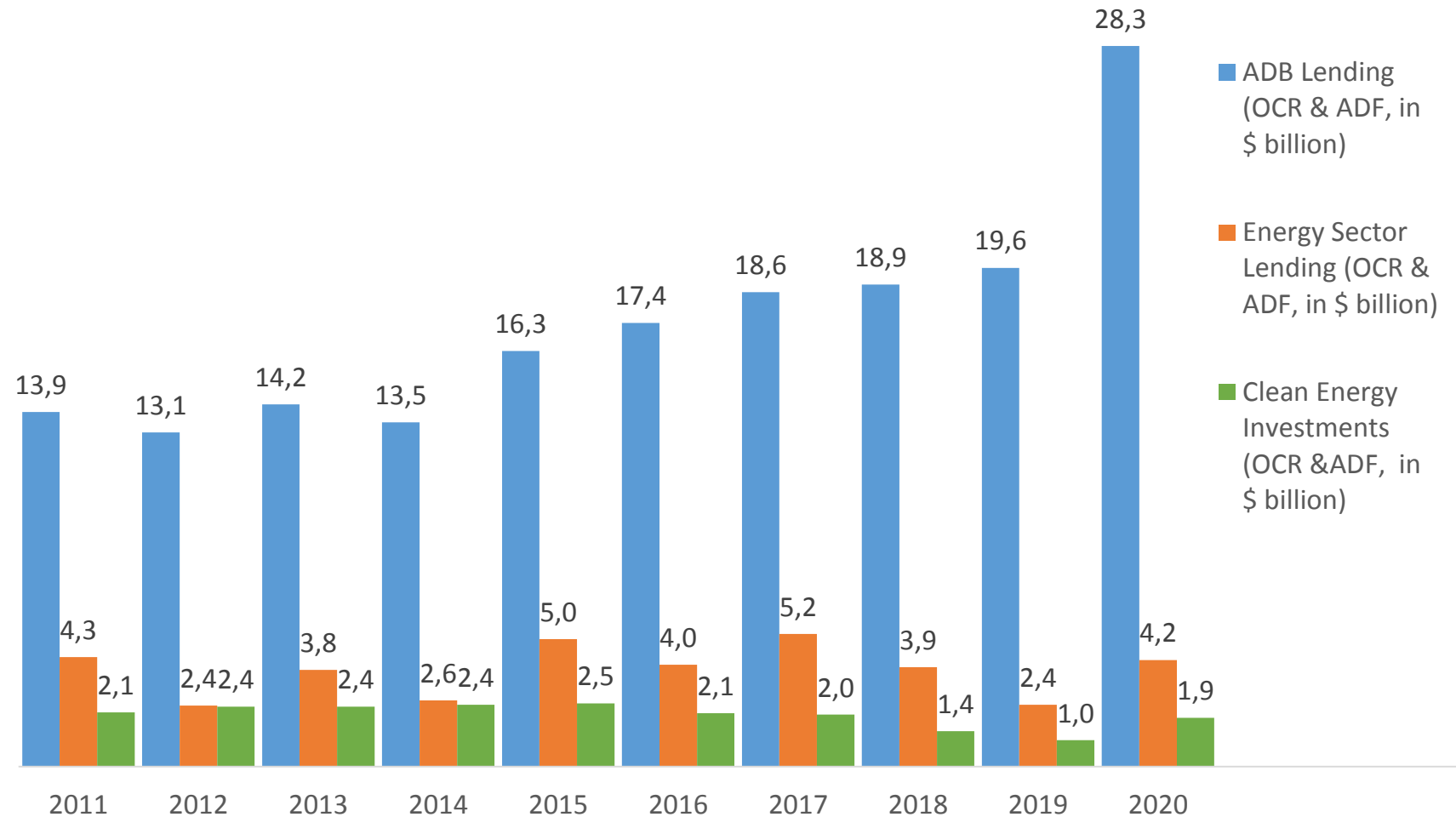
Promoting energy connectivity, cross-border clean energy trade, and knowledge exchange

OP 7: Fostering regional cooperation and integration

# Energy Sector Lending, 2011–2020 (annual average share)



# ADB Lending, Energy Sector Lending and Clean Energy Investments

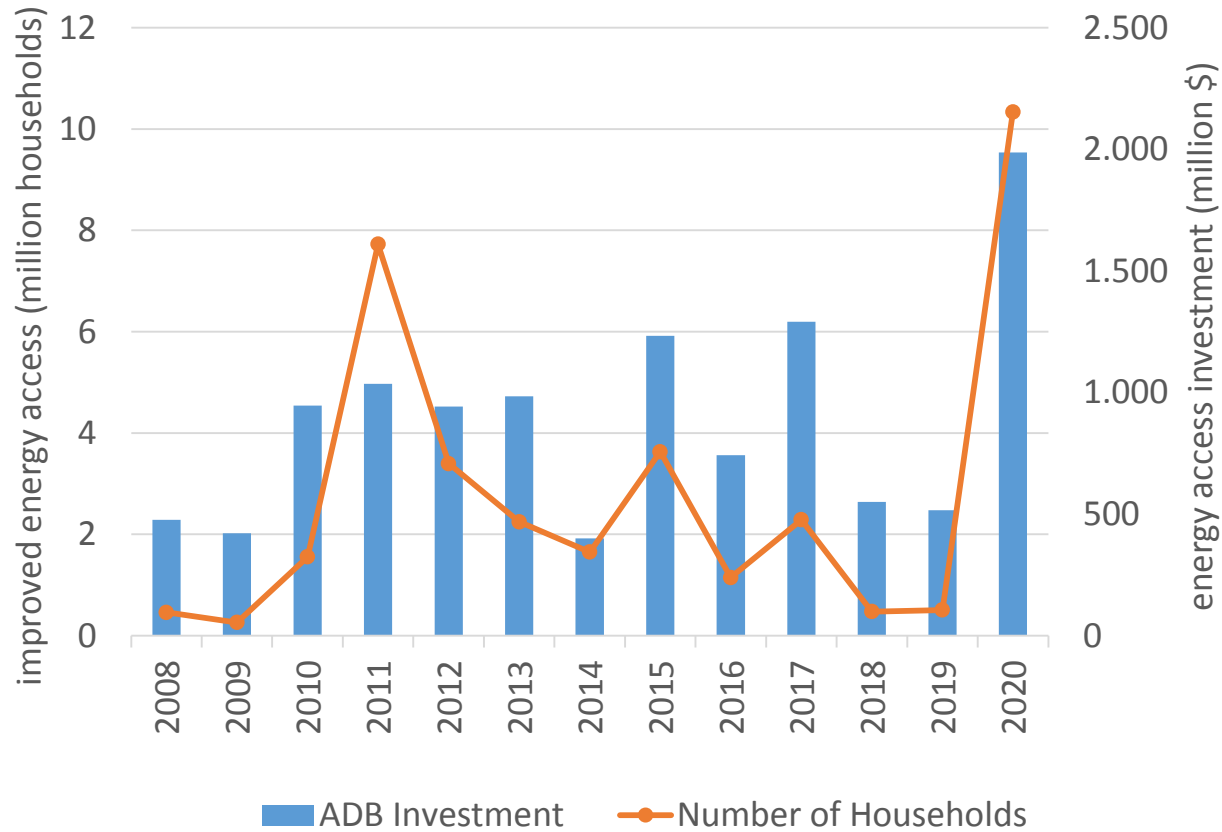


# Energy Sector Lending by Sub-Region in 2020

## (\$ millions)

	Central and West Asia	East Asia	Pacific	South Asia	Southeast Asia	Private Sector	TOTAL
Climate Finance	174	264	6	839	443	272	1,997
- Mitigation	161	264	6	794	424	269	1,917
- Adaptation	13	0	0	44	19	4	80
T & D, Others	277	186	7	838	756	119	2,184
<b>Total</b>	<b>451</b>	<b>450</b>	<b>13</b>	<b>1,676</b>	<b>1,199</b>	<b>392</b>	<b>4,181</b>

# Outcomes from Operations: Progress in Energy Access



ADB has invested a total of **\$2.0 billion** in energy access in 2020, and \$10.3 billion cumulatively from 2008 to 2020

It provided energy access (electricity, clean cooking) to **10.3 million households** in 2020, and 35.6 million households cumulatively from 2008 to 2020

Transmission and distribution projects in Afghanistan, Bangladesh, India, Indonesia, Myanmar and Nepal contributed to this upsurge

# Outcomes from Operations:

## Climate Impact of Energy Projects

### Estimating greenhouse gas emission reduction

- 6.9 million tons of CO<sub>2</sub> equivalent per year—emission reduction (2020)

### Assessing climate change impact of projects

- 3.4 GW additional RE capacity installed (2020)
- 8.3 TWh/year RE electricity generation (2019)
- 1.1 TWh/year electricity savings (2019)



# ADB Energy Sector Knowledge Work

## Handbooks, Cases, Guide Notes

- Microgrids
- Smart Grids
- Waste-to-Energy
- Energy Storage
- Hydrogen
- Distributed Renewable Energy Solutions
- Energy Sector Perspective for the Reopening of the Economy (COVID-19)

## Technical Notes, Op-ed, Blogs

- No Place for “Dirty Energy” in ADB’s Climate Vision
- The Pandemic May Break Value Chains, But Solar Energy Can Still Shine
- Covid-19 is an Opportunity to Retool Health Sector's Energy Supply
- It’s Clean, Powerful And Available: Are You Ready For Hydrogen Energy?
- Artificial Intelligence and Human Education, Needed to Advance Energy Efficiency
- Managing Infectious Medical Waste During COVID-19 Pandemic

## Workshops, Forum, Collaborations

- Asia Clean Energy Forum
- Cooling, Heating, and Cooking Technologies and Business Models
- Green and Low-Carbon Hydrogen Energy
- Carbon Capture, Utilization, and Storage Technologies
- Collaborations with SEforALL and IEA

# COVID-19 Related Activities

Energy specialists mobilized across different departments to support the review of COVID-19 projects

A technical assistance was processed to Build Disease-Resilient and Energy Efficient Centralized Air-Conditioning Systems

A technical note on Managing Infectious Medical Waste during COVID-19 Pandemic

A guidance note on the energy sector perspective for the reopening of the economy

Blogs on the interface of COVID-19 and energy:

- Covid-19 is an Opportunity to Retool Health Sector's Energy Supply
- The Pandemic may Break Value Chains but Solar Power can Still Shine

## Projected Energy Sector Lending in 2021–2022

In 2020, energy sector lending is about \$4.2 billion

- 48% clean energy
- 52% transmission & distribution, others
- challenges due to COVID-19—resource allocation priorities of developing member countries, field work constraints

In 2021–2022, projected average energy sector lending is \$5 billion per year

- clean energy representing about 40–50% of the lending

# Energy Sector: The Way Forward

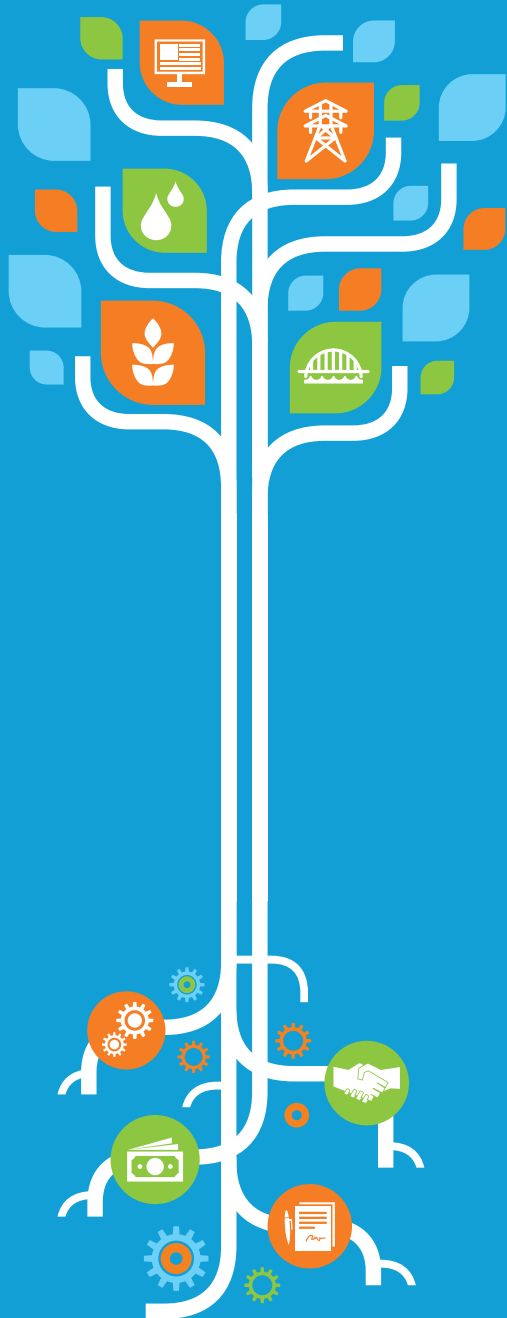
## Increase clean energy investments

- Help develop and demonstrate viability of new renewables beyond solar PV and onshore wind in ADB DMCs
- Develop projects with other sectors to reap scale and scope economies in energy efficiency

## Support for more flexible, resilient and smarter energy systems

- Support the deployment of ICT, digital applications, and energy storage in the T&D subsector

## Strengthen multi-sectoral approach



# Thank you!

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