

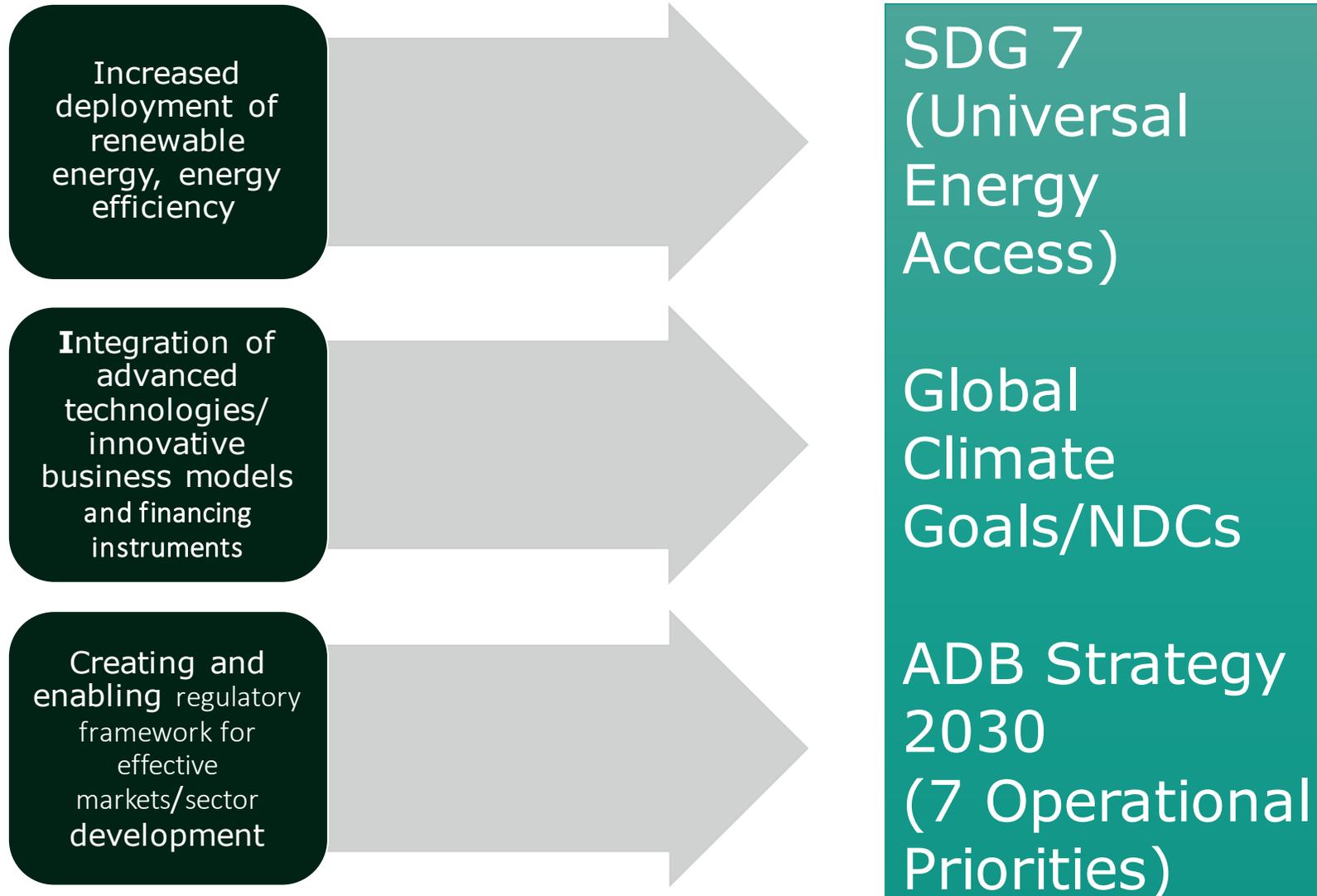


Energy Sector Group

27 July 2020

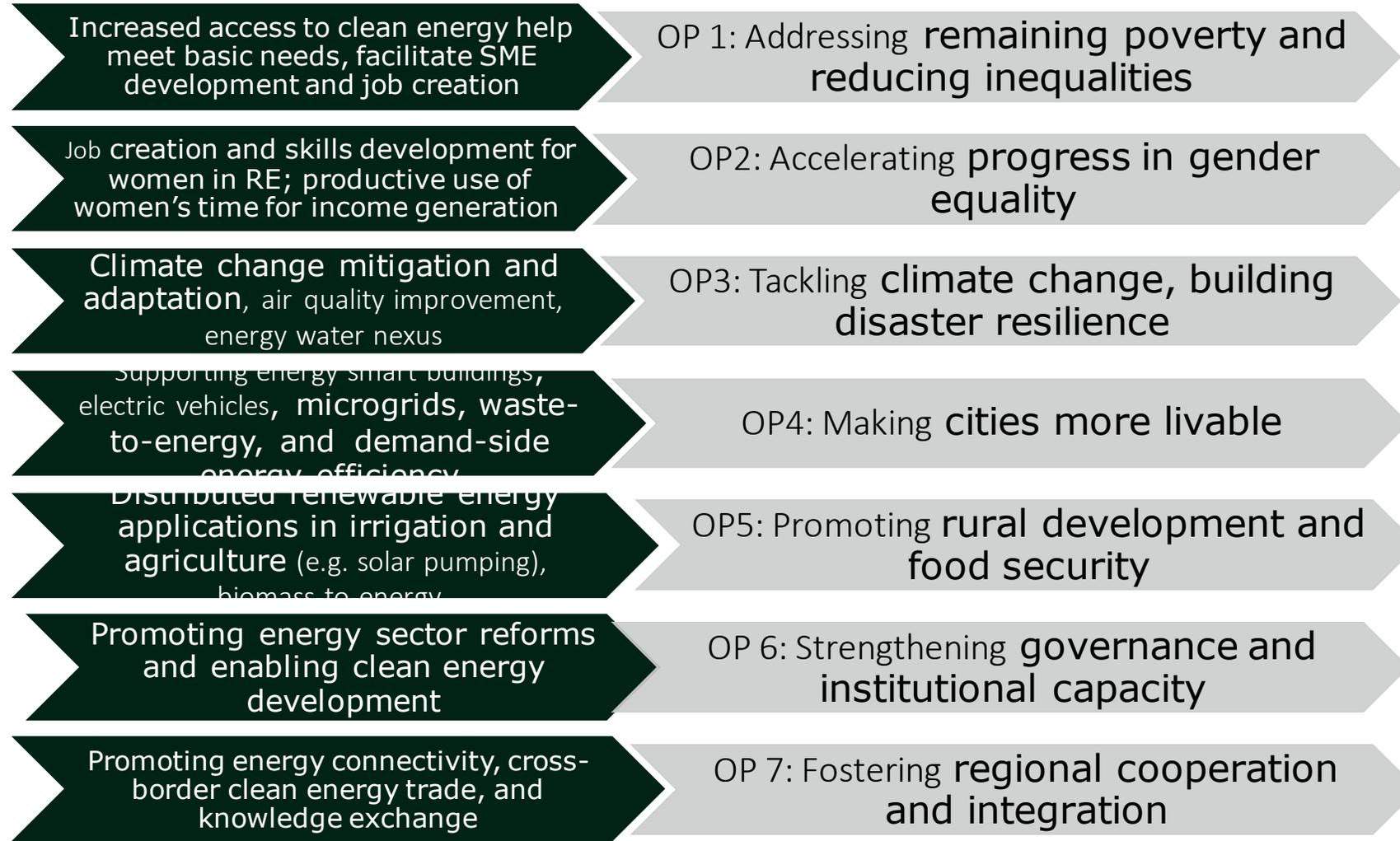


Energy Sector Operations Guiding Principles

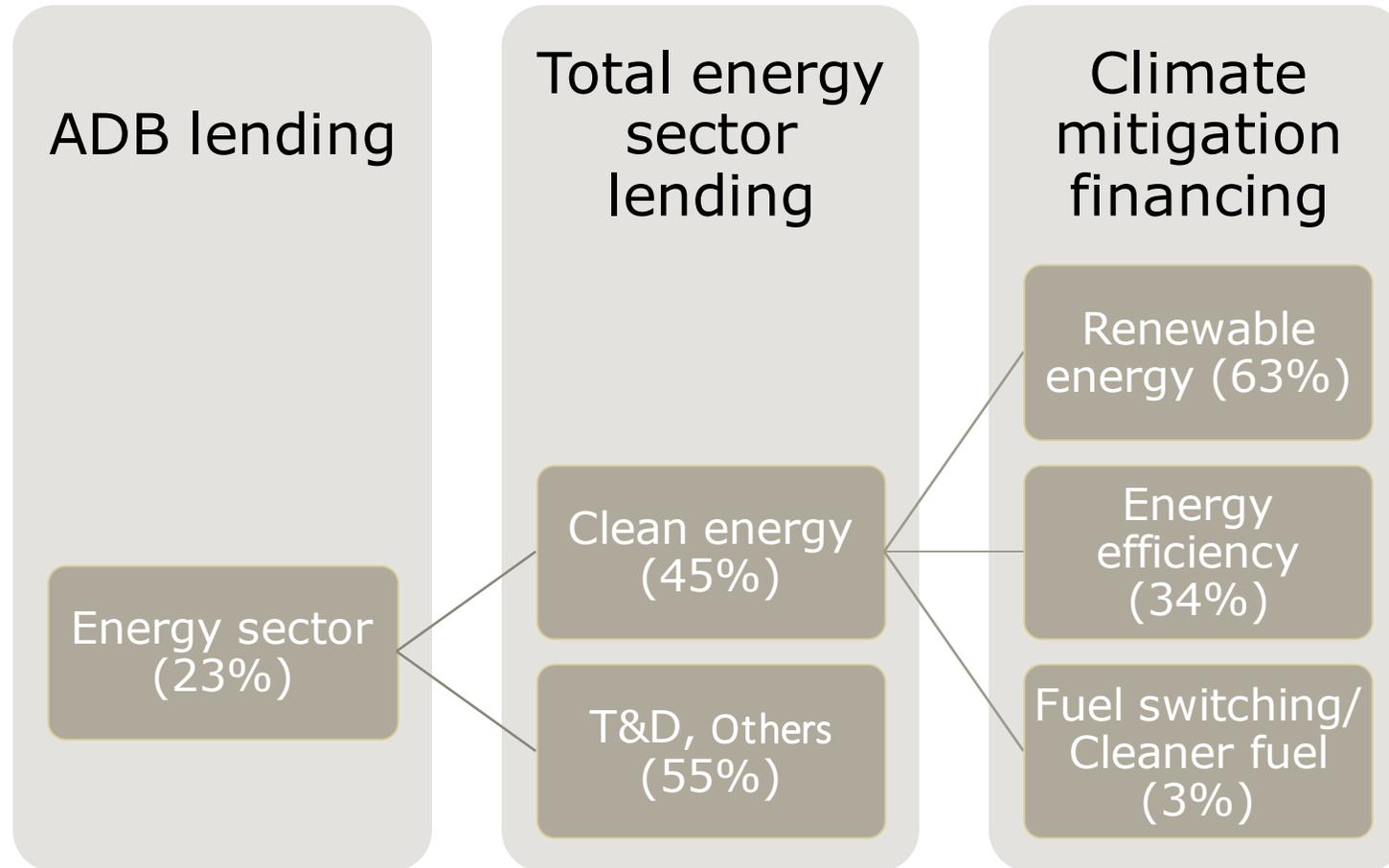


Energy Sector Contributions to S2030

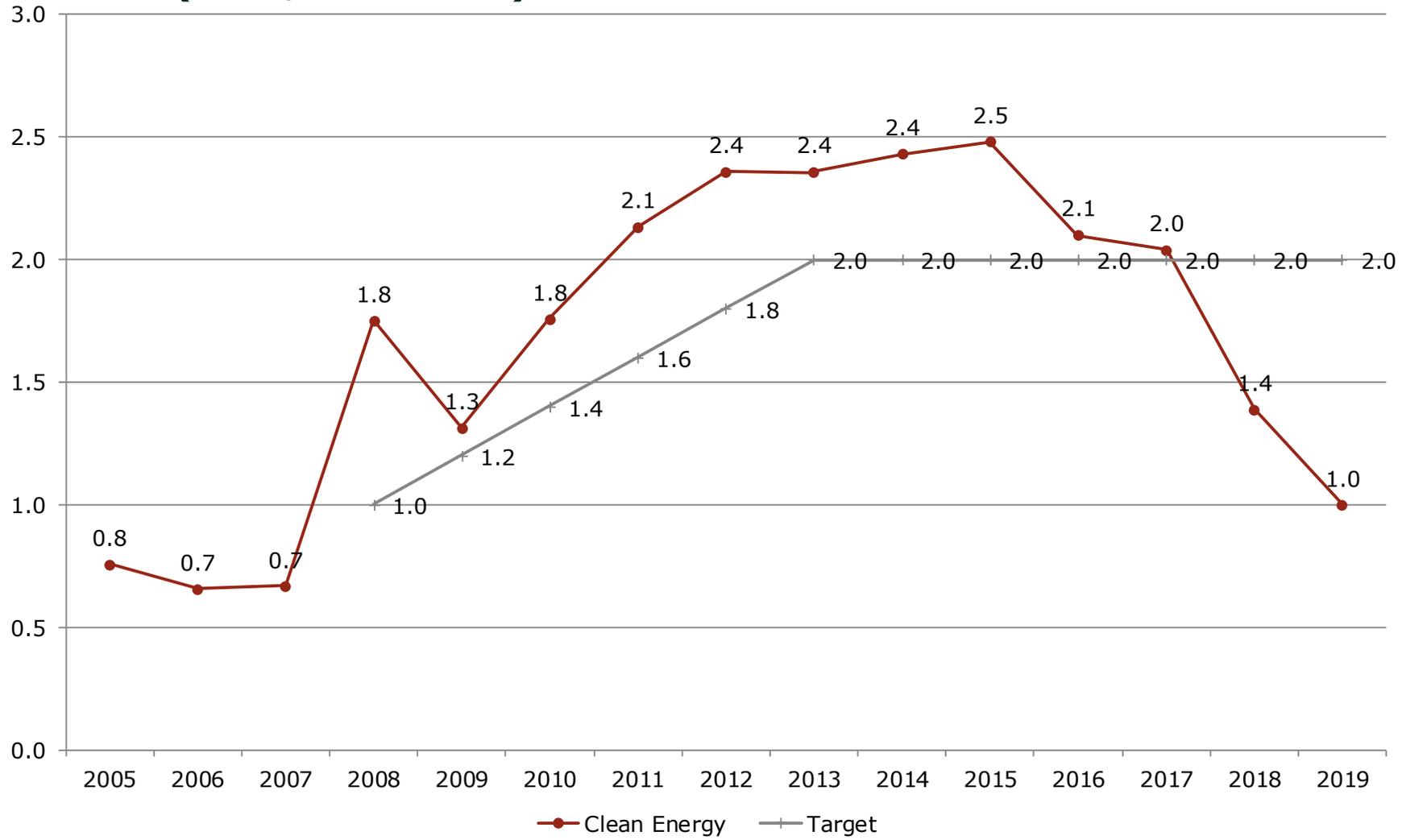
7 Operational Priorities



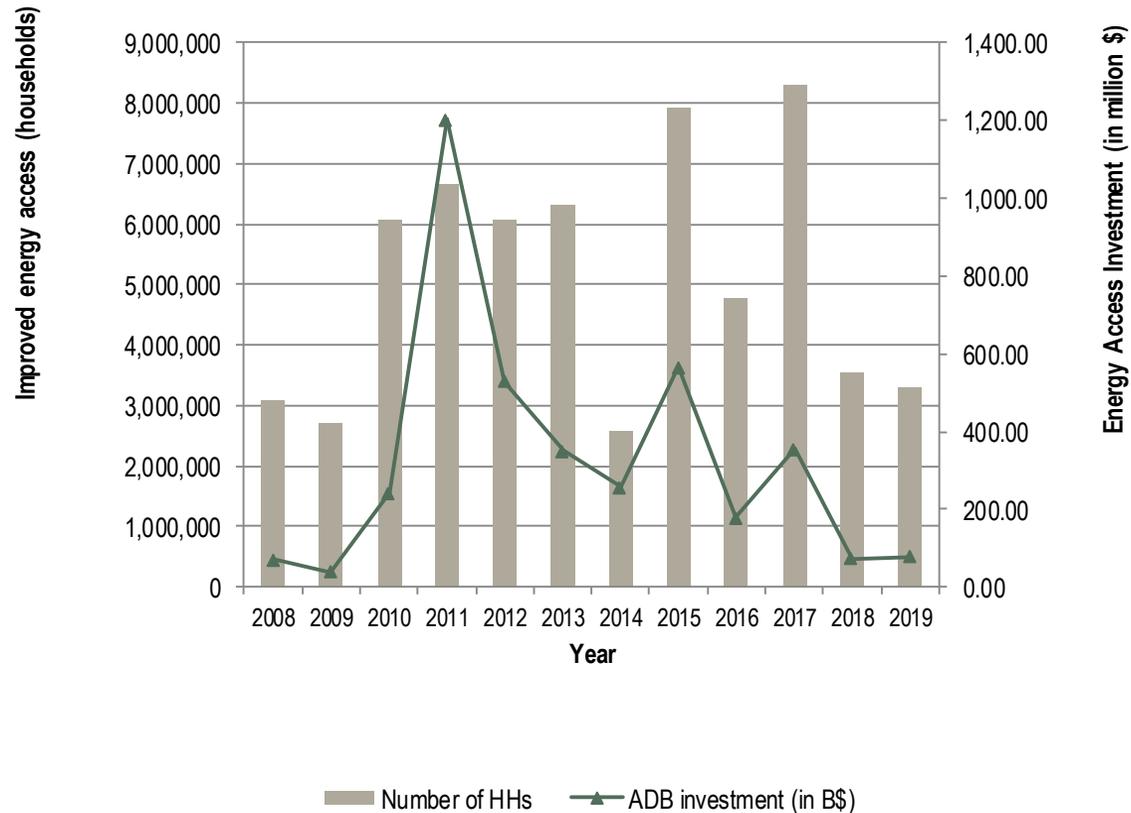
Energy sector lending, 2009-2019 (annual average share, in %)



Energy Sector Clean Energy Finance 2009-2019 (in \$ billion)



Outcomes from Operations: Progress in Energy Access



- ADB has invested a total of **\$ 9.5 billion** in energy access from 2008 to 2019
- And provided energy access (electricity, clean cooking) to **25 million** households cumulatively in the same period

Outcomes from Operations:

Progress in Clean Energy Indicators

Indicator	Unit	2011	2012	2013	2014	2015	2016	2017	2018	2019
Additional RE capacity installed	GW	0.9	2.5	1.4	2.1	0.6	2.1	1.6	0.6	4.0
CO₂ emission reduction	million tons/year-equivalent	13.7	16.0	7.1	9.0	21.8	13.5	11.8	10.7	6.7
Electricity savings	TWh/year	3.3	0.9	2.0	0.1	4.5	4.7	0.7	4.0	1.1
RE electricity generation	TWh/year	3.3	4.9	5.2	5.9	1.5	4.6	4.8	2.4	8.3

Energy Sector Lending in 2019

- Total approvals in the Energy Sector in 2019 amounted to \$2.4 billion including \$ 0.40 billion from PSOD (17% of total energy sector lending)
- Total climate mitigation finance approved 2019 amounted \$1.0 billion including \$333.7 million from PSOD (or 32% of the total climate mitigation finance)
- Transmission and distribution projects without energy efficiency improvement and fossil fuel-based projects are not considered climate

Amount	CWRD	EARD	PARD	PSOD	SARD	SERD	Total
Total	460.0	460.0	85.2	403.7	1,001.0	7.6	2,417.5
Climate Finance	200.0	87.3	85.2	333.7	452.6	7.6	1,166.4
- Mitigation	189.8	78.4	77.6	333.7	357.4	6.5	1,043.4
- Adaptation	10.2	8.9	7.6	0.0	95.2	1.2	123.0
T & D, Others	260.0	372.7	0.0	70.0	548.4	0.0	1,251.1

Contributions to S2030

Number of projects by Operational Priority tagged

S2030 Operational Priority	Number of projects
Addressing remaining poverty and reducing inequalities	8
Accelerating progress in gender equality	9
Tackling climate change, building disaster resilience	24
Making cities more livable	3
Promoting rural development and food security	1
Strengthening governance and institutional capacity	8
Fostering regional cooperation and integration	4

Key achievements in 2019

Strategic Operational Support

- **Technical enhancement in projects**
 - 27 project concept papers reviewed from sovereign and non-sovereign operations
 - 38 RRP's from sovereign and non-sovereign operations reviewed
 - Deployment of experts in project teams
- **Adoption of advanced technologies**
 - On-grid floating solar PV
 - Utility-scale battery energy storage system and energy management system
 - Smart metering for demand-side management
 - Distributed renewable energy generation
 - Fuel switching from coal to natural gas

Key achievements in 2019

Strategic Operational Support

- **Leveraging clean energy investments**
 - Allocated \$5.7 million of Clean Energy Financing Partnership Facility (CEFPF) funding to support 11 clean energy projects
 - Leverage ratio increased from 1:26 in 2018 to 1:31 in 2019

**\$5.7 million
(11 projects)**

- 0.9 million tCO₂-eq/year emission reduction
- 289 MW renewable energy capacity installed
- 1.1 TWh/year renewable energy generation

Key achievements in 2019

Knowledge management and sharing

- 14th Asia Clean Energy Forum
 - Gathered more than 1,600 participants from across the globe
 - Integrated cross-sectoral and cross-thematic tracks for the first time to align with S2030
 - Increased number of women in different discussion panels
 - Sustained the following sub-events
 - ADB Clean Energy Day for ADB staff
 - Dimsum with Entrepreneurs
 - ADB on-the ground
- Opinion-editorials on:
 - “How to mobilize \$1 trillion for 1 trillion watts of solar power”
 - “It’s clean, powerful and available: Are you ready for hydrogen energy?”
 - “Artificial intelligence and human education, needed to advance energy efficiency”
 - “Global renewable energy investment is slowing down – should we worry”

Key achievements in 2019

Knowledge management and sharing

- Knowledge products
 - Guidebook for deploying distributed renewable energy systems – a case study on the Cobrador hybrid solar PV mini-grid
- Knowledge partnerships
 - MOU with the Korean Energy Agency for the continued cooperation in clean energy
 - Cooperation Arrangement with REN21 for the joint publication of the *Asia Pacific Renewable Energy Status Report*
- Sector Skills Development Program
 - Regional Workshop on High-Level Technology (Tokyo, JAP)
 - 14th Asia Solar Energy Forum (Manila, PHI)
 - Asia Pacific Forum on Low-Carbon Technology (Changsha, PRC)
 - Estimating Greenhouse Gas Emission Reduction Training (Manila, PHI)
 - Economic Analysis of Energy Projects (Manila, PHI)

The way forward for the energy sector

- 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 ADB developing member countries in transforming their energy systems to be more flexible, resilient and smarter
 - Support the deployment of **ICT, digital applications, and energy storage** in the T&D subsector
- Strengthening Multi-sectoral Approach



Thank you.

