

EMERGING AREAS KNOWLEDGE SHARING SERIES



UPCOMING WEBINARS

- Earth Observation Satellites for Smart Grid and Cleaner Planet
- GIS and Digital Tools for Climate Risk Assessment
- Integrated Assessment Modelling
- Climate Risk and Economic Valuation of Assets
- Sustainable Aviation Fuels
- Hard to Abate Sector Decarbonization

PAST WEBINARS

- Emerging Net Zero Technologies: Spotlight on CCS
- Sun-Powered Futures: Unveiling the Potential of Integrated Solar Technologies
- Space Technology for Energy and Cross-Sector Innovation: Transforming Asia and the Pacific Region
- Digital, Data Science, AI: Operationalizing Innovations in/for the Power and Energy Sector
- Marine Renewable Energy and Blue Economy
- 3D Clay Reef Systems: An Innovative Approach to Structural Enhancement and Habitat Rehabilitation
- Regional Procurement
- Investing in Blue Natural Capital

WE WOULD LOVE TO HEAR FROM YOU

Are you working on frontier technologies and nature-based solutions? Are you aiming to build a sustainable and resilient energy future to maximize development impact? Are you open to collaborating with other partners to drive cross-sectoral innovations and play a key role in confronting the climate change challenge? Would you be interested to showcase your research work on the EA knowledge sharing series platform?

For more information, contact:
Emerging Areas, Energy Sector
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www.adb.org

SCAN TO LEARN MORE



EA at DEVASIA



ADB.org

EMERGING AREAS

Asian Development Bank

ADB is a leading multilateral development bank supporting inclusive, resilient, and sustainable growth across Asia and the Pacific. Working with its members and partners to solve complex challenges together, ADB harnesses innovative financial tools and strategic partnerships to transform lives, build quality infrastructure, and safeguard our planet. Founded in 1966, ADB is owned by 69 members—50 from the region.

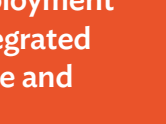
Solving Complex
Challenges Together

ENERGY SECTOR

EMERGING AREAS



Accelerating the adoption and deployment of low-carbon cross-sectoral integrated solutions for improved resilience and sustainable development



WHO WE ARE

The **Emerging Areas (EA) team**, under ADB's **Energy Sector Office**, aims to deploy sustainable solutions in response to the needs and challenges of ADB's Developing Member Countries (DMCs), using the most appropriate resources and approaches. We aspire to be **agile, cross-sectoral, and cross-functional** in our collaborations, enabling rapid and effective responses to emerging opportunities.

We strive to play an important role in **advancing innovative energy solutions and supporting just, low-carbon transitions** through **frontier and disruptive technologies**. We also aim to contribute to global efforts to mitigate the **environmental and climate impacts of energy use**, while improving the lives of vulnerable communities across the region.

With multidisciplinary expertise, adaptability, and a commitment to thought leadership, continuous learning, and scenario-based planning, we are committed to deliver **integrated solutions—including digital tools and AI**—to strengthen resilience and help future-proof societies.

OUR JOURNEY

- Addressing key challenges of energy access, energy security, environmental sustainability, and sector governance with agility
- Operationalizing frontier technologies and integrated solutions
- Fostering and driving innovation in policy and operational issues
- Thought leadership and future-looking bank wide initiatives for future business
- Collaborating across departments for innovative solutions
- Identifying and developing knowledge and flagship events
- Mobilizing external cofinancing

**EMERGING AREAS:
APPROACHING THE FUTURE WITH
INNOVATIVE TECHNOLOGIES,
NATURE-BASED SOLUTIONS, AI,
AND DIGITAL TRANSFORMATION**

PIPELINE OF PROJECTS



Floating solar, offshore wind, other land-based and marine renewable energy, reefs, and ecotourism for ecosystem services



Accelerating deployment of smart energy systems and grid integration infrastructure



Developing climate-informed SOE corporate reforms in Asia and Pacific DMCs



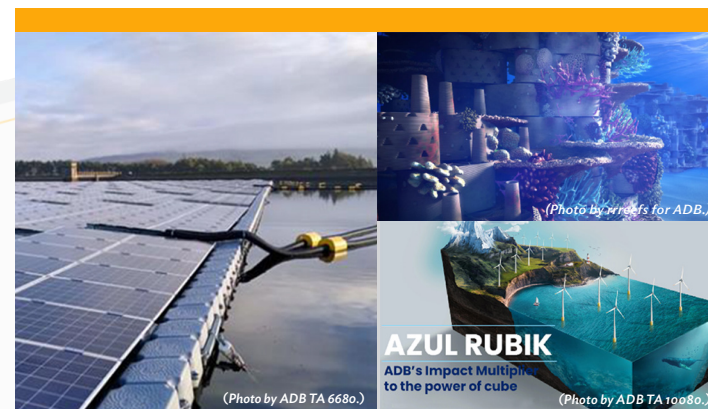
Integrating Innovative Grid Control Technology to Scale up Renewable Energy



Accelerating battery energy storage system development in the Asia and the Pacific



Enhancing Power Sector for Fiscal Sustainability



- Floating photovoltaic (FPV) and productive uses of energy (PUEs) are transformational technologies for energy and climate resilience that have financial benefits and economic growth opportunities.
- Combining nature-based solutions with clean energy systems such as 3D-printed clay reef structures with FPV can drive climate action and support marine sustainability.
- Project Azul Rubik enables cross-sectoral solutions by helping ADB deploy funds more systematically and effectively to support its DMCs in responding to the impacts of climate change.

CORE THEMES



Circular Economy



Energy Storage Solutions



Climate Finance SOEs & Regulatory Reforms



Marine Renewables



Digital Transformation & AI



Power-to-X