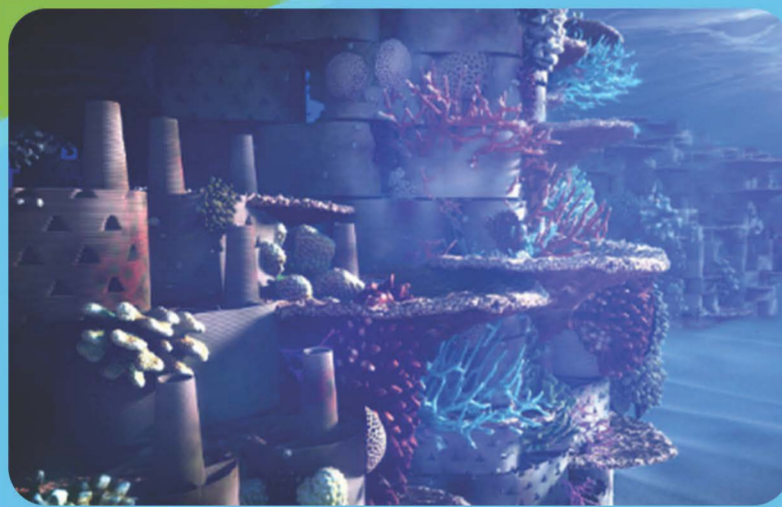


# MERGING AREAS

APPROACHING THE FUTURE WITH INNOVATIVE TECHNOLOGIES, NATURE-BASED SOLUTIONS, AI & DIGITAL TRANSFORMATION



**Floating photovoltaic (FPV)** and **productive uses of energy (PUEs)** are transformational technologies for energy and climate resilience with financial benefits and economic growth opportunities (Photo: [ADB TA 6680](#))



Combining nature-based solutions with clean energy systems such as **3d-printed clay reef structures with FPV** for climate action and sustainable marine life (Photo: [rrreefs](#))



## AZUL RUBIK

ADB'S Impact Multiplier to the power of cube

Project **Azul Rubik** enables **multi-sector solutions** by helping the ADB deploy funds in a more systematic and effective way to support its Developing Member Countries in responding to the impacts of climate change. (Photo: [ADB TA 10080](#))



## WHO WE ARE

The  team aims to deploy **sustainable solutions** in response to ADB Developing Member Countries' **needs** and **challenges** using the most **appropriate resources and approach**. We aspire to be **agile, cross-sectoral** and **cross-functional** in our **collaborations**, and enable **rapid** and **effective** responses to **emerging opportunities**.

We play a substantial role in delivering **innovative energy solutions**, supporting **just low-carbon transitions** using **frontier** and **disruptive technologies**, contributing to global efforts to address the **impact** of energy use on climate and environment and **improving** the **lives** of vulnerable communities throughout the region.

We have **multidisciplinary** expertise and adaptability, coupled with a commitment to **thought-leadership, continuous learning** and scenario-based preparation. We implement **integrated solutions** including but not limited to, digital tools and AI, to stay ready for special and high-stakes situations and demands to improve **resilience** and **future-proofing** of society.

For more information, contact:

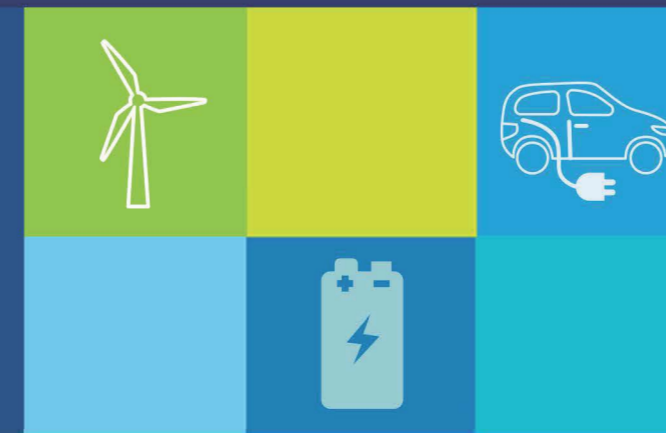
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ASIAN DEVELOPMENT BANK

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Mandaluyong City, Philippines



# MERGING AREAS

– ENERGY SECTOR

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



# 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

## PIPELINE OF PROJECTS

-  Floating solar, off-shore wind, marine aquaculture, reefs, renewable energy, 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
-  Integration of Innovative Grid Control Technology to Scale up Renewable Energy
-  Accelerating battery energy storage system development in the Asia and Pacific Region
-  Power Sector Enhancement for Fiscal Sustainability

# CORE THEMES

## ENERGY STORAGE SOLUTIONS



## POWER-TO-X



## MARINE RENEWABLES

## CLIMATE FINANCE SOES & REGULATORY REFORMS



## AI & DIGITAL TRANSFORMATION

## CIRCULAR ECONOMY




## MERGING AREAS KNOWLEDGE SHARING SERIES

### RECENT EVENTS

- July 2024:**  
Blue Natural Capital (Blue Green Future)
- August 2024:**  
Regional Procurement (OCA Global)
- September 2024:**  
3D Clay Reef Systems (rrreefs)

### UPCOMING EVENTS

- **November 2024:** MRE & Blue Economy (HR Wallingford, Mocean, University of Edinburgh, NLAI, OceanPixel)
- Sustainable Aviation Fuels
- GIS and Digital Tools for Climate Risk Assessment
- Integrated Assessment Modelling
- Climate Risk & Economic Valuation of Assets
- Data Science & AI in Power and Industries
- Risk, Resilience, Net Zero and Nature
- Hard to Abate Sector Decarbonization
- Carbon Capture, Utilization, and Storage
- Frontier and Disruptive Technologies

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 multi-sectoral innovations and play a key role in confronting the climate change challenge? Would you be interested to showcase your research work on the  **knowledge sharing series platform**?

We would love to hear from you.

**Contact:** Cindy Cisneros Tiangco, Director, Emerging Areas Energy Sector Office, ADB | [ctiangco@adb.org](mailto:ctiangco@adb.org)