

Energy Sector Innovation in ADB DMCs

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Topics

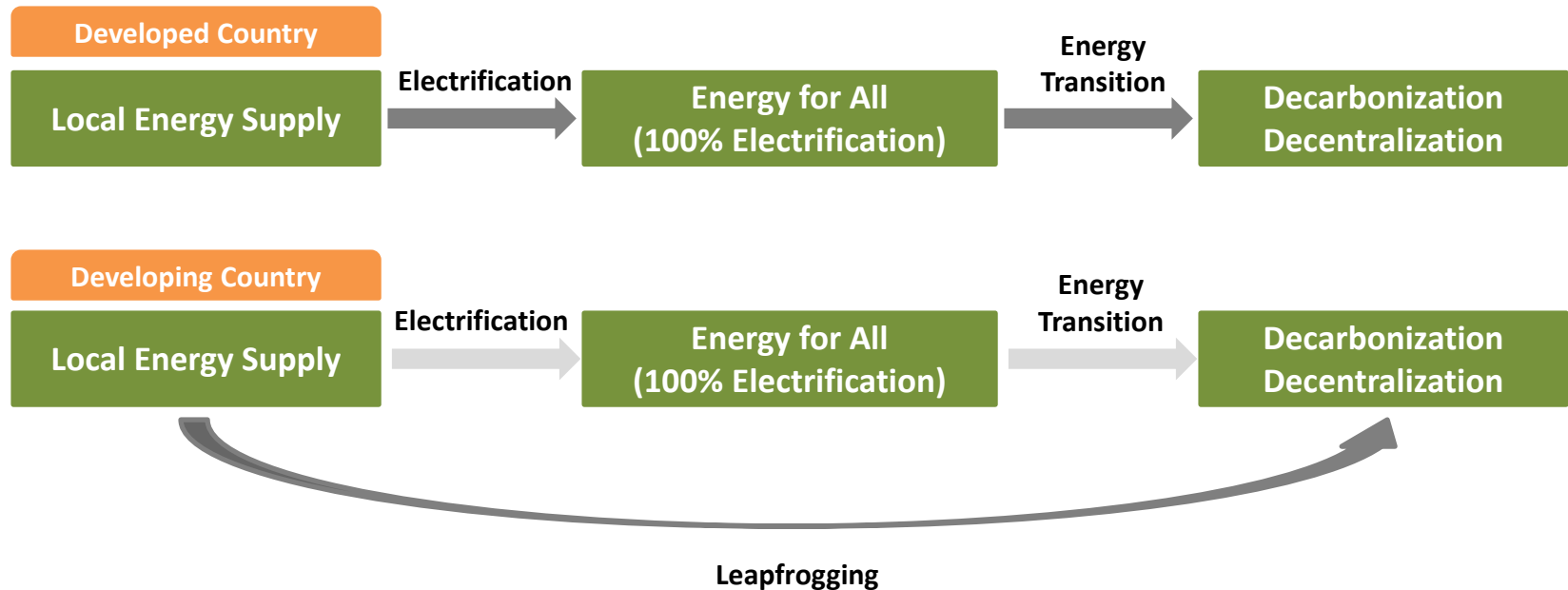
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ADB Energy Policy

- **Prioritizes sustainable energy and low-carbon development:**
 - Promoting energy efficiency and renewable energy
 - Maximizing access to energy
 - Promoting energy sector reform, capacity building and good governance
- **Comprehensive and accommodates global developments in climate and energy sectors, notably:**
 - Paris Agreement on Climate Change
 - UN Sustainable Development Goals
- **It is relevant and flexible enough to allow ADB to respond to diverse needs of our DMCs**

Energy Transition

- Energy transition is generally defined as a long-term structural change in energy systems



Modified the image from Reiner Lemoine Institute by DK

Contribution to DMCs

- ADB supports policy evolution, technology transfer, and provide financial assistance to make the transition to advanced clean energy systems.
- ADB encourages innovative technology in every energy project and it supports and ensures that the best-in-class approaches are used.
- ADB creates a fund to support greater deployment of advanced technologies.

High-Level Technology Fund

- Donors: Japan (\$40 million during 2017-2018)
- The High-Level Technology Fund will provide grants for technical assistance, pilot projects, investment support, capacity building, and recruitment of technology experts to promote the integration of advanced and innovative solutions.
- The fund is intended to encourage and accelerate more widespread adoption of advanced technologies to address development challenges in DMCs.
- By the end of December 2017, we expect to commit \$16 million, and disburse \$1.7 million from the HLT fund.

Examples of ADB Support

- High voltage transmission expansion and upgrades in India specifically to integrate several gigawatts of new solar and wind power
- Energy storage to facilitate 100% renewable electricity in Cook Islands
- Smart grid technology in the distribution network in the Kathmandu Valley of Nepal

Three Main Challenges

- How do plan and deploy energy assets with design lifetime of 20-40 years in the context of ongoing development and rapid technological changes?
- How to utilize limited financial resources to manage potential risks associated with leading edge technologies?
- How to countries adopt and integrate new approaches requiring advanced capabilities that may not be available in their own country?

Summary

- **The energy technology landscape will continue to change.**
- **ADB will be an active partner with its DMCs to manage this change and use it as an opportunity to accelerate sustainable development.**
- **Innovative technology can help meet a country's development objectives, but only when well-defined and desired objectives and outcomes are clearly articulated.**

Thank you