

# The importance of Quality Infrastructure to Support Financing of PV projects

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# Outline

- Quality Infrastructure
- Quality Solar PV
- ADB ESG operations
- ADB Strategy 2030

# Quality Infrastructure

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## The Role and Impact of Infrastructure in Middle-Income Countries: Anything Special?

ADB ASIAN DEVELOPMENT BANK

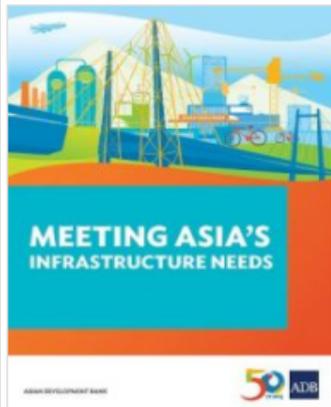
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## Meeting Asia's Infrastructure Needs

Publication | February 2017 日本語



**This report examines developing Asia's infrastructure—defined as transport, power, telecommunications, water supply and sanitation. It looks at the region's investments in infrastructure, and what will be needed through 2030.**

[View on the Data Library >>](#)

Developing Asia will need to invest \$1.7 trillion per year in infrastructure until 2030 to maintain its growth momentum, tackle poverty, and respond to climate change. The report examines how much the region has been investing in infrastructure and what will likely be needed through 2030. It also analyzes the challenges

shaping future infrastructure investment and development.

examines the evolution of infrastructure, and the infrastructure investment, in middle-income countries.

finds that the provision of infrastructure varies across stages of development and growth performance. Basic infrastructure, such as transport, water, and sanitation, are more important during early stages of development, while advanced infrastructure, such as power and specially information and communication technology, become more important during later



# Quality Infrastructure

- Ensuring alignment with development strategies
- Application of high-quality standards
- Ensuring the quality of infrastructure
  - ✓ Economic efficiency
  - ✓ Inclusiveness
  - ✓ Safety and resilience
  - ✓ Sustainability
  - ✓ Convenience and amenities
  - ✓ Contribution to the society and economy

# Quality Solar PV



# Quality Solar PV

Component Design Installation Operation

**Risk**

*Accreditation*

*Certification*

*Standardization*

*Inspection*

*Services (Insurance, Warranty, etc.)*

# ADB Energy Sector Operations

- ADB Energy policy; 3 Pillars
  - Promoting energy efficiency and renewable energy
  - Maximizing access to energy
  - Promoting energy sector reform, capacity building and good governance
- Climate Financing; provide USD 3 billion per year by 2020 for clean energy
- Technical assistances (TA);
  - Floating solar, Solar-based micro/mini grids, etc.
- Fund mobilization
- Partnership

# Technology Perspective



- Hybrid System
- Microgrids 
- Efficient Generation
- Advanced T&D
- Energy Efficiency

- Networked Microgrids
- Energy Management System
- Distributed Energy Resources
- Direct Current System 
- Energy Efficiency
- Demand Response



*Data Analysis*

*Blockchain*

*IoT*

*Vehicle to Grid*

*Prosumers*



*Aggregators*

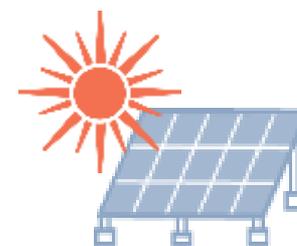
# Contribution to ADB Strategy 2030

## 7 Operational Priorities



*Cross-Sectorial  
Collaboration*

*Energy Sector G*



# Thank you!

