

# **APAC Microgrid Market - Analysis & Forecast (2017-2026) Focus on Technology Type: Energy Generation (Solar PV, Wind Turbine, Diesel Gensets) & Energy Storage (Lithium Ion Batteries, Lead Acid Batteries), Application: Residential & Commercial**

<https://marketpublishers.com/r/AD9E4EE6E36BEN.html>

Date: January 2018

Pages: 199

Price: US\$ 4,199.00 (Single User License)

ID: AD9E4EE6E36BEN

## **Abstracts**

Hard copy option is available on any of the options above at an additional charge of \$500. Please email us at [order@marketpublishers.com](mailto:order@marketpublishers.com) with your request.

Asia Pacific is experiencing high rate of rural electrification in several economies such as India, Malaysia, and Philippines, among others. Several factors such as demographics of the countries, high number of islands in Indonesia and Philippines, and lack of proper infrastructure in the emerging economies contribute to the high rates of unelectrified areas in Asia Pacific. Electricity is an important contributor to the GDP of any country, and with the emerging economies growing rapidly, they need to invest in solutions which can help them achieve 100% electrification rates. Owing to this, most of the Asian countries have laid down regulations to achieve 100% electrification rates in their respective countries. Moreover, in developed economies such as China, Japan, and Singapore, the focus is on ensuring energy security.

To ensure energy security, countries have developed national smart grid plans, and have promoted the use of renewable energy generation sources in their energy mix. This has compelled the several countries to look for viable options which can ensure energy security, reduce greenhouse gas emissions, and provide electricity. This has led to increased investments by utility providers, manufacturers providing solutions to the utility industry, and several other companies promoting the employment of microgrids across APAC.

The report titled “APAC Microgrid Market” provides an in-depth analysis of the key development strategies and market trend dynamics which includes drivers, challenges, and opportunities prevailing in the industry. Moreover, value chain analysis, consortiums, and patents have also been included in the report. The key development strategies adopted by microgrid solution providers have also been included in the report. The key regulations with respect to the utility industry, rural electrification policies, and renewable energy policies have also been considered in the report because of the compliance requirements which are expected to promote the use of microgrids in APAC.

The adoption and implementation of microgrids in the APAC region is at a nascent stage. The companies have been investing extensively in the microgrids development and demonstration projects. However, it has been witnessed that the demonstration projects do not have a business model. Therefore, the market estimation has been built on detailed assumptions and limitations. The market has been estimated on the basis of different types of energy generation and energy storage solutions used in microgrids, their use across different applications, and geographical analysis.

The report profiles 13 organizations across Asia Pacific on the basis of manufacturers, and solution providers working across the microgrid industry, and providing their products in APAC.

Key questions answered in the report:

What was the size, in terms of revenue, of the APAC microgrid market in 2016, and growth rate during the forecast period, 2016-2026?

What are different types of energy generation and energy storage technologies used in APAC microgrid market, and their sub segments?

What was the market value of energy generation and storage technologies for different applications of microgrids in 2016, on the basis of rural and commercial/industrial?

What is the market size of microgrid solutions on the basis of different major countries in the region?

What are the key trend and opportunities in the APAC microgrid market?

What are the major driving forces that are expected to increase the demand of microgrid solutions during the forecast period?

What are the major challenges inhibiting the growth of the APAC microgrid market?

Who are the major investors investing in the development of microgrids across the different countries of APAC and what is the investment amount?

What kind of new strategies are being adopted by the existing market players to make a mark in the industry?

Which country has growth prospects where investors can invest, and make significant profitable margins?

Which regions in the countries such as India, and Indonesia, among others, are most suited for the development of microgrid projects?

Which country has formulated regulations and a comparison chart of their regulations based on different parameters?

Who are the key market players in the market, along with company profiles, their business financials, company snapshots, key products & services, major developments, SWOT analysis, and future programs (if any)?

The report puts special emphasis on the market share of the leading companies in the APAC microgrid market, owing to the changing paradigms in the industry. The report further includes a thorough analysis of the impact of the Porter's five major forces to understand the overall attractiveness of the industry. The report also focuses on the key developments and investments made in the APAC microgrid market by the major players. Further, the report includes an extensive analysis of the Microgrids market in the Asia-Pacific (APAC) countries including China, India, Japan, Indonesia, Philippines, and others. A detailed analysis of each country has been provided detailing the individual push and pull forces, in addition to the key players from that region.

## Contents

### EXECUTIVE SUMMARY

### 1 RESEARCH SCOPE AND METHODOLOGY

- 1.1 Scope of the Report
- 1.2 Asia Pacific Microgrid Market Research Methodology
  - 1.2.1 Primary Data Sources
  - 1.2.2 Secondary Data Sources
- 1.3 Assumptions and Limitations for Market Estimation and Forecasting
  - 1.3.1 Assumptions
  - 1.3.2 Limitations

### 2 MARKET DYNAMICS

- 2.1 Market Drivers
  - 2.1.1 Policy Mandates to Meet the Increasing Energy Demand
  - 2.1.2 Grid Reliability and Expansion Costs
  - 2.1.3 Decreasing Costs of Renewable Energy Generation and Storage Technologies
- 2.2 Market Challenges
  - 2.2.1 High Upfront Cost – A Major Financial Barrier
  - 2.2.2 Policy Uncertainty Related to Procedures
- 2.3 Market Opportunities
  - 2.3.1 Introduction of Next Generation Technologies in Microgrids

### 3 COMPETITIVE INSIGHTS

- 3.1 Key Market Strategies and Developments
  - 3.1.1 Mergers and Acquisitions
  - 3.1.2 Contracts, Collaborations, Partnerships, and Agreements
  - 3.1.3 Product Launches and Development
  - 3.1.4 Business Expansion
  - 3.1.5 Investments and Awards
- 3.2 Industry Attractiveness

### 4 INDUSTRY ANALYSIS

- 4.1 Opportunity Matrix

- 4.2 Regulatory Landscape
- 4.3 Regulatory Bodies/Acts
- 4.4 Associations/Consortiums/Alliances
- 4.5 Patent Analysis
- 4.6 Supply Chain Analysis

## **5 APAC MICROGRID MARKET, ANALYSIS & FORECAST (2016-2026)**

- 5.1 Assumptions and Limitations for Analysis and Forecast of the APAC Microgrid Market
- 5.2 Market Overview

## **6 ASIA PACIFIC MICROGRID MARKET BY TECHNOLOGY**

- 6.1 Energy Generation Technologies
  - 6.1.1 Energy Generation Microgrid Market by Type
  - 6.1.2 Energy Generation Microgrid Market by Application
  - 6.1.3 Energy Generation Microgrid Market by Country
- 6.2 Energy Storage Technologies
  - 6.2.1 Energy Storage Microgrid Market by Type
  - 6.2.2 Energy Storage Microgrid Market by Application
  - 6.2.3 Energy Storage Microgrid Market by Country

## **7 ASIA PACIFIC MICROGRID MARKET BY APPLICATION**

- 7.1 Rural/Residential Microgrid
  - 7.1.1 Residential Microgrid Market by Country
- 7.2 Commercial/Industrial Microgrid
  - 7.2.1 Commercial Microgrid Market by Country

## **8 ASIA PACIFIC MICROGRID MARKET BY COUNTRY**

- 8.1 China
  - 8.1.1 China Microgrid Market by Technology
  - 8.1.2 China Microgrid Market by Application
- 8.2 Japan
  - 8.2.1 Japan Microgrid Market by Technology
  - 8.2.2 Japan Microgrid Market by Application
- 8.3 India

- 8.3.1 India Microgrid Market by Technology
- 8.3.2 India Microgrid Market by Application
- 8.4 Australia
  - 8.4.1 Australia Microgrid Market by Technology
  - 8.4.2 Australia Microgrid Market by Application
- 8.5 Philippines
  - 8.5.1 Philippines Microgrid Market by Technology
  - 8.5.2 Philippines Microgrid Market by Application
- 8.6 Indonesia
  - 8.6.1 Indonesia Microgrid Market by Technology
  - 8.6.2 Indonesia Microgrid Market by Application
- 8.7 Rest of the APAC
  - 8.7.1 Rest of APAC Microgrid Market by Technology
  - 8.7.2 Rest of APAC Microgrid Market by Application

## **9 COMPANY PROFILES**

- 9.1 ABB Ltd.
  - 9.1.1 Company Overview
  - 9.1.2 Financials
    - 9.1.2.1 Financial Summary
  - 9.1.3 SWOT Analysis
- 9.2 APT Consulting Group Co. Ltd.
  - 9.2.1 Company Overview
  - 9.2.2 Corporate Summary
- 9.3 Fluidic Energy
  - 9.3.1 Company Overview
  - 9.3.2 Corporate Summary
- 9.4 General Electric Company
  - 9.4.1 Company Overview
  - 9.4.2 Financials
    - 9.4.2.1 Financial Summary
  - 9.4.3 SWOT Analysis
- 9.5 Hitachi
  - 9.5.1 Company Overview
  - 9.5.2 Financials
    - 9.5.2.1 Financial Summary
  - 9.5.3 SWOT Analysis
- 9.6 Honeywell International Inc.

- 9.6.1 Company Overview
- 9.6.2 Financials
  - 9.6.2.1 Financial Summary
- 9.6.3 SWOT Analysis
- 9.7 Mitsubishi Electric
  - 9.7.1 Company Overview
  - 9.7.2 Financials
    - 9.7.2.1 Financial Summary
  - 9.7.3 SWOT Analysis
- 9.8 Panasonic Corporation
  - 9.8.1 Company Overview
  - 9.8.2 Financials
    - 9.8.2.1 Financial Summary
  - 9.8.3 SWOT Analysis
- 9.9 Samsung Electronics Co. Ltd.
  - 9.9.1 Company Overview
  - 9.9.2 Financials
    - 9.9.2.1 Financial Summary
  - 9.9.3 SWOT Analysis
- 9.10 Schneider Electric
  - 9.10.1 Company Overview
  - 9.10.2 Financials
    - 9.10.2.1 Financial Summary
  - 9.10.3 SWOT Analysis
- 9.11 Siemens AG
  - 9.11.1 Company Overview
  - 9.11.2 Financials
    - 9.11.2.1 Financial Summary
  - 9.11.3 SWOT Analysis
- 9.12 Tesla Motors Inc.
  - 9.12.1 Company Overview
  - 9.12.2 Financials
    - 9.12.2.1 Financial Summary
  - 9.12.3 SWOT Analysis
- 9.13 TOSHIBA
  - 9.13.1 Company Overview



## List Of Tables

### LIST OF TABLES

Table 2.1 Few Asian Countries with their Targets to Promote Microgrids

Table 3.1 Mergers and Acquisitions

Table 3.2 Key Contracts, Collaborations, Partnerships, Agreements and Joint Ventures

Table 3.3 Key Product Launches and Developments

Table 3.4 Business Expansions in APAC Microgrid Market

Table 3.5 Awards Received, and Investments Made by Various Organizations

Table 3.6 Analyzing Threat from New Entrants in APAC Microgrid Industry

Table 3.7 Analyzing Threat from Substitute Products or Services in the APAC Microgrid Industry

Table 3.8 Analyzing Bargaining Power of the Suppliers in the APAC Microgrid Industry

Table 3.9 Analyzing Bargaining Power of Buyers in APAC Microgrid Industry

Table 3.10 Analyzing Intensity of Competitive Rivalry in APAC Microgrid Industry

Table 4.1 Microgrid Supporting Parameters in the Asia Pacific Countries

Table 4.2 Some Regulatory Bodies/Acts

Table 4.3 Examples of Some Associations/Consortiums

Table 4.4 Examples of Some Recent Patents

Table 4.5 Companies Manufacturing Different Microgrid Components

Table 6.1 APAC Microgrid Market by Technology, 2016-2026

Table 6.2 The APAC Energy Generation Microgrid Market, by Type, 2016-2026

Table 6.3 APAC Energy Generation Microgrid Market, by Application, 2016-2026

Table 6.4 APAC Energy Generation Microgrid Market, by Country, 2016-2026

Table 6.5 APAC Energy Storage Microgrid Market, by Type, 2016-2026

Table 6.6 APAC Energy Storage Microgrid Market, by Application, 2016-2026

Table 6.7 APAC Energy Storage Microgrid Market, by Country, 2016-2026

Table 7.1 Asia Pacific Microgrid Market, by Application, 2016-2026

Table 7.2 APAC Residential Microgrid Market, by Energy Generation Type, 2016-2026

Table 7.3 APAC Residential Microgrid Market by Energy Storage Type, 2016-2026

Table 7.4 APAC Residential Microgrid Market by Country, 2016-2026

Table 7.5 APAC Commercial Microgrid Market by Energy Generation Type, 2016-2026

Table 7.6 APAC Commercial Microgrid Market by Energy Storage Type, 2016-2026

Table 7.7 APAC Commercial Microgrid Market by Country, 2016-2026

Table 8.1 Asia Pacific Microgrid Market by Country, 2016-2026

Table 8.2 China Microgrid Market by Technology, 2016-2026

Table 8.3 China Microgrid Market by Application Type (2016-2026)

Table 8.4 Japan Microgrid Market by Technology, 2016-2026



Table 8.5 Japan Microgrid Market by Application Type, 2016-2026

Table 8.6 India Microgrid Market by Technology, 2016-2026

Table 8.7 India Microgrid Market by Application Type, 2016-2026

Table 8.8 Australia Microgrid Market by Technology, 2016-2026

Table 8.9 Australia Microgrid Market by Application Type, 2016-2026

Table 8.10 Philippines Microgrid Market by Technology, 2016-2026

Table 8.11 Philippines Microgrid Market by Application, 2016-2026

Table 8.12 Indonesia Microgrid Market by Technology, 2016-2026

Table 8.13 Indonesia Microgrid Market by Application Type, 2016-2026

Table 8.14 Rest of the APAC Microgrid Market by Technology, 2016-2026

Table 8.15 Rest of APAC Microgrid Market by Application Type, 2016-2026

## List Of Figures

### LIST OF FIGURES

Figure 1 Asia Pacific Microgrid Market Size Snapshot, 2016 & 2026

Figure 2 Market Share, by Technology Type, 2016 & 2026

Figure 3 Asia Pacific Microgrid Market, by Application Type, 2016-2026

Figure 4 Asia Pacific Market Snapshot, by Country, 2016

Figure 1.1 Asia Pacific Microgrid Market Scope

Figure 1.2 Research Overview

Figure 1.3 Top Down and Bottom Up Approach for Market Estimation

Figure 2.1 APAC Microgrid Market: Market Dynamics

Figure 2.2 Impact Analysis: Market Drivers for the APAC Microgrid Market

Figure 2.3 Decline in Installed Costs of Solar PV across the U.S., Portugal, and Japan, 2005-2015

Figure 2.4 Decline in the Installed Costs of Lithium Ion Batteries across the U.S., Portugal, and Japan, 2005-2015

Figure 2.5 Decline in the Installed Costs of Lead Acid Batteries across Commercial and Residential Sectors in the U.S., 2005-2015

Figure 2.6 Impact Analysis: Market Challenges for APAC Microgrid Market

Figure 2.7 Impact Analysis: Market Opportunities for APAC Microgrid Market

Figure 3.1 Percentage Share of Strategies Adopted by the Market Players, 2015-2017

Figure 3.2 Few Major Developments and Investments across Some Asia Pacific Countries

Figure 3.3 Porter's Five Forces Analysis of Microgrid Industry in APAC

Figure 4.1 Opportunity Matrix for Microgrids in Asia Pacific Countries

Figure 4.2 Regulatory Developments in the Microgrids Market across some Asia Pacific Countries

Figure 5.1 Factors Driving the Need for Microgrids in the Asia Pacific Region

Figure 5.2 Asia Pacific Microgrid Market Classification

Figure 6.1 Types of Energy Generation and Storage Technologies Used in Microgrids

Figure 6.2 APAC Microgrid Market by Technology, 2016, 2017 & 2026

Figure 6.3 APAC Energy Generation Microgrid Market by Type, 2016, 2017 & 2026

Figure 6.4 APAC Energy Generation Microgrid Market by Application, 2016, 2017 & 2026

Figure 6.5 APAC Energy Generation Microgrid Market by Country, 2016, 2017 & 2026

Figure 6.6 APAC Energy Storage Microgrid Market, by Type, 2016, 2017 & 2026

Figure 6.7 APAC Energy Storage Microgrid Market by Application, 2016, 2017 & 2026

Figure 6.8 APAC Energy Storage Microgrid Market by Country, 2016, 2017 & 2026

Figure 7.1 APAC Microgrid Market by Application

Figure 7.2 APAC Microgrid Market by Application (2016, 2017 & 2026)

Figure 7.3 APAC Residential Microgrid Market by Energy Generation Technology Type (2016, 2017 & 2026)

Figure 7.4 APAC Residential Microgrid Market by Energy Storage Technology Type, 2016, 2017 & 2026

Figure 7.5 APAC Residential Microgrid Market by Country, 2016, 2017 & 2026

Figure 7.6 APAC Commercial Microgrid Market by Energy Generation Technology Type (2016, 2017 & 2026)

Figure 7.7 APAC Commercial Microgrid Market by Energy Storage Technology Type, 2016, 2017 & 2026

Figure 7.8 APAC Commercial Microgrid Market by Country, 2016, 2017 & 2026

Figure 8.1 Percentage Population with No Access to Electricity in the Asia Pacific Countries

Figure 8.2 Asia Pacific Microgrid Market Growth Snapshot 2016

Figure 8.3 APAC Microgrid Market by Country, 2016, 2017, 2026

Figure 8.4 China Microgrid Market (2016-2026)

Figure 8.5 China Microgrid Market Opportunities

Figure 8.6 China Microgrid Market by Technology, 2016, 2017 & 2026

Figure 8.7 China Microgrid Market by Application, 2016, 2017 & 2026

Figure 8.8 Japan Microgrid Market (2016-2026)

Figure 8.9 Japan Microgrid Market Opportunities

Figure 8.10 Japan Microgrid Market by Technology, 2016, 2017 & 2026

Figure 8.11 Japan Microgrid Market by Application, 2016, 2017 & 2026

Figure 8.12 India Microgrid Market (2016, 2017 & 2026)

Figure 8.13 India Microgrid Opportunities

Figure 8.14 India Microgrid Market by Technology (2016, 2017 & 2026)

Figure 8.15 India Microgrid Market by Application (2016, 2017 & 2026)

Figure 8.16 Australia Microgrid Market (2016 & 2026)

Figure 8.17 Australia Microgrid Market Opportunities

Figure 8.18 Australia Microgrid Market by Technology, 2016, 2017 & 2026

Figure 8.19 Australia Microgrid Market by Application (2016, 2017 & 2026)

Figure 8.20 Philippines Microgrid Market (2016-2026)

Figure 8.21 Philippines Microgrid Market Opportunities

Figure 8.22 Philippines Microgrid Market by Technology (2016, 2017 & 2026)

Figure 8.23 Philippines Microgrid Market by Application (2016, 2017 & 2026)

Figure 8.24 Indonesia Microgrid Market (2016-2026)

Figure 8.25 Indonesia Microgrid Market Opportunities

Figure 8.26 Indonesia Microgrid Market by Technology, 2016, 2017 & 2026

- Figure 8.27 Indonesia Microgrid Market by Application (2016, 2017 & 2026)
- Figure 8.28 Rest of the APAC Microgrid Market (2016-2026)
- Figure 8.29 Rest of the APAC Microgrid Market by Technology, 2016, 2017 & 2026
- Figure 8.30 Rest of the APAC Microgrid Market by Application, 2016, 2017, & 2026
- Figure 9.1 ABB Ltd.: Overall Financials (2014–2016)
- Figure 9.2 ABB Ltd.: Net Revenue by Business Segment (2014-2016)
- Figure 9.3 ABB Ltd.: Net Revenue by Region (2014-2016)
- Figure 9.4 ABB Ltd.: SWOT Analysis
- Figure 9.5 General Electric Company: Overall Financials (2014-2016)
- Figure 9.6 General Electric Company: Net Revenue by Business Segment, 2014-2016
- Figure 9.7 General Electric Company: Net Revenue by Region
- Figure 9.8 General Electric: SWOT Analysis
- Figure 9.9 Hitachi: Overall Financials (2014-2016)
- Figure 9.10 Hitachi: Revenue by Business Segment (2015-2016)
- Figure 9.11 Hitachi: Net Revenue by Region (2014-2016)
- Figure 9.12 Hitachi: SWOT Analysis
- Figure 9.13 Honeywell International Inc. – Overall Financials, 2014-2016
- Figure 9.14 Honeywell International Inc. – Net Revenue by Business Segment, 2014-2016
- Figure 9.15 Honeywell International Inc. – Net Revenue by Region, 2014-2016
- Figure 9.16 Honeywell International Inc. – SWOT Analysis
- Figure 9.17 Mitsubishi: Overall Financials (2015-2017)
- Figure 9.18 Mitsubishi: Revenue by Business Segments (2015-2017)
- Figure 9.19 Mitsubishi: Revenue by Geography (2015-2017)
- Figure 9.20 Mitsubishi: SWOT Analysis
- Figure 9.21 Panasonic: Overall Financials (2015-2017)
- Figure 9.22 Panasonic: Revenue by Business Segment (2015-2017)
- Figure 9.23 Panasonic: Revenue by Geography (2015-2017)
- Figure 9.24 Panasonic: SWOT Analysis
- Figure 9.25 Samsung: Overall Financials (2014-2016)
- Figure 9.26 Samsung: Revenue by Business Segment (2014-2016)
- Figure 9.27 Samsung: Revenue by Geography (2014-2016)
- Figure 9.28 Samsung: SWOT Analysis
- Figure 9.29 Schneider Electric: Overall Financials (2014–2016)
- Figure 9.30 Schneider Electric: Net Revenue by Region (2014-2016)
- Figure 9.31 Schneider Electric: Net Revenue by Business Segment (2014-2016)
- Figure 9.32 Schneider Electric: SWOT Analysis
- Figure 9.33 Siemens AG: Overall Financials (2014–2016)
- Figure 9.34 Siemens AG: Net Revenue by Region (2014-2016)

Figure 9.35 Siemens AG: Net Revenue by Business Segment (2014-2016)

Figure 9.36 Siemens AG: SWOT Analysis

Figure 9.37 Tesla Motors Inc.: Overall Financials, 2014-2016

Figure 9.38 Tesla Motors Inc.: Net Revenue by Business Segment, 2014-2016

Figure 9.39 Tesla Motors Inc.: Net Revenue by Region, 2014-2016

Figure 9.40 Tesla Motors Inc.: SWOT Analysis

## I would like to order

Product name: APAC Microgrid Market - Analysis & Forecast (2017-2026) Focus on Technology Type: Energy Generation (Solar PV, Wind Turbine, Diesel Gensets) & Energy Storage (Lithium Ion Batteries, Lead Acid Batteries), Application: Residential & Commercial

Product link: <https://marketpublishers.com/r/AD9E4EE6E36BEN.html>

Price: US\$ 4,199.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/AD9E4EE6E36BEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below

and fax the completed form to +44 20 7900 3970