

ASEAN Smart Grid Market: Focus on Product Offerings (Software, Hardware, Services), Technology (AMI, T&D Automation, Consumer Energy Management, Energy Storage), End User, Communication Tech, Countries, Cost-Benefit, Investment - Analysis and Forecast, 2019-2024

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Abstracts

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Key Questions Answered in this Report:

What is the ASEAN smart grid market size in terms of revenue from 2018-2024, and what is the expected growth rate during the forecast period 2019-2024?

What is the expected future outlook and revenue generated by the different types of product offerings including software, hardware, and support services?

What is the revenue generated by smart grid in different end users including generation, transmission, distribution, and consumption?

What is the revenue generated by different technologies of smart grid across ASEAN countries including transmission and distribution automation, advanced metering infrastructure, energy storage, consumer energy management, wide area monitoring, and others?

What is the market size and opportunities of smart grid across different ASEAN countries?

What are the major driving forces that are expected to increase the demand for the ASEAN smart grid market during the forecast period?

What are the key market trends and market opportunities in the market pertaining to ASEAN smart grid?

What are the major challenges inhibiting the growth of the ASEAN smart grid market?

What kind of new strategies are being adopted by the existing market players to expand their market position in the industry including partnerships, collaborations, and joint venture, mergers and acquisitions, product launches and developments, and business expansion and contracts?

What is the competitive strength of the key players in the smart grid market on the basis of analysis of their recent developments, product offerings, and their country-level presence?

How is the funding and investment landscape in the ASEAN smart grid market?

Which type of players and stakeholders are present in the smart grid market and what is their significance?

Which are the leading consortiums and associations in the ASEAN smart grid market and what is their role in the market?

Which are the key regulatory bodies in the ASEAN countries for smart grids and what is their role in the market?

ASEAN Smart Grid Market Forecast, 2019-2024

The ASEAN smart grid market is projected to grow from \$1,248.8 million in 2019 to \$2,949.6 million by 2024, at a CAGR 18.76% from 2019 to 2024.

The increasing demand for energy efficiency and the need for transparent energy consumption mechanism has propelled the need for smart grid in the ASEAN market. Moreover, there is an increased concern to reduce transmission and distribution losses

across the supply chain to reduce power outages. Furthermore, the rising share of renewable energy in the energy mix can lead to congestion and complexity within the grid. Therefore, smart grid using transmission and distribution automation software, demand response technology, and advance metering infrastructure will mitigate the abovementioned issues, which is currently existing in the traditional grid. Therefore, the growth of the market is likely to be encouraged by the abovementioned factors, along with the growing digitalization in the ASEAN countries.

Expert Quote

'Consumer energy management is emerging as one of the prominent technologies in the ASEAN smart grid market. Consumers at residential households, commercial end user, and at the manufacturing industries are using this technology to monitor and control their energy demand. Catering to the residential households, the consumer energy management software, known as smart home controller, communicates with the all the household components. The batteries in smart homes get charged through the rooftop solar panel throughout the day. The electricity stored in the batteries are also used to charge the electric vehicles. The surplus electricity generated is fed to the electrical grid. The consumer energy management technology in smart grid works on demand response programs. With demand response programs, the electricity consumption can be altered depending on the supply of electricity during peak demand.'

Scope of the ASEAN Smart Grid Market

The ASEAN smart grid market research provides a detailed perspective regarding the smart grid product offerings, technologies, and the impacted end users. Market size estimation and forecast has been provided for the entire region, for individual countries and for the respective market segmentations. The purpose of this market analysis is to examine the impact of smart grids in ASEAN countries in terms of factors driving the market, business trends, technological developments, and funding scenario, among others.

The report further takes into consideration the market dynamics and the competitive landscape along with the detailed financial and product portfolio of the key players operating in the market. The ASEAN smart grid market report is a compilation of different segments including market breakdown by product offerings, technologies, end users, and countries. The report also includes a comprehensive industry analysis chapter which includes comprehensive illustration of the smart grid ecosystem, key

regulatory bodies and their impact on ASEAN smart grid market , investment and funding landscape for smart grid projects in the region, stakeholder analysis, key consortiums and associations, and cost benefit analysis of smart grids in the region.

ASEAN Smart Grid Market Segmentation

The ASEAN smart grid market by end user has been segmented into generation, transmission, distribution, and consumption. In 2019, the distribution segment accounted for the largest share in the market as a result of the increasing necessity for advance metering infrastructure. However, during the forecast period, consumption segment is expected to display the highest growth owing to the increasing demand for transparent billing mechanism depending upon the time of use across consumers during the peak load hours.

The trends in the ASEAN smart grid market vary across different countries. Singapore and Malaysia currently hold a prominent market share in the ASEAN smart grid market, owing to constant product innovation, expansion of automated technologies in small-scale holdings, and favorable government support in terms of initiatives and regulations to promote renewable energy. In 2019, Singapore was witnessed to be the frontrunner in the market. During the forecast period, Thailand and Vietnam are expected to flourish as one of the most lucrative markets for smart grid technology providers, owing to governmental initiative to make these two countries as smart nation. Also, these countries in this ASEAN region present immense scope for market development, owing to the increasing urban population size and growing market penetration of advance technologies such as electric vehicles charging infrastructure and vehicle to grid.

Key Companies in the ASEAN Smart Grid Market

The prominent players in the ASEAN smart grid market include Itron Inc., General Electric, Autogrid Systems, ABB Ltd. Siemens AG, Schneider Electric, Enel X, S&C Electric, Aclara Technologies, Tantalus Systems, Eaton Corporation, Landis+Gyr, Honeywell International, Wipro Limited, IBM Corporation, Mitsubishi Electric, Oracle Corporation, Fujitsu Limited, Esyasoft Technologies, eSmart Systems, Kamstrup LLC, Sympower, EDMI Ltd., Holley Technology, Prominent GmbH, Krizik Malaysia Sdn Bhd, Smart Meter Technologies, Singapore Power, Tenaga Nasional Berhad, Xylem Inc., Cisco Systems, Huawei Technologies, Trilliant Networks, Nokia Networks, Rockwell Automation, Johnson Controls, Ingersoll Rand, ENGIE, and Emerson Electric.

Contents

Executive Summary

1 MARKET DYNAMICS

1.1 Market Drivers

- 1.1.1 Rising Demand of Renewables in the Energy Mix
- 1.1.2 Demand for Transparent Energy Consumption and Billing
- 1.1.3 Favorable Government Initiatives

1.2 Market Restraints

- 1.2.1 High Capital Investment
- 1.2.2 Data Privacy and Security Risk

1.3 Market Opportunities

- 1.3.1 Rise in Decentralized Operations & Management Systems due to Blockchain Technology
- 1.3.2 Adoption of Electric Vehicles

2 COMPETITIVE LANDSCAPE

2.1 Key Market Developments and Strategies

- 2.1.1 Partnerships, Collaborations, and Joint Ventures
- 2.1.2 Mergers and Acquisitions
- 2.1.3 Product Launches and Developments
- 2.1.4 Business Expansions and Contracts
- 2.1.5 Others

2.2 Competitive Benchmarking of Key Players in ASEAN Smart Grid Market

3 INDUSTRY ANALYSIS

3.1 Smart Grid Ecosystem

- 3.1.1 Stakeholder Analysis
 - 3.1.1.1 Smart Grid Impact Matrix and Analysis
 - 3.1.1.2 Power Utilities
 - 3.1.1.3 Smart Metering Companies
 - 3.1.1.4 ICT Solution Providers
 - 3.1.1.5 Energy Management and Automation Companies
- 3.1.2 Key Ecosystem Elements
 - 3.1.2.1 Utility Software Solutions

- 3.1.2.1.1 Asset Management
- 3.1.2.1.2 Advanced Metering Infrastructure
- 3.1.2.1.3 Grid Network Management
- 3.1.2.1.4 Grid Distribution Management
- 3.1.2.1.5 Others
- 3.1.2.2 Utility Hardware Solutions
 - 3.1.2.2.1 Smart Meters
 - 3.1.2.2.2 Sensors
 - 3.1.2.2.3 Others
- 3.1.2.3 Smart Grid Communication Solutions
 - 3.1.2.3.1 Wired Technologies
 - 3.1.2.3.1.1 Ethernet
 - 3.1.2.3.1.2 Modbus
 - 3.1.2.3.1.3 PROFINET
 - 3.1.2.3.1.4 FOUNDATION Fieldbus
 - 3.1.2.3.2 Wireless Technologies
 - 3.1.2.3.2.1 Wi-Fi
 - 3.1.2.3.2.2 ZigBee
 - 3.1.2.3.2.3 Bluetooth and Bluetooth Low Energy
 - 3.1.2.3.2.4 Cellular Technology
 - 3.1.2.3.2.5 LPWAN Technology
 - 3.1.2.4 Smart Grid Consumer Solutions
- 3.2 Key Regulatory Bodies and their Impact
- 3.3 Investment & Funding Landscape
- 3.4 Key Consortiums and Associations
- 3.5 Cost Benefit Analysis
 - 3.5.1 Introduction: The Need
 - 3.5.2 Pre-Defined Boundaries
 - 3.5.3 Objective & Methodology
 - 3.5.4 Cost Benefit Analysis: 100 MW Smart Grid in Singapore

4 ASEAN SMART GRID MARKET (BY PRODUCT OFFERING)

- 4.1 Market Overview
- 4.2 Software
- 4.3 Hardware
- 4.4 Support Services

5 ASEAN SMART GRID MARKET (BY END USER)

- 5.1 Market Overview
- 5.2 Distribution
- 5.3 Transmission
- 5.4 Generation
- 5.5 Consumption

6 ASEAN SMART GRID MARKET (BY TECHNOLOGY)

- 6.1 Market Overview
- 6.2 Transmission and Distribution Automation
- 6.3 Advanced Metering Infrastructure (AMI)
- 6.4 Energy Storage
- 6.5 Consumer Energy Management
- 6.6 Wide Area Monitoring
- 6.7 Other Technologies

7 ASEAN SMART GRID MARKET (BY COUNTRY)

- 7.1 Singapore
 - 7.1.1 Singapore Smart Grid Market Trends
 - 7.1.2 Singapore Smart Grid Market Size, Forecast & Analysis
 - 7.1.3 Key Investment & Funding: Singapore Smart Grid Market
- 7.2 Malaysia
 - 7.2.1 Malaysia Smart Grid Market Trends
 - 7.2.2 Malaysia Smart Grid Market Size, Forecast & Analysis
 - 7.2.3 Key Investment & Funding: Malaysia Smart Grid Market
- 7.3 Thailand
 - 7.3.1 Thailand Smart Grid Market Trends
 - 7.3.2 Thailand Smart Grid Market Size, Forecast & Analysis
 - 7.3.3 Key Investment & Funding: Thailand Smart Grid Market
- 7.4 Vietnam
 - 7.4.1 Vietnam Smart Grid Market Trends
 - 7.4.2 Vietnam Smart Grid Market Size, Forecast & Analysis
 - 7.4.3 Key Investment & Funding: Vietnam Smart Grid Market
- 7.5 Philippines
 - 7.5.1 Philippines Smart Grid Market Trends
 - 7.5.2 Philippines Smart Grid Market Size, Forecast & Analysis
 - 7.5.3 Key Investment & Funding: Philippines Smart Grid Market

7.6 Indonesia

7.6.1 Indonesia Smart Grid Market Trends

7.6.2 Indonesia Smart Grid Market Size, Forecast & Analysis

7.6.3 Key Investment & Funding: Indonesia Smart Grid Market

7.7 Myanmar

7.7.1 Myanmar Smart Grid Market Trends

7.7.2 Myanmar Smart Grid Market Size, Forecast & Analysis

7.7.3 Key Investment & Funding: Myanmar Smart Grid Market

7.8 Cambodia

7.8.1 Cambodia Smart Grid Market Trends

7.8.2 Cambodia Smart Grid Market Size, Forecast & Analysis

7.8.3 Key Investment & Funding: Cambodia Smart Grid Market

7.9 Laos

7.9.1 Laos Smart Grid Market Trends

7.9.2 Laos Smart Grid Market Size, Forecast & Analysis

7.9.3 Key Investment & Funding: Laos Smart Grid Market

7.10 Brunei

7.10.1 Brunei Smart Grid Market Trends

7.10.2 Brunei Smart Grid Market Size, Forecast & Analysis

8 COMPANY PROFILES

8.1 Overview

Energy Management and Automation Companies

8.2 ABB Ltd

8.2.1 Company Overview

8.2.2 Role of ABB Ltd. in ASEAN Smart Grid Market

8.2.3 Financials

8.2.4 Key Insights about the Financial Health of the Company

8.2.5 SWOT ANALYSIS

8.3 Eaton Corporation Plc

8.3.1 Company Overview

8.3.2 Role of Eaton Corporation Plc in ASEAN Smart Grid Market

8.3.3 Financials

8.3.4 Key Insights about the Financials Health of the Company

8.3.5 SWOT Analysis

8.4 General Electric

8.4.1 Company Overview

8.4.2 Role of General Electric in ASEAN Smart Grid Market

- 8.4.3 Financials
- 8.4.4 Key Insights about the Financial Health of the Company
- 8.4.5 SWOT Analysis
- 8.5 Honeywell International Inc.
 - 8.5.1 Company Overview
 - 8.5.2 Role of Honeywell International Inc. in ASEAN Smart Grid Market
 - 8.5.3 Financials
 - 8.5.4 Key Insights about the Financial Health of the company
 - 8.5.5 SWOT ANALYSIS
- 8.6 Mitsubishi Electric Corporation
 - 8.6.1 Company Overview
 - 8.6.2 Role of Mitsubishi Electric Corporation in ASEAN Smart Grid Market
 - 8.6.3 Financials
 - 8.6.4 SWOT Analysis
- 8.7 Siemens AG
 - 8.7.1 Company Overview
 - 8.7.2 Role of Siemens AG in ASEAN Smart Grid Market
 - 8.7.3 Financials
 - 8.7.4 SWOT Analysis
- 8.8 Schneider Electric
 - 8.8.1 Company Overview
 - 8.8.2 Role of Schneider Electric in ASEAN Smart Grid Market
 - 8.8.3 Financials
 - 8.8.4 Key Insights about the Financial Health of the company
 - 8.8.5 SWOT Analysis
- 8.9 Rockwell Automation Inc.
 - 8.9.1 Company Overview
 - 8.9.2 Role of Rockwell Automation in ASEAN Smart Grid for Energy Management
- 8.10 Johnson Controls
 - 8.10.1 Company Overview
 - 8.10.2 Role of Johnson Controls in ASEAN Smart Grid for Energy Management
- 8.11 Ingersoll Rand Plc
 - 8.11.1 Company Overview
 - 8.11.2 Role of Ingersoll Rand in ASEAN Smart Grid for Energy Management
- 8.12 ENGIE
 - 8.12.1 Company Overview
 - 8.12.2 Role of ENGIE in ASEAN Smart Grid for Energy Management
- 8.13 Emerson Electric Co.
 - 8.13.1 Company Overview

8.13.2 Role of Emerson Electric in ASEAN Smart Grid for Energy Management

Power Utilities

8.14 AutoGrid Systems, Inc

8.14.1 Company Overview

8.14.2 Role of AutoGrid Systems, Inc in ASEAN Smart Grid Market

8.14.3 SWOT Analysis

8.15 Enel X North America, Inc.

8.15.1 Company Overview

8.15.2 Role of Enel X North America, Inc. in ASEAN Smart Grid Market

8.15.3 SWOT Analysis

8.16 Singapore Power Ltd.

8.16.1 Company Overview

8.16.2 Role of Singapore Power Ltd. in ASEAN Smart Grid Market

8.16.3 Financials

8.16.4 SWOT ANALYSIS

8.17 Tenaga Nasional Berhad

8.17.1 Company Overview

8.17.2 Role of Tenaga Nasional Berhad in ASEAN Smart Grid Market

8.17.3 SWOT ANALYSIS

Information and Communication Technology Companies

8.18 IBM Corporation

8.18.1 Company Overview

8.18.2 Role of IBM Corporation in ASEAN Smart Grid Market

8.18.3 Financials

8.18.4 Key Insights About the Financial Health of the Company

8.18.5 SWOT Analysis

8.19 Oracle Corporation

8.19.1 Company Overview

8.19.2 Role of Oracle Corporation Inc. in ASEAN Smart Grid Market

8.19.3 Financials

8.19.4 SWOT Analysis

8.20 Fujitsu Limited

8.20.1 Company Overview

8.20.2 Role of Fujitsu Limited in ASEAN Smart Grid Market

8.20.3 Financials

8.20.4 SWOT Analysis

8.21 Wipro Limited

8.21.1 Company Overview

8.21.2 Role of Wipro Limited in ASEAN Smart Grid Market

- 8.21.3 Financials
- 8.21.4 SWOT Analysis
- 8.22 CISCO Systems Inc.
 - 8.22.1 Company Overview
 - 8.22.2 Role of Cisco Systems Inc. in ASEAN Smart Grid Communication Market
- 8.23 Huawei Technologies Co., Ltd.
 - 8.23.1 Company Overview
 - 8.23.2 Role of Huawei Technologies Co., Ltd. in ASEAN Smart Grid Communication Market
- 8.24 Trilliant Networks, Inc.
 - 8.24.1 Company Overview
 - 8.24.2 Role of Trilliant Networks in ASEAN Smart Grid Communication Market
- 8.25 Nokia Networks
 - 8.25.1 Company Overview
 - 8.25.2 Role of Nokia Networks in ASEAN Smart Grid Communication Market
- 8.26 C3 IoT, Inc.
 - 8.26.1 Company Overview
 - 8.26.2 Role of C3 IoT in ASEAN Smart Grid for Energy Management
- Other Smart Grid Companies
- 8.27 Itron Inc.
 - 8.27.1 Company Overview
 - 8.27.2 Role of Itron Inc. in ASEAN Smart Grid Market
 - 8.27.3 Financials
 - 8.27.4 SWOT ANALYSIS
- 8.28 S&C Electric Company
 - 8.28.1 Company Overview
 - 8.28.2 Role of S&C Electric Company in ASEAN Smart Grid Market
 - 8.28.3 SWOT Analysis
- 8.29 Aclara Technologies LLC
 - 8.29.1 Company Overview
 - 8.29.2 Role of Aclara Technologies LLC in ASEAN Smart Grid Market
 - 8.29.3 SWOT Analysis
- 8.30 Tantalus Systems Corp.
 - 8.30.1 Company Overview
 - 8.30.2 Role of Tantalus Systems Corp. in ASEAN Smart Grid Market
 - 8.30.3 SWOT Analysis
- 8.31 Landis+Gyr Inc.
 - 8.31.1 Company Overview
 - 8.31.2 Role of Landis+Gyr Inc. in ASEAN Smart Grid Market

- 8.31.3 Financials
- 8.31.4 SWOT ANALYSIS
- 8.32 Esyasoft Technologies Pvt. Ltd.
 - 8.32.1 Company Overview
 - 8.32.2 Role of Esyasoft Technologies Private Limited in ASEAN Smart Grid Market
- 8.33 eSmart Systems AS
 - 8.33.1 Company Overview
 - 8.33.2 Role of eSmart Systems AS Company in ASEAN Smart Grid Market
- 8.34 Kamstrup A/S
 - 8.34.1 Company Overview
 - 8.34.2 Role of Kamstrup A/S in ASEAN Smart Grid Market
- 8.35 Sympower
 - 8.35.1 Company Overview
 - 8.35.2 Role of Sympower in ASEAN Smart Grid Market
- 8.36 EDM I Limited.
 - 8.36.1 Company Overview
 - 8.36.2 Role of EDM I Limited. in ASEAN Smart Grid Market
- 8.37 Holley Technology Limited
 - 8.37.1 Company Overview
 - 8.37.2 Role of Holley Technology Ltd. in ASEAN Smart Grid Market
- 8.38 ProMinent GmbH
 - 8.38.1 Company Overview
 - 8.38.2 Role of ProMinent GmbH in ASEAN Smart Grid Market
- 8.39 Krizik Malaysia Sdn Bhd (KMSB)
 - 8.39.1 Company Overview
 - 8.39.2 Role of Krizik Malaysia Sdn Bhd in ASEAN Smart Grid Market
- 8.40 Smart Meters Technologies (M) Sdn Bhd
 - 8.40.1 Company Overview
 - 8.40.2 Role of Smart Meters Technologies (M) Sdn Bhd in ASEAN Smart Grid Market
- 8.41 Xylem Inc.
 - 8.41.1 Company Overview
 - 8.41.2 Role of Xylem Inc. in ASEAN Smart Grid Market
 - 8.41.3 Financials
 - 8.41.4 SWOT ANALYSIS

9 REPORT SCOPE AND METHODOLOGY

- 9.1 Report Scope
- 9.2 Market Research Methodology

- 9.2.1 Assumptions
- 9.2.2 Limitations
- 9.2.3 Primary Data Sources
- 9.2.4 Secondary Data Sources
- 9.2.5 Data Triangulation
- 9.2.6 Market Estimation and Forecast

10 ANNEXURE

10.1 Annexure A: List of Key Strategies and Developments in ASEAN Smart Grid Market (Jan 2017- Dec 2019)

List Of Tables

LIST OF TABLES

Table 1: Cost-Benefit Comparison of 100 MW Smart Grid Project in Singapore

Table 1.1: Impact Analysis of Market Drivers

Table 1.2: Levelized Cost of Electricity (LCOE) for Distributed Energy Sources

Table 1.3: Investments Made for Promoting Decentralized Energy System

Table 1.4: Government Initiatives in Various Countries to Promote Smart Grids for ASEAN Countries

Table 1.5: Impact Analysis of Restraints

Table 3.1: Listing of Ethernet Cables Along with Data Speed and Maximum Bandwidth

Table 3.2: Regulatory Bodies in ASEAN Smart Grid Market

Table 3.3: Funds Raised by the Leading Companies in ASEAN Smart Grid Market

Table 3.4: Key Consortiums and Associations in ASEAN Smart Grid Market

Table 3.5: Monetized Smart Grid Benefits for the Defined Project

Table 3.6: Smart Grid Equipment Cost

Table 3.7: Cost-Benefit Comparison of 100 MW Smart Grid Project in Singapore

Table 4.1: ASEAN Smart Grid Market (by Product Offering), \$Million, 2018-2024

Table 5.1: ASEAN Smart Grid Market (by End User), \$Million, 2018-2024

Table 5.2: Country-wise Smart Meter Installation in 2018

Table 6.1: ASEAN Smart Grid Market (by Technology), \$Million, 2018-2024

Table 6.2: Features and Advantages of Distributed Generation

Table 6.3: Applications of Energy Storage Solutions in the Power Supply Network

Table 6.8: Functions of Demand Response Mechanism

Table 7.1: ASEAN Smart Grid Market (by Country), 2018-2024, \$Million

Table 7.2: Singapore Utility: Key Partnerships & Collaborations

Table 7.3: Singapore Investing and Funding for Smart Grid

Table 7.4: Power Utilities in Malaysia

Table 7.5: SAIDI of Malaysia, 2011-2016

Table 7.6: SAIFI of Malaysia, 2011-2016

Table 7.7: Malaysia Investing and Funding for Smart Grid

Table 7.8: Thailand Investing and Funding for Smart Grid

Table 7.9: Vietnam Utility: Key Partnerships & Collaborations

Table 7.10: Roadmap of Smart Grid Development Project

Table 7.11: Vietnam Investing and Funding for Smart Grid

Table 7.12: Power Supply Capacity in Philippines

Table 7.13: Philippines Investing and Funding for Smart Grid

Table 7.14: Levelized Cost of Electricity in Indonesia, June 2018

Table 7.15: Indonesia Utility: Key Partnerships & Collaborations

Table 7.16: Indonesia Investing and Funding for Smart Grid

Table 7.17: Myanmar Investing and Funding for Smart Grid

Table 7.18: Renewable Energy Targets in Cambodia

Table 7.19: Cambodia Investing and Funding for Smart Grid

Table 7.20: Renewable Energy Targets in Laos

Table 7.21: Lao PDR Investing and Funding for Smart Grid

Table 7.22: Electricity Tariff in Brunei, 2017

Table 8.1: ABB Ltd.: Product Portfolio

Table 8.2: Eaton Corporation Plc: Product Portfolio

Table 8.3: General Electric: Product Portfolio

Table 8.4: Honeywell International: Product Portfolio

Table 8.5: Mitsubishi Electric Corporation: Product Portfolio

Table 8.6: Siemens AG: Product Portfolio

Table 8.7: Schneider Electric: Product Portfolio

Table 8.8: AutoGrid Systems, Inc: Product Portfolio

Table 8.9: Enel X North America, Inc.: Product Portfolio

Table 8.10: Singapore Power Ltd.: Product Portfolio

Table 8.11: Tenaga Nasional Berhad: Product Portfolio

Table 8.12: IBM Corporation: Product Portfolio

Table 8.13: Oracle Corporation: Product Portfolio

Table 8.14: Fujitsu Limited: Product Portfolio

Table 8.15: Wipro Limited: Product Portfolio

Table 8.16: Itron Inc.: Product Portfolio

Table 8.17: S&C Electric Company: Product Portfolio

Table 8.18: Aclara Technologies LLC: Product Portfolio

Table 8.19: Tantalus Systems Corp.: Product Portfolio

Table 8.20: Landis+Gyr: Product Portfolio

Table 8.21: Esyasoft Technologies Private Limited: Product Portfolio

Table 8.22: eSmart System Company: Product Portfolio

Table 8.23: Kamstrup A/S: Product Portfolio

Table 8.24: Xylem Inc.: Product Portfolio

List Of Figures

LIST OF FIGURES

- Figure 1: Electrification Percentage Across ASEAN Countries, 2016
- Figure 2: Smart Grid Network
- Figure 3: Factors Affecting the ASEAN Smart Grid Market
- Figure 4: ASEAN Smart Grid Market Snapshot
- Figure 5: ASEAN Smart Grid Market, by Product Offering, 2019 and 2024, \$Million
- Figure 6: ASEAN Smart Grid Market, by Technology, 2019 and 2024, \$Million
- Figure 7: ASEAN Smart Grid Market (by End User), \$Million, 2019 and 2024
- Figure 8: Country-Wise ASEAN Smart Grid Market Snapshot
- Figure 1.1: Market Dynamics
- Figure 1.2: Traditional and Future Model of Electrical Ecosystem
- Figure 1.3: Use Cases of Blockchain in Smart Grids
- Figure 2.1: Market Strategies Adopted by the Key Players (January 2017- December 2019)
- Figure 2.2: Share of Key Market Strategies and Developments (January 2017- December 2019)
- Figure 2.3: Partnerships, Collaborations, and Joint Ventures Share (by Company)
- Figure 2.4: Mergers and Acquisitions Share (by Company)
- Figure 2.5: New Product Launches and Developments Share (by Company)
- Figure 2.6: Business Expansions and Contracts Share (by Company)
- Figure 2.7: Competitive Benchmarking Matrix
- Figure 3.1: Smart Grid Ecosystem Stakeholders in ASEAN Region
- Figure 3.3: Process Flow Chart of Power Industry
- Figure 3.4: Wired and Wireless Technologies for Communication
- Figure 3.5: Major Components Required for Setting up a Wired Ethernet LAN
- Figure 3.6: ASEAN Smart Grid Market, Investment and Funding, January 2017-December 2019
- Figure 4.1: ASEAN Smart Grid Software Market, \$Million, 2018-2024
- Figure 4.2: Hardware Product Offerings in ASEAN Smart Grid Market
- Figure 4.3: ASEAN Smart Grid Hardware Market, 2018-2024, \$Million
- Figure 4.4: Key Smart Grid Support Services
- Figure 4.5: ASEAN Smart Grid Support Services Market, 2018-2024
- Figure 5.1: End Users of Smart Grid
- Figure 5.2: Types of Distributed Energy Resources
- Figure 5.3: ASEAN Smart Grid Market for Distribution, 2018-2024
- Figure 5.4: Major Activities in the Transmission Sector

Figure 5.5: ASEAN Smart Grid Market for Transmission, 2018-2024

Figure 5.6: ASEAN Smart Grid Market for Generation, 2018-2024

Figure 5.7: ASEAN Smart Grid Market for Consumption, 2018-2024

Figure 6.1: Key Benefits of Smart Grid Technologies

Figure 6.2: Transmission and Distribution Automation Technology-Based ASEAN Smart Grid Market, 2018-2024

Figure 6.3: Advanced Metering Infrastructure Technology-Based ASEAN Smart Grid Market, 2018-2024

Figure 6.4: Energy Storage Systems-Based Technology in ASEAN Smart Grid Market, 2018-2024

Figure 6.5: Driving Factors of Consumer Energy Management

Figure 6.6: Consumer Energy Management-Based Technology in ASEAN Smart Grid Market, 2018-2024

Figure 6.7: Wide Area Monitoring Technology in ASEAN Smart Grid Market, 2018-2024

Figure 6.9: Other Technologies in ASEAN Smart Grid Market, 2018-2024

Figure 7.1: ASEAN Smart Grid Market Snapshot

Figure 7.2: Energy Mix of Singapore

Figure 7.3: SAIDI and SAIFI of Singapore, 2012-2017

Figure 7.4: Singapore Smart Grid Market, 2018-2024, \$Million

Figure 7.5: Malaysian Grid Network

Figure 7.6: Energy Mix of Malaysia

Figure 7.7: Malaysia Smart Grid Market, 2018-2024, \$Million

Figure 7.8: Thailand Smart Grid Market, 2018-2024, \$Million

Figure 7.9: Energy Mix of Vietnam, 2018

Figure 7.10: Power Ecosystem of Vietnam

Figure 7.11: Peak Demand of Electricity in Vietnam, 2012-2018

Figure 7.12: SAIDI and SAIFI, 2012-2018

Figure 7.13: Vietnam Smart Grid Market, 2018-2024, \$Million

Figure 7.14: Philippines Smart Grid Market, 2018-2024, \$Million

Figure 7.15: Electricity Supply Chain of Indonesia

Figure 7.16: Indonesia Smart Grid Market, 2018-2024, \$Million

Figure 7.17: Myanmar Smart Grid Market, 2018-2024, \$Million

Figure 7.18: Cambodia Smart Grid Market, 2018-2024, \$Million

Figure 7.19: Electricity Demand in Laos, 2005-2025

Figure 7.20: Laos Smart Grid Market, 2018-2024, \$Million

Figure 7.21: Solar Irradiance Rate in Brunei, 2015-2016

Figure 7.22: Brunei Smart Grid Market, 2018-2024, \$Million

Figure 8.1: Segmentation of Key Companies Profiled by Type of Company

Figure 8.2: ABB Ltd: Overall Financials, 2016-2018

- Figure 8.3: ABB Ltd.: Net Revenue by Business Segment, 2016-2018
- Figure 8.4: ABB Ltd.: Net Revenue by Regional Segment, 2016-2018
- Figure 8.5: ABB Ltd: Research and Development Investment: 2016-2018
- Figure 8.6: ABB Ltd.: SWOT Analysis
- Figure 8.7: Eaton Corporation Plc: Overall Financials, 2016-2018
- Figure 8.8: Eaton Corporation Plc: Net Revenue by Business Segment 2016-2018
- Figure 8.9: Eaton Corporation Plc: Net Revenue by Regional Segment 2016-2018
- Figure 8.10: Research and Development Investment -2016 to 2018
- Figure 8.11: Eaton Corporation Plc: SWOT Analysis
- Figure 8.12: General Electric: Overall Financials, 2016-2018
- Figure 8.13: General Electric: Net Revenue by Industrial Business Segment, 2016-2018
- Figure 8.14: General Electric: Net Revenue by Regional Segment, 2016-2018
- Figure 8.15: General Electric: Research and Development Investment: 2016-2018
- Figure 8.16: General Electric: SWOT Analysis
- Figure 8.17: Honeywell International: Overall Financials, 2016-2018
- Figure 8.18: Honeywell International: Net Revenue (by Business Segment), 2016-2018
- Figure 8.19: Honeywell International: Net Revenue (by Regional Segment), 2016-2018
- Figure 8.20: Research and Development Investment: Honeywell International – 2016 to 2018
- Figure 8.21: Honeywell International: SWOT Analysis
- Figure 8.22: Mitsubishi Electric Corporation: Overall Financials, 2017-2019
- Figure 8.23: Mitsubishi Electric Corporation: Net Revenue by Business Segment, 2017-2019
- Figure 8.24: Mitsubishi Electric Corporation: Net Revenue by Regional Segment, 2017-2019
- Figure 8.25: Mitsubishi Electric Corporation: SWOT Analysis
- Figure 8.26: Siemens AG: Overall Financials, 2016-2018
- Figure 8.27: Siemens AG: SWOT Analysis
- Figure 8.28: Schneider Electric: Overall Financials, 2016-2018
- Figure 8.29: Schneider Electric: Net Revenue by Business Segment, 2016-2018
- Figure 8.30: Schneider Electric: Net Revenue by Regional Segment, 2016-2018
- Figure 8.31: Research and Development Investment: Schneider Electric – 2016 to 2018
- Figure 8.32: Schneider Electric: SWOT Analysis
- Figure 8.33: AutoGrid Systems, Inc: SWOT Analysis
- Figure 8.34: Enel X North America, Inc.: Net Revenue by Regional Segment, 2018
- Figure 8.35: Enel X North America, Inc.: SWOT Analysis
- Figure 8.36: Singapore Power Ltd.: Overall Financials, 2016-2018
- Figure 8.37: Singapore Power Ltd.: Net Revenue by Business Segment, 2016-2018
- Figure 8.38: Singapore Power Ltd.: Net Revenue by Regional Segment, 2016-2018

- Figure 8.39: Singapore Power Ltd.: SWOT Analysis
- Figure 8.40: Tenaga Nasional Berhad: SWOT Analysis
- Figure 8.41: IBM Corporation: Overall Financials, 2016-2018
- Figure 8.42: IBM Corporation: Net Revenue (by Business Segment), 2016-2018
- Figure 8.43: IBM Corporation: Net Revenue (by Regional Segment), 2016-2018
- Figure 8.44: IBM Corporation: R&D Expenditure, 2016-2018
- Figure 8.45: IBM Corporation: SWOT Analysis
- Figure 8.46: Oracle Corporation: Overall Financials, 2017-2019
- Figure 8.47: Oracle Corporation: Net Revenue by Business Segment, 2017-2019
- Figure 8.48: Oracle Corporation: Net Revenue by Regional Segment, 2017-2019
- Figure 8.49: Oracle Corporation: SWOT Analysis
- Figure 8.51: Fujitsu Limited: Net Revenue by Business Segment, 2017-2019
- Figure 8.52: Fujitsu Limited: Net Revenue by Regional Segment, 2017-2019
- Figure 8.53: Fujitsu Limited: SWOT Analysis
- Figure 8.54: Wipro Limited: Overall Financials, 2017-2019
- Figure 8.55: Wipro Limited: Net Revenue (by Business Segment), 2018-2019
- Figure 8.56: Wipro Limited: Net Revenue by (Regional Segment), 2018-2019
- Figure 8.57: Wipro Limited: SWOT Analysis
- Figure 8.58: Itron Inc: Overall Financials, 2016-2018
- Figure 8.59: Itron Inc.: Net Revenue by Business Segment, 2016-2018
- Figure 8.60: Itron Inc.: Net Revenue by Regional Segment, 2016-2018
- Figure 8.61: Itron: SWOT Analysis
- Figure 8.62: S&C Electric Company: SWOT Analysis
- Figure 8.63: Aclara Technologies LLC: SWOT Analysis
- Figure 8.64: Tantalus Systems Corp.: SWOT Analysis
- Figure 8.65: Landis+Gyr: Overall Financials, 2017-2019
- Figure 8.66: Landis+Gyr: Net Revenue (by Regional Segment), 2017-2019
- Figure 8.67: Landis+Gyr: SWOT Analysis
- Figure 8.68: Xylem Inc.: Overall Financials, 2016-2018
- Figure 8.69: Xylem Inc.: Net Revenue by Operating Segment, 2016-2018
- Figure 8.70: Xylem Inc.: Net Revenue by Regional Segment, 2016-2018
- Figure 8.71: Xylem: SWOT Analysis
- Figure 9.1: ASEAN Smart Grid Market Scope
- Figure 9.2: Report Methodology
- Figure 9.3: Primary Interviews Breakdown, by Company, Designation, and Region
- Figure 9.4: Sources of Secondary Research
- Figure 9.5: Data Triangulation
- Figure 9.6: Top-Down and Bottom-Up Approach for Market Estimation

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