

Global Virtual Power Plant Market: Focus on Source, Technology (Distributed Generation, Demand Response, Mixed Asset), End User (Industrial, Commercial, Residential), Stakeholder Analysis, and Regulatory Landscape – Analysis and Forecast, 2019-2024

<https://marketpublishers.com/r/G8B9DB998B53EN.html>

Date: June 2019

Pages: 231

Price: US\$ 5,000.00 (Single User License)

ID: G8B9DB998B53EN

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 with your request.

Key Questions Answered in the Report:

What is the global virtual power plant 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 revenue generated by different types of virtual power plants based on technologies such as demand response, distributed generation, and mixed assets?

What is the revenue generated by virtual power plant in different end users such as industrial, commercial, and residential at a global and regional level?

What is the market size and what are the various market opportunities of virtual power plant across different regions?

What are the major driving forces that are expected to increase the demand for the global virtual power plant market during the forecast period?

What are the emerging market trends and technologies global virtual power plant market?

What are the major challenges inhibiting the growth of the global virtual power plant market?

Who are the major stakeholders in terms of their contribution and impact in the virtual power plant ecosystem?

What kind of new strategies are adopted by the existing market players to expand their market position in the industry?

What is the competitive strength of the key players in the virtual power plant market on the basis of analysis of their recent developments, product offerings, and regional presence?

What is the regulatory landscape in different regions for virtual power plant?

Virtual Power Plant Market Forecast

According to a new market intelligence report by BIS Research titled 'Global Virtual Power Plant Market - Analysis and Forecast, 2019-2024', the virtual power plant market is expected to reach \$4,502.5 million by 2024. Market growth is expected to be driven by the gradually growing affinity for reducing the electricity demand as well as the rising concern for sustainable power generation.

High growth in the global market in the coming future is expected to be driven by rising awareness among governments of various countries about the need to mitigate power outages while also making attempts to preserve the environment. The growing awareness in the market concerning the opportunities in renewable energy and battery storage systems has stimulated large-scale investments in the sector over the last decade.

The increasing demand for power generation from renewable sources of energy across the globe has propelled the need for virtual power plants. Moreover, there is an increased concern for decentralized power generators in the electricity distribution supply chain to reduce the electricity demand. The growth of the market is likely to be

aided by an increasing demand for decentralized power generation, growing demand for renewable sources of energy, and favorable government initiatives to mitigate power outages.

Expert Quote on Global Virtual Power Plant Market

'Distributed generation, demand response, and mixed assets are the major technologies used by the virtual power plant solution providers for grid optimization and aggregation of distributed energy resources. In 2018, demand-response technology-based virtual power plant accounted for more than 60% of the total virtual power plant market. During the forecast period, mixed assets technology-based virtual power plant is expected to display the highest growth of 33.09% owing to the increasing concerns over continuous source of power supply for bidirectional flow of electricity.'

Scope of the Market Intelligent on the Global Virtual Power Plant Market

The virtual power plant market research provides a detailed perspective regarding the technologies used, its value and estimation, among others. The purpose of this market analysis is to examine the virtual power plant market in terms of factors driving the market, 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 contribution of the key players operating in the market. The virtual power plant market report is a compilation of different segments including market breakdown by source, technology, end user, and region.

Market Segmentation

The virtual power plant is based on various technologies which include demand response, distributed energy generation units, and mixed assets. Demand response accounted for the largest share in the market as a result of the increasing demand for continuous power supply worldwide. During the forecast period, mixed assets technology-based virtual power plant is expected to display the highest growth owing to the increasing demand for prosumers and bidirectional flow of electricity in the supply chain to meet the electricity demand.

The emerging trends of the virtual power plant market vary across different regions. In 2018, North America was at the forefront of the market, with huge market concentration

in the U.S. During the forecast period, Asia-Pacific region is expected to flourish as one of the most lucrative markets for virtual power plant. Rising demand for electricity generation from renewable energy sources and low grid strength drive the growth of the virtual power plant market. Regions such as South America and Africa are also expected to exhibit significant growth opportunities for virtual power plant due to the increased optimism in the economic conditions in these countries.

Key Companies in the Virtual Power Plant Market

The prominent players in the virtual power plant market include Schneider Electric, ABB Ltd, Cisco Systems, General Electric Company, and Siemens AG, Mitsubishi Electric Corporation, Hitachi Ltd, Tesla Inc., Itron Inc., Enel X North America, Next Kraftwerke, AutoGrid Systems Inc., Advanced Microgrid Solutions Inc., Enbala Power Networks, and energy & meteo systems.

Contents

EXECUTIVE SUMMARY

1 OVERVIEW: VIRTUAL POWER PLANT

- 1.1 Types of Virtual Power Plant Solutions
 - 1.1.1 Technical Virtual Power Plants (TVPP)
 - 1.1.2 Commercial Virtual Power Plants (CVPP)
- 1.2 Use Cases of Virtual Power Plant
 - 1.2.1 Energy Storage System Mechanism
 - 1.2.2 Demand-Response Control Mechanism
 - 1.2.3 Distributed Energy Resource Management
 - 1.2.4 Asset Remote Control Aggregator

2 MARKET DYNAMICS

- 2.1 Market Drivers
 - 2.1.1 Increasing Demand for Decentralized Power Generation
 - 2.1.2 Increasing Demand for Renewable Sources of Energy
 - 2.1.3 Favorable Government Initiatives
- 2.2 Market Restraints
 - 2.2.1 High Initial Investment
 - 2.2.2 Privacy and Security Risk
- 2.3 Market Opportunities
 - 2.3.1 Integration of Blockchain in Virtual Power Plant
 - 2.3.2 Emerging Market of Electric Vehicles
 - 2.3.3 Increasing Necessity for Smart Grids

3 COMPETITIVE LANDSCAPE

- 3.1 Key Market Developments and Strategies
 - 3.1.1 Partnerships, Collaborations, and Joint Venture
 - 3.1.2 Mergers and Acquisitions
 - 3.1.3 Product Launches and Developments
 - 3.1.4 Business Expansions and Contracts
 - 3.1.5 Others (Awards and Recognitions)
- 3.2 Competitive Positioning of Key Players in Virtual Power Plant Market
- 3.3 Competitive Benchmarking

- 3.3.1 By Technology
- 3.3.2 By End User
- 3.3.3 By Region

4 INDUSTRY ANALYSIS

- 4.1 Role of Internet of Things in Virtual Power Plant Market
- 4.2 Stakeholder Analysis
 - 4.2.1 Transmission System Operators
 - 4.2.2 Distribution System Operators
 - 4.2.3 Energy Management and Automation Companies
 - 4.2.4 Aggregators
 - 4.2.5 End Users (Industrial, Commercial, and Residential)
- 4.3 Emerging Trends in the Virtual Power Plant Market
 - 4.3.1 Growing Role of Big Data Analytics in the Power Industry
 - 4.3.2 Rise of Aggregators in the Ecosystem
 - 4.3.3 Market Consolidation
- 4.4 Investment and Funding Landscape
- 4.5 Regulatory Landscape
 - 4.5.1 North America
 - 4.5.1.1 U.S.
 - 4.5.1.2 Canada
 - 4.5.2 Europe
 - 4.5.2.1 Germany
 - 4.5.3 Asia-Pacific
 - 4.5.3.1 Australia
 - 4.5.3.2 China
- 4.6 Consortia and Associations

5 GLOBAL VIRTUAL POWER PLANT MARKET (BY SOURCE)

- 5.1 Assumptions and Limitations for Analysis and Forecast of the Global Virtual Power Plant Market
- 5.2 Market Overview
- 5.3 Distributed Energy Generation System
- 5.4 Energy Storage Systems

6 GLOBAL VIRTUAL POWER PLANT MARKET (BY TECHNOLOGY TYPE)

- 6.1 Market Overview
- 6.2 Demand Response
- 6.3 Distributed Generation
- 6.4 Mixed Asset

7 GLOBAL VIRTUAL POWER PLANT MARKET, (BY END USER)

- 7.1 Market Overview
- 7.2 Industrial
- 7.3 Commercial
- 7.4 Residential

8 GLOBAL VIRTUAL POWER PLANT MARKET (BY REGION)

- 8.1 North America
 - 8.1.1 North America (by End User)
 - 8.1.1.1 The U.S.
 - 8.1.1.2 Canada
 - 8.1.1.3 Rest-of-North America: Adoption Scenario
- 8.2 Europe
 - 8.2.1 Europe (by End User)
 - 8.2.2 Europe (by Country)
 - 8.2.2.1 U.K.
 - 8.2.2.2 Germany
 - 8.2.2.3 France
 - 8.2.2.4 Italy
 - 8.2.2.5 Denmark
 - 8.2.2.6 Rest –of- Europe
- 8.3 Asia-Pacific
 - 8.3.1 Asia-Pacific (by End User)
 - 8.3.2 Asia-Pacific (by Country)
 - 8.3.2.1 Japan
 - 8.3.2.2 Australia
 - 8.3.2.3 China
 - 8.3.2.4 South Korea
 - 8.3.2.5 Rest-of-Asia-Pacific
- 8.4 Rest-of-the-World (RoW)
 - 8.4.1 RoW (by End User)

9 COMPANY PROFILES

9.1 ABB Ltd

9.1.1 Company Overview

9.1.2 Role of ABB Ltd. in Virtual Power Plant Market

9.1.3 Financials

9.1.4 SWOT ANALYSIS

9.2 AutoGrid Systems, Inc

9.2.1 Company Overview

9.2.2 Role of Autogrid Systems, Inc in Virtual Power Plant Market

9.2.3 SWOT Analysis

9.3 Advanced Microgrid Solutions, Inc.

9.3.1 Company Overview

9.3.2 Role of Advanced Microgrid Solutions, Inc. in Virtual Power Plant Market

9.3.3 SWOT Analysis

9.4 CISCO Systems Inc.

9.4.1 Company Overview

9.4.2 Role of Cisco Systems Inc. in Virtual Power Plant Market

9.4.3 Financials

9.4.4 Key Insights about the Financial Health of the company

9.4.5 SWOT Analysis

9.5 energy & meteo systems

9.5.1 Company Overview

9.5.2 Role of energy &meteo systems In Virtual Power Plant Market

9.5.3 SWOT Analysis

9.6 Enbala Power Networks Inc.

9.6.1 Company Overview

9.6.2 Role of Enbala Power Networks Inc. in Virtual Power Plant Market

9.6.3 SWOT Analysis

9.7 Enel X North America, Inc.

9.7.1 Company Overview

9.7.2 Role of Enel X North America, Inc. in Virtual Power Plant Market

9.7.3 SWOT Analysis

9.8 General Electric

9.8.1 Company Overview

9.8.2 Role of General Electric in Virtual Power Plant Market

9.8.3 Financials

9.8.4 Key Insights about the Financial Health of the Company

9.8.5 SWOT Analysis

9.9 Hitachi, Ltd.

9.9.1 Company Overview

9.9.2 Role of Hitachi Ltd. in Virtual Power Plant Market

9.9.3 Financials

9.9.4 Key Insights about the Financials Health of the Company

9.9.5 SWOT Analysis

9.10 Itron Inc.

9.10.1 Company Overview

9.10.2 Role of Itron Inc. in Virtual Power Plant Market

9.10.3 Financials

9.10.4 SWOT ANALYSIS

9.11 Mitsubishi Electric Corporation

9.11.1 Company Overview

9.11.2 Role of Mitsubishi Electric Corporation in Virtual Power Plant Market

9.11.3 Financials

9.11.4 SWOT ANALYSIS

9.12 Next Kraftwerke

9.12.1 Company Overview

9.12.2 Role of Next Kraftwerke in Virtual Power Plant Market

9.12.3 SWOT Analysis

9.13 Siemens AG

9.13.1 Company Overview

9.13.2 Role of Siemens AG in Virtual Power Plant Market

9.13.3 Financials

9.13.4 SWOT Analysis

9.14 Schneider Electric

9.14.1 Company Overview

9.14.2 Role of Schneider Electric in Virtual Power Plant Market

9.14.3 Financials

9.14.4 Key Insights about the Financial Health of the company

9.14.5 SWOT Analysis

9.15 Tesla, Inc.

9.15.1 Company Overview

9.15.2 Role of Tesla Inc. in Virtual Power Plant Market

9.15.3 Financials

9.15.4 SWOT ANALYSIS

10 REPORT SCOPE AND METHODOLOGY

10.1 Report Scope

10.2 Virtual Power Plant Market Research Methodology

10.2.1 Assumptions

10.2.2 Limitations

10.2.3 Primary Data Sources

10.2.4 Secondary Data Sources

10.2.5 Data Triangulation

10.2.6 Market Estimation and Forecast

List Of Tables

LIST OF TABLES

- Table 1.1: Segregation of Virtual Power Plant by Different Types
- Table 1.2: Functions of Technical Virtual Power Plants
- Table 1.3: Key Players Providing Technical Virtual Power Plants
- Table 1.4: Entities of Commercial Virtual Power Plants
- Table 2.1: Impact Analysis of Drivers
- Table 2.2: List of Investors Promoting Decentralized Energy System
- Table 2.3: Levelized Cost of Electricity (LCOE) for Distributed Energy Sources
- Table 2.4: Initiatives by Governments of Various Countries to Promote Virtual Power Plants
- Table 2.5: Impact Analysis of Restraints
- Table 2.6: Initiatives for the Advancement of the U.S. Grid Network
- Table 3.1: Competitive Benchmarking of Aggregators in Virtual Power Plant Market
- Table 3.2: Competitive Benchmarking of Energy Management and Automation Companies in Virtual Power Plant Market
- Table 4.1: Overview of Stakeholder Analysis
- Table 4.2: List of Key European Transmission System Operators by Countries
- Table 4.3: Recent Developments by the Energy Management and Automation Companies in Virtual Power Plant Market
- Table 4.4: Key Features of Some of the Leading Aggregators
- Table 4.5: Opportunities of Big Data Analytics in Virtual Power Plants
- Table 4.6: Functions of Aggregators in the Electrical Ecosystem
- Table 4.7: Benefits of Demand Side Management
- Table 4.8: Venture Capital Investments in Virtual Power Plant Market
- Table 4.9: Key Regulatory Bodies in the U.S. Power Industry
- Table 4.10: Key Regulatory Bodies in Canada Power Industry
- Table 4.11: Key Regulatory Bodies in German Power Industry
- Table 4.12: Key Regulatory Bodies in the Australian Power Industry
- Table 4.13: Key Regulatory Bodies in the China Power Industry
- Table 4.14: Examples of Some Associations, and Consortiums
- Table 5.1: Global Virtual Power Plant Market (by Source), \$Million 2018-2024
- Table 5.2: Regulatory Policies to promote Distributed Generation
- Table 5.3: Applications of Energy Storage Systems in the Power Supply Network
- Table 6.1: Global Virtual Power Plant Market (by Technology), \$Million, 2018-2024
- Table 6.2: Features of Demand Response Mechanism for Virtual Power Plants
- Table 6.3: Demand Response Programs in the U.S.

Table 6.4: Key Players Providing Demand Response Virtual Power Plants

Table 6.5: Features and Advantages of Distributed Generation Technology for Virtual Power Plant

Table 6.6: Features of Mixed Assets Technology for Virtual Power Plant

Table 7.1: Global Virtual Power Plants Market (by End User), \$Million, 2018-2024

Table 7.2: Product Portfolio of Key Industrial Virtual Power Plants consumers

Table 8.1: Global Virtual Power Plant Market (by Region), 2018-2024, \$Million

Table 8.2: North America in Virtual Power Plant (by End User), 2018-2024, \$Million

Table 8.3: North America in Virtual Power Plant Market (by Country), 2018-2024, \$Million

Table 8.4: Demand-Response Programs in the U.S.

Table 8.5: Peak Demand Reduction in Various Demand-Response Programs

Table 8.6: Comparison of Electricity Prices during Peak and Off- Peak hours in Canada, 2018

Table 8.7: Europe Virtual Power Plant Market (by End User), 2018-2024, \$Million

Table 8.8: Europe Virtual Power Plants Market (by Country), 2018-2024, \$Million

Table 8.9: Comparison of Coal Consumption Across Various Sectors in 2016 and 2017

Table 8.10: Energy Efficient Investments made by Italian government pertaining to Residential and Industrial consumers

Table 8.11: Virtual Power Plant Installations in Italy

Table 8.12: Virtual Power Plant Installations by Key Players

Table 8.13: Asia-Pacific Virtual Power Plants Market (by End User), 2018-2024, \$Million

Table 8.14: Asia-Pacific Virtual Power Plants Market (by Country), 2018-2024, \$Million

Table 8.15: Virtual Power Plant Installations in Japan

Table 8.16: Australia Government Initiatives for Energy Conservation

Table 8.17: Virtual Power Plant Initiatives and Advancements in South Korea

Table 8.18: RoW Virtual Power Plant Market (by End User), 2018-2024, \$Million

Table 9.1: ABB Ltd.: Product Portfolio

Table 9.2: Autogrid Systems, Inc: Product Portfolio

Table 9.3: Advanced Microgrid Solutions Inc: Product Portfolio

Table 9.4: Cisco Systems Inc.: Product Portfolio

Table 9.5: energy & meteo systems: Product Portfolio

Table 9.6: Enbala Power Networks Inc.: Product Portfolio

Table 9.7: Enel X North America, Inc.: Product Portfolio

Table 9.8: General Electric: Product Portfolio

Table 9.9: Hitachi Ltd.: Product Portfolio

Table 9.10: Itron Inc.: Product Portfolio

Table 9.11: A: Product Portfolio

Table 9.12: Next Kraftwerke: Product Portfolio

Table 9.13: Siemens AG: Product Portfolio

Table 9.14: Schneider Electric: Product Portfolio

Table 9.15: Tesla Inc.: Product Portfolio

List Of Figures

LIST OF FIGURES

- Figure 1: Technological Transformation of the Power Industry
- Figure 2: Factors Affecting the Global Virtual Power Plant Market
- Figure 3: Global Virtual Power Plant Market Snapshot
- Figure 4: Global Virtual Power Plant Market (by Source Type), 2019-2024, (\$Million)
- Figure 5: Global Virtual Power Plant Market by End User, 2019 and 2024
- Figure 6: Regional Virtual Power Plant Market Snapshot
- Figure 1.1: Functions of Commercial Virtual Power Plants
- Figure 1.2: Energy Storage System Mechanism
- Figure 1.3: Demand-Response Control Mechanism
- Figure 1.4: Distributed Energy Resource Management
- Figure 1.5: Asset Remote Control Aggregator
- Figure 2.1: Market Dynamics
- Figure 2.2: Advantages of Using Blockchain in Virtual Power Plant
- Figure 3.1: Strategies Adopted by the Key Players (January 2016 – April 2019)
- Figure 3.2: Share of Key Market Strategies and Developments (January 2016 – April 2019)
- Figure 3.3: Partnerships, Collaborations, and Joint Ventures Share (by Companies)
- Figure 3.4: Mergers and Acquisitions Share (by Companies)
- Figure 3.5: Product Launches and Developments Share (by Companies)
- Figure 3.6: Business Expansions and Contracts Share (by Companies)
- Figure 3.7: Competitive Positioning of Market Players
- Figure 3.8: Virtual Power Plant Technologies Provided by the Virtual Power Plant Players
- Figure 3.9: End Users Catered by Virtual Power Plant Players
- Figure 4.1: IoT-Enabled Virtual Power Plant
- Figure 4.2: Key Stakeholders of Virtual Power Plant Market
- Figure 4.3: Role of Distribution System Operator due to the Deployment of Distributed Energy Resources
- Figure 4.4: Market Strategies and Offering by Aggregators
- Figure 4.5: Application of Virtual Power Plant for Residential, Commercial, and Industrial End Users
- Figure 4.6: Advantages of Using Big Data Analytics for Virtual Power Plant
- Figure 4.7: Leading Aggregators in Different Countries
- Figure 4.8: Investments in Virtual Power Plant Sector
- Figure 5.1: Overview of a Virtual Power Plant

Figure 5.2: Distributed Energy Generation System in Virtual Power Plants Market, 2018-2024

Figure 5.3: Energy Storage Systems in Virtual Power Plant Market, 2018-2024

Figure 6.1: Benefits of Different Technology-Based Virtual Power Plant

Figure 6.2: Demand Response Technology-Based Virtual Power Plant Market, 2018-2024

Figure 6.3: Distributed Generation Technology-Based Virtual Power Plants Market, 2018-2024

Figure 6.4: Operation of Mixed Assets Technology-Based Virtual Power Plant

Figure 6.5: Mixed Asset Technology-Based Virtual Power Plants Market, 2018-2024

Figure 7.1: Major End Users for Virtual Power Plants

Figure 7.2: Virtual Power Plant Market for Industrial Sector, 2018-2024

Figure 7.3: Commercial Virtual Power Plant Market, 2018-2024

Figure 7.4: Overview of Residential Virtual Power Plant

Figure 7.5: Residential Virtual Power Plants Market, 2018-2024

Figure 8.1: Global Virtual Power Plant Regional Market Snapshot

Figure 8.2: North America Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.3: U.S. Electricity Generation (by Sector) in 2018

Figure 8.4: The U.S. Virtual Power Plants Market, 2018-2024, \$Million

Figure 8.5: Energy Mix of Canada, 2016

Figure 8.6: Canada Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.7: Europe Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.8: The U.K. Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.9: Germany Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.10: Energy Mix of France, 2018

Figure 8.11: France Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.12: Italy Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.13: Denmark Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.14: Rest-of-Europe in Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.15: Asia-Pacific Virtual Power Plants Market, 2018-2024, \$Million

Figure 8.16: Japan Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.17: Australia in Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.18: China Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.19: South Korea Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.20: Rest-of-Asia-Pacific Virtual Power Plant Market, 2018-2024, \$Million

Figure 8.21: RoW Virtual Power Plants Market, 2018-2024, \$Million

Figure 9.1: Segmentation of Key Companies Profiled

Figure 9.2: ABB Ltd: Overall Financials, 2016-2018

Figure 9.3: ABB Ltd.: Net Revenue by Operating Segment, 2016-2018

- Figure 9.4: ABB Ltd.: Net Revenue by Regional Segment, 2016-2018
- Figure 9.5: ABB Ltd.: SWOT Analysis
- Figure 9.6: Autogrid Systems, Inc: SWOT Analysis
- Figure 9.7: Advanced Microgrid Solutions: SWOT Analysis
- Figure 9.8: Cisco Systems Inc.: Overall Financials, 2016-2018
- Figure 9.9: Cisco Systems Inc.: Net Revenue by Business Segment, 2016-2018
- Figure 9.10: Cisco Systems: Net Revenue (by Region), 2016-2018
- Figure 9.11: Research and Development: Cisco Systems – 2016 to 2018
- Figure 9.12: Cisco Systems Inc.: SWOT Analysis
- Figure 9.13: energy & meteo systems: SWOT Analysis
- Figure 9.14: Enbala Power Networks Inc.: SWOT Analysis
- Figure 9.15: Enel X North America, Inc.: Net Revenue by Regional Segment, 2018
- Figure 9.16: Enel X North America, Inc.: SWOT Analysis
- Figure 9.17: General Electric: Overall Financials, 2016-2018
- Figure 9.18: General Electric: Net Revenue by Business Segment, 2016-2018
- Figure 9.19: General Electric: Net Revenue by Regional Segment, 2016-2018
- Figure 9.20: General Electric: Research and Development: 2016-2018
- Figure 9.21: General Electric: SWOT Analysis
- Figure 9.22: Hitachi: Overall Financials, 2015-2017
- Figure 9.23: Hitachi Ltd.: Net Revenue by Operating Segment 2015-2017
- Figure 9.24: Hitachi Ltd.: Net Revenue by Regional Segment 2015-2017
- Figure 9.25: Research and Development-2015 to 2017
- Figure 9.26: Hitachi Ltd.: SWOT Analysis
- Figure 9.27: Itron Inc: Overall Financials, 2015-2017
- Figure 9.28: Itron Inc.: Net Revenue by Operating Segment, 2015-2017
- Figure 9.29: Itron Inc.: Net Revenue by Regional Segment, 2015-2017
- Figure 9.30: Itron: SWOT Analysis
- Figure 9.31: Mitsubishi Electric Corporation: Overall Financials, 2016-2018
- Figure 9.32: Mitsubishi Electric Corporation.: Net Revenue by Operating Segment, 2016-2018
- Figure 9.33: Mitsubishi Electric Corporation.: Net Revenue by Regional Segment, 2016-2018
- Figure 9.34: Mitsubishi Electric Corporation: SWOT Analysis
- Figure 9.35: Next Kraftwerke: SWOT Analysis
- Figure 9.36: Siemens AG: Overall Financials, 2016-2018
- Figure 9.37: Siemens AG: SWOT Analysis
- Figure 9.38: Schneider Electric: Overall Financials, 2016-2018
- Figure 9.39: Schneider Electric: Net Revenue by Business Segment, 2016-2018
- Figure 9.40: Schneider Electric: Net Revenue by Regional Segment, 2016-2018

- Figure 9.41: Research and Development: Schneider Electric – 2016 to 2018
- Figure 9.42: Schneider Electric: SWOT Analysis
- Figure 9.43: Tesla Inc.: Overall Financials, 2016-2018
- Figure 9.44: Tesla Inc.: Net Revenue by Operating Segment, 2016-2018
- Figure 9.45: Tesla Inc.: SWOT Analysis
- Figure 10.1: Virtual Power Plant Market Scope
- Figure 10.2: Report Methodology
- Figure 10.3: Primary Interviews Breakdown, by Company, Designation and Region
- Figure 10.4: Sources of Secondary Research
- Figure 10.5: Data Triangulation
- Figure 10.6: Top-Down Bottom-Up Approach for Market Estimation

I would like to order

Product name: Global Virtual Power Plant Market: Focus on Source, Technology (Distributed Generation, Demand Response, Mixed Asset), End User (Industrial, Commercial, Residential), Stakeholder Analysis, and Regulatory Landscape – Analysis and Forecast, 2019-2024

Product link: <https://marketpublishers.com/r/G8B9DB998B53EN.html>

Price: US\$ 5,000.00 (Single User License / Electronic Delivery)

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

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G8B9DB998B53EN.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