

## **Virtual Power Plant Market: Global Industry Analysis, Trends, Market Size, and Forecasts up to 2032**

Market Report | 2025-03-31 | 300 pages | Infinium Global Research and Consulting Solutions

### **AVAILABLE LICENSES:**

- 1-5 User \$4795.00
- Enterprise \$7195.00

### **Report description:**

The report on the global virtual power plant market provides qualitative and quantitative analysis for the period from 2022-2032. The global virtual power plant market was valued at USD 1,852.9 million in 2023 and is expected to reach USD 10,128.9 million in 2032, with a CAGR of 22.06% during the forecast period 2024-2032. The study on virtual power plant market covers the analysis of the leading geographies such as North America, Europe, Asia Pacific, and RoW for the period of 2022-2032.

The report on virtual power plant market is a comprehensive study and presentation of drivers, restraints, opportunities, demand factors, market size, forecasts, and trends in the global virtual power plant market over the period of 2022-2032. Moreover, the report is a collective presentation of primary and secondary research findings.

Porter's five forces model in the report provides insights into the competitive rivalry, supplier and buyer positions in the market and opportunities for the new entrants in the global virtual power plant market over the period of 2022-2032. Further, IGR- Growth Matrix given in the report brings an insight into the investment areas that existing or new market players can consider.

### **Report Findings**

#### **1) Drivers**

- The global shift towards clean, renewable, and sustainable energy sources is driving market growth.
- Supportive government regulations and incentives are propelling the market expansion.
- Rising demand for grid stability and resilience is fostering the expansion of the virtual power plant market.

#### **2) Restraints**

- High initial investment and deployment costs are hampering the virtual power plant market expansion.
- Grid congestion and infrastructure limitations are hindering virtual power plant market growth.

#### **3) Opportunities**

- Advancements in AI and IoT are expected to create lucrative opportunities in the market in the coming years.
- 5G-powered real-time energy optimization is expected to unlock lucrative market opportunities in the coming years.

### **Research Methodology**

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

#### A) Primary Research

Our primary research involves extensive interviews and analysis of the opinions provided by the primary respondents. The primary research starts with identifying and approaching the primary respondents, the primary respondents are approached include

1. Key Opinion Leaders associated with Infinium Global Research
2. Internal and External subject matter experts
3. Professionals and participants from the industry

Our primary research respondents typically include

1. Executives working with leading companies in the market under review
2. Product/brand/marketing managers
3. CXO level executives
4. Regional/zonal/ country managers
5. Vice President level executives.

#### B) Secondary Research

Secondary research involves extensive exploring through the secondary sources of information available in both the public domain and paid sources. At Infinium Global Research, each research study is based on over 500 hours of secondary research accompanied by primary research. The information obtained through the secondary sources is validated through the crosscheck on various data sources.

The secondary sources of the data typically include

1. Company reports and publications
2. Government/institutional publications
3. Trade and associations journals
4. Databases such as WTO, OECD, World Bank, and among others.
5. Websites and publications by research agencies

#### Segment Covered

The global virtual power plant market is segmented on the basis of component, source, offering, and end user.

#### The Global Virtual Power Plant Market by Component

- Distributed Generation
- Demand Response
- Mixed Asset

#### The Global Virtual Power Plant Market by Source

- Storage
- Renewable Energy
- Cogeneration

#### The Global Virtual Power Plant Market by Offering

- Software
- Hardware
- Services

#### The Global Virtual Power Plant Market by End User

- Industrial
- Residential
- Commercial

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

## Company Profiles

The companies covered in the report include

- ABB
- Siemens AG
- Uplight, Inc.
- Stem, Inc.
- ENGIE
- Schneider Electric
- Tesla, Inc.
- Hitachi Energy Ltd.
- Next Kraftwerke
- Statkraft

## What does this Report Deliver?

1. Comprehensive analysis of the global as well as regional markets of the virtual power plant market.
2. Complete coverage of all the segments in the virtual power plant market to analyze the trends, developments in the global market and forecast of market size up to 2032.
3. Comprehensive analysis of the companies operating in the global virtual power plant market. The company profile includes analysis of product portfolio, revenue, SWOT analysis and latest developments of the company.
4. IGR- Growth Matrix presents an analysis of the product segments and geographies that market players should focus to invest, consolidate, expand and/or diversify.

## Table of Contents:

### Table of Content

#### Chapter 1. Preface

- 1.1. Report Description
- 1.2. Research Methods
- 1.3. Research Approaches

#### Chapter 2. Executive Summary

- 2.1. Virtual Power Plant Market Highlights
- 2.2. Virtual Power Plant Market Projection
- 2.3. Virtual Power Plant Market Regional Highlights

#### Chapter 3. Global Virtual Power Plant Market Overview

- 3.1. Introduction
- 3.2. Market Dynamics
  - 3.2.1. Drivers
  - 3.2.2. Restraints
  - 3.2.3. Opportunities
- 3.3. Porter's Five Forces Analysis
- 3.4. IGR-Growth Matrix Analysis
  - 3.4.1. IGR-Growth Matrix Analysis by Component
  - 3.4.2. IGR-Growth Matrix Analysis by Source

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 3.4.3. IGR-Growth Matrix Analysis by Offering
- 3.4.4. IGR-Growth Matrix Analysis by End User
- 3.4.5. IGR-Growth Matrix Analysis by Region
- 3.5. Value Chain Analysis of Virtual Power Plant Market

## Chapter 4. Virtual Power Plant Market Macro Indicator Analysis

## Chapter 5. Company Profiles and Competitive Landscape

- 5.1. Competitive Landscape in the Global Virtual Power Plant Market
- 5.2. Companies Profiles
  - 5.2.1. ABB
  - 5.2.2. Siemens AG
  - 5.2.3. Uplight, Inc.
  - 5.2.4. Stem, Inc.
  - 5.2.5. ENGIE
  - 5.2.6. Schneider Electric
  - 5.2.7. Tesla, Inc.
  - 5.2.8. Hitachi Energy Ltd.
  - 5.2.9. Next Kraftwerke
  - 5.2.10. Statkraft

## Chapter 6. Global Virtual Power Plant Market by Component

- 6.1. Distributed Generation
- 6.2. Demand Response
- 6.3. Mixed Asset

## Chapter 7. Global Virtual Power Plant Market by Source

- 7.1. Storage
- 7.2. Renewable Energy
- 7.3. Cogeneration

## Chapter 8. Global Virtual Power Plant Market by Offering

- 8.1. Software
- 8.2. Hardware
- 8.3. Services

## Chapter 9. Global Virtual Power Plant Market by End User

- 9.1. Industrial
- 9.2. Residential
- 9.3. Commercial

## Chapter 10. Global Virtual Power Plant Market by Region 2024-2032

- 10.1. North America
  - 10.1.1. North America Virtual Power Plant Market by Component
  - 10.1.2. North America Virtual Power Plant Market by Source
  - 10.1.3. North America Virtual Power Plant Market by Offering
  - 10.1.4. North America Virtual Power Plant Market by End User

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 10.1.5. North America Virtual Power Plant Market by Country
  - 10.1.5.1. The U.S. Virtual Power Plant Market
    - 10.1.5.1.1. The U.S. Virtual Power Plant Market by Component
    - 10.1.5.1.2. The U.S. Virtual Power Plant Market by Source
    - 10.1.5.1.3. The U.S. Virtual Power Plant Market by Offering
    - 10.1.5.1.4. The U.S. Virtual Power Plant Market by End User
  - 10.1.5.2. Canada Virtual Power Plant Market
    - 10.1.5.2.1. Canada Virtual Power Plant Market by Component
    - 10.1.5.2.2. Canada Virtual Power Plant Market by Source
    - 10.1.5.2.3. Canada Virtual Power Plant Market by Offering
    - 10.1.5.2.4. Canada Virtual Power Plant Market by End User
  - 10.1.5.3. Mexico Virtual Power Plant Market
    - 10.1.5.3.1. Mexico Virtual Power Plant Market by Component
    - 10.1.5.3.2. Mexico Virtual Power Plant Market by Source
    - 10.1.5.3.3. Mexico Virtual Power Plant Market by Offering
    - 10.1.5.3.4. Mexico Virtual Power Plant Market by End User
- 10.2. Europe
  - 10.2.1. Europe Virtual Power Plant Market by Component
  - 10.2.2. Europe Virtual Power Plant Market by Source
  - 10.2.3. Europe Virtual Power Plant Market by Offering
  - 10.2.4. Europe Virtual Power Plant Market by End User
  - 10.2.5. Europe Virtual Power Plant Market by Country
    - 10.2.5.1. Germany Virtual Power Plant Market
      - 10.2.5.1.1. Germany Virtual Power Plant Market by Component
      - 10.2.5.1.2. Germany Virtual Power Plant Market by Source
      - 10.2.5.1.3. Germany Virtual Power Plant Market by Offering
      - 10.2.5.1.4. Germany Virtual Power Plant Market by End User
    - 10.2.5.2. United Kingdom Virtual Power Plant Market
      - 10.2.5.2.1. United Kingdom Virtual Power Plant Market by Component
      - 10.2.5.2.2. United Kingdom Virtual Power Plant Market by Source
      - 10.2.5.2.3. United Kingdom Virtual Power Plant Market by Offering
      - 10.2.5.2.4. United Kingdom Virtual Power Plant Market by End User
    - 10.2.5.3. France Virtual Power Plant Market
      - 10.2.5.3.1. France Virtual Power Plant Market by Component
      - 10.2.5.3.2. France Virtual Power Plant Market by Source
      - 10.2.5.3.3. France Virtual Power Plant Market by Offering
      - 10.2.5.3.4. France Virtual Power Plant Market by End User
    - 10.2.5.4. Rest of Europe Virtual Power Plant Market
      - 10.2.5.4.1. Rest of Europe Virtual Power Plant Market by Component
      - 10.2.5.4.2. Rest of Europe Virtual Power Plant Market by Source
      - 10.2.5.4.3. Rest of Europe Virtual Power Plant Market by Offering
      - 10.2.5.4.4. Rest of Europe Virtual Power Plant Market by End User
- 10.3. Asia Pacific
  - 10.3.1. Asia Pacific Virtual Power Plant Market by Component
  - 10.3.2. Asia Pacific Virtual Power Plant Market by Source
  - 10.3.3. Asia Pacific Virtual Power Plant Market by Offering
  - 10.3.4. Asia Pacific Virtual Power Plant Market by End User

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

- 10.3.5. Asia Pacific Virtual Power Plant Market by Country
  - 10.3.5.1. China Virtual Power Plant Market
    - 10.3.5.1.1. China Virtual Power Plant Market by Component
    - 10.3.5.1.2. China Virtual Power Plant Market by Source
    - 10.3.5.1.3. China Virtual Power Plant Market by Offering
    - 10.3.5.1.4. China Virtual Power Plant Market by End User
  - 10.3.5.2. Japan Virtual Power Plant Market
    - 10.3.5.2.1. Japan Virtual Power Plant Market by Component
    - 10.3.5.2.2. Japan Virtual Power Plant Market by Source
    - 10.3.5.2.3. Japan Virtual Power Plant Market by Offering
    - 10.3.5.2.4. Japan Virtual Power Plant Market by End User
  - 10.3.5.3. India Virtual Power Plant Market
    - 10.3.5.3.1. India Virtual Power Plant Market by Component
    - 10.3.5.3.2. India Virtual Power Plant Market by Source
    - 10.3.5.3.3. India Virtual Power Plant Market by Offering
    - 10.3.5.3.4. India Virtual Power Plant Market by End User
  - 10.3.5.4. Rest of Asia-Pacific Virtual Power Plant Market
    - 10.3.5.4.1. Rest of Asia-Pacific Virtual Power Plant Market by Component
    - 10.3.5.4.2. Rest of Asia-Pacific Virtual Power Plant Market by Source
    - 10.3.5.4.3. Rest of Asia-Pacific Virtual Power Plant Market by Offering
    - 10.3.5.4.4. Rest of Asia-Pacific Virtual Power Plant Market by End User
- 10.4. RoW
  - 10.4.1. RoW Virtual Power Plant Market by Component
  - 10.4.2. RoW Virtual Power Plant Market by Source
  - 10.4.3. RoW Virtual Power Plant Market by Offering
  - 10.4.4. RoW Virtual Power Plant Market by End User
  - 10.4.5. RoW Virtual Power Plant Market by Sub-region
    - 10.4.5.1. Latin America Virtual Power Plant Market
      - 10.4.5.1.1. Latin America Virtual Power Plant Market by Component
      - 10.4.5.1.2. Latin America Virtual Power Plant Market by Source
      - 10.4.5.1.3. Latin America Virtual Power Plant Market by Offering
      - 10.4.5.1.4. Latin America Virtual Power Plant Market by End User
    - 10.4.5.2. Middle East Virtual Power Plant Market
      - 10.4.5.2.1. Middle East Virtual Power Plant Market by Component
      - 10.4.5.2.2. Middle East Virtual Power Plant Market by Source
      - 10.4.5.2.3. Middle East Virtual Power Plant Market by Offering
      - 10.4.5.2.4. Middle East Virtual Power Plant Market by End User
    - 10.4.5.3. Africa Virtual Power Plant Market
      - 10.4.5.3.1. Africa Virtual Power Plant Market by Component
      - 10.4.5.3.2. Africa Virtual Power Plant Market by Source
      - 10.4.5.3.3. Africa Virtual Power Plant Market by Offering
      - 10.4.5.3.4. Africa Virtual Power Plant Market by End User

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: [support@scotts-international.com](mailto:support@scotts-international.com)

[www.scotts-international.com](http://www.scotts-international.com)

## Virtual Power Plant Market: Global Industry Analysis, Trends, Market Size, and Forecasts up to 2032

Market Report | 2025-03-31 | 300 pages | Infinium Global Research and Consulting Solutions

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

### ORDER FORM:

Select license	License	Price
	1-5 User	\$4795.00
	Enterprise	\$7195.00
		VAT
		Total

\*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

☐\*\* VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>
Zip Code*	<input type="text"/>	Country*	<input type="text"/>
		Date	<input type="text" value="2025-05-09"/>
		Signature	<input type="text"/>

**Scotts International. EU Vat number: PL 6772247784**

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com