

# Global Oil and Gas Development Electrification Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Oil and Gas Development Electrification market size is expected to reach \$ 4343 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

Oil and Gas Development Electrification (OED) refers to the systematic technological transformation of equipment in offshore oil and gas platforms, onshore well sites, and fracturing fleets that traditionally rely on diesel or natural gas turbines for power, replacing traditionally diesel or natural gas turbine-driven equipment with new power sources powered by the grid or renewable energy. Its core lies in introducing onshore grid access, microgrid interconnection between platforms, and associated gas power generation to replace on-site fossil fuel combustion, providing power for key equipment such as electrically driven compressors, electric submersible pumps (ESPs), and electrically driven fracturing skids. This process deeply integrates intelligent power distribution and digital twin technologies, aiming to eliminate nitrogen oxide emissions at the source, significantly reduce fuel consumption and operational noise, and improve automation levels. It is a core path to achieving energy conservation, emission reduction, cost reduction, and efficiency improvement in the oil and gas industry.

The Oil and Gas Development Electrification industry is currently at a critical stage of accelerating its transition from localized pilot projects to large-scale applications. Driven by both carbon emission reduction pressures and the need for cost reduction and efficiency improvement in shale oil and gas, technologies such as electrically driven fracturing, ESPs, and onshore power access for platforms have been deployed on a large scale in major North American shale oil and gas producing areas and offshore oil and gas fields in the Bohai and South China Seas of China. The core trend in the industry is the integration of 'source-grid-load-storage,' which involves the deep

integration of new energy power generation, smart microgrids, and energy storage systems to build an independent power supply system for oilfield clusters. Despite challenges such as lagging grid infrastructure in remote well sites and high initial investment, electrification has become the core path to achieving low-carbon transformation and intelligent upgrading in the oil and gas industry.

This report studies the global Oil and Gas Development Electrification demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Oil and Gas Development Electrification, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Oil and Gas Development Electrification that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Oil and Gas Development Electrification total market, 2021-2032, (USD Million)

Global Oil and Gas Development Electrification total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Oil and Gas Development Electrification total market, key domestic companies, and share, (USD Million)

Global Oil and Gas Development Electrification revenue by player, revenue and market share 2021-2026, (USD Million)

Global Oil and Gas Development Electrification total market by Type, CAGR, 2021-2032, (USD Million)

Global Oil and Gas Development Electrification total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Oil and Gas Development Electrification market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include ABB, Aker BP, Beusa Energy, Chevron &

ExxonMobil, Decker Electric, Equinor, Hitachi Energy, Industrial Service Solutions (ISS), Shell, Siemens, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Oil and Gas Development Electrification market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Oil and Gas Development Electrification Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Oil and Gas Development Electrification Market, Segmentation by Type:

Grid Connection Electrification

Self-Owned Power Generation Electrification

Energy Storage for Peak Shaving Electrification

Global Oil and Gas Development Electrification Market, Segmentation by Power Grid:

Microgrid

Group Power Grid

Shore Power Access System

Global Oil and Gas Development Electrification Market, Segmentation by Application:

Onshore Oil and Gas

Shale Oil and Gas

Offshore Oil and Gas

Companies Profiled:

ABB

Aker BP

Beusa Energy

Chevron & ExxonMobil

Decker Electric

Equinor

Hitachi Energy

Industrial Service Solutions (ISS)

Shell

Siemens

SLB

TotalEnergies

#### Key Questions Answered

1. How big is the global Oil and Gas Development Electrification market?
2. What is the demand of the global Oil and Gas Development Electrification market?
3. What is the year over year growth of the global Oil and Gas Development Electrification market?
4. What is the total value of the global Oil and Gas Development Electrification market?
5. Who are the Major Players in the global Oil and Gas Development Electrification market?
6. What are the growth factors driving the market demand?

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