IHS TECHNOLOGY

Grid-Connected Energy Storage Report

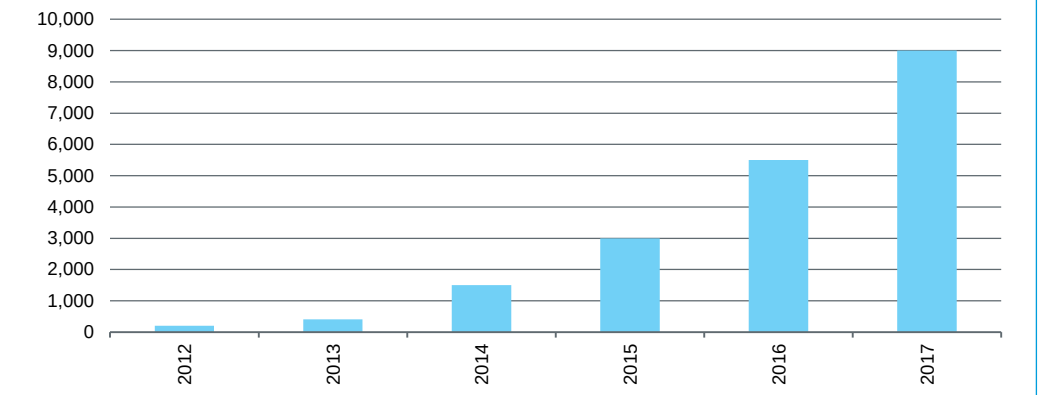
Sam Wilkinson, Research Director

2015

The Grid-Connected Energy Storage report is the first detailed report on the business case and the potential for grid-connected energy storage. It provides analysis and forecasts for the global market for grid-connected energy storage solutions (GCESS) in all applications, including five- and ten-year forecasts.

The report leverages IHS' industry leading energy, power and renewables market research and over 30 hours of interviews with key industry personnel. Written analysis and full explanations of drivers and barriers affecting the market are included. Competing energy storage technologies and the existing supplier base to this industry is also explored, and alternative storage technologies that have the potential to penetrate this market are evaluated.

Global Market for Grid-Connected Energy Storage ($M) - NOT REAL DATA



The user of this report will be able to address multiple needs including: market sizing, growth potential, and understanding the dynamics in the energy storage market and the drivers and barriers affecting each market segment.

Key Issues Addressed

- What are the drivers for the adoption of grid-connected energy storage?
- Will energy storage installations be driven by financial incentives, regulatory drivers or by a business case?
- What functions can an energy storage solution provide in a grid-connected application?
- How much energy storage will be installed in each grid interconnection location?
- How much energy storage will be installed in each key region?
- What energy storage technologies will be installed in grid-connected applications?
- How will the prices of energy storage systems develop, and how will this affect its use?
- What are the barriers for the adoption of grid-connected energy storage?

Applicable To

- Existing suppliers of energy storage components and products that can capitalize on new opportunities
- New suppliers to this industry including start-up companies who are looking to gain an overview of the industry and plan their entry into this market
- Utilities and policy makers looking to understand the benefits and impacts of storage
- Renewable developers looking to manage their projects by incorporating storage
- Energy storage system integrators looking to understand storage requirements and applications
- Investors looking to understand the current and future market conditions of the industry

Actuals and Forecast

Frequency, Time Period

- 5 and 10 Year Annual Forecasts (2012- 2022)

Measures

- Energy Storage Installations by Power Rating (MW and GW)
- Energy Storage Installations by Storage Capacity (kWh and GWh)
- System Pricing ($/W and $/kWh)
- Revenues ($)

Regions, Markets

- **EMEA**

  Germany, Italy, UK, Rest of Europe, Africa, Middle-East
- **Americas**

  USA, Canada, Central & South America
- **Asia**

  China, Japan, India, Australia, Rest of Asia

Grid Interconnection Locations Covered

- Behind-the-Meter
- In the Grid
- Co-Located (Conventional)
- Co-Located (Renewables)

Technologies Covered

- Batteries (Li-Ion, Lead-Acid, Sodium Nickel Chloride, Sodium Sulphur, Flow)
- Mechanical Storage (Flywheels, Alternative Compressed Air)
- Alternative Technologies Profiled (Pumped Storage Hydroelectricity, Traditional Compressed Air, Ultra Capacitors, Power-to-Gas)

Deliverables

- PDF PowerPoint
- Excel File Containing Tables

Lead Analyst

Sam Wilkinson – Research Director

Sam Wilkinson is a manager for the power & energy group at IHS, leading its research on the PV inverter, BOS and energy storage markets.

During his time working within the group, Sam has also been responsible for researching the PV module and polysilicon supply chain, working closely with leading global suppliers to develop detailed analysis on these markets. Sam has also been responsible for establishing primary research reports focusing on solar demand and policy, complementing IHS' extensive research of the complete PV supply chain. Building on his experience in the solar research team, Sam established and now leads IHS Technology's coverage of energy storage, covering a wide range of topics within this fast developing sector.

Sam's analysis and commentary is regularly published by leading PV and energy industry media, and also the global press. He has also presented at many leading industry events and conferences.

Before beginning his career at IHS, Sam worked as a structural engineer for one of Europe's leading engineering firms.

He graduated from The University of Nottingham with a degree in Engineering.

About IHS

IHS (NYSE: IHS) is the leading source of information, insight and analytics in critical areas that shape today's business landscape. Businesses and governments in more than 165 countries around the globe rely on the comprehensive content, expert independent analysis and flexible delivery methods of IHS to make high-impact decisions and develop strategies with speed and confidence. IHS has been in business since 1959 and became a publicly traded company on the New York Stock Exchange in 2005. Headquartered in Englewood, Colorado, USA, IHS is committed to sustainable, profitable growth and employs 8,000 people in 31 countries around the world.

(Sample) Table of Contents