

Generators Research Package

Advance your competitive position by leveraging IHS Markit's critical insight on the changing generators market



In the current economic climate, making the right decision is crucial. In an ever changing market, utilizing proper guidance is paramount. This five-database generators research package is the first of its kind, and offers coverage into at least seven different market segments and three major regions. Five year forecasting by market segment aids educated decisions yielding future rewards.

Five databases are offered for individual or joint purchase:

- Low Power Generators
- Medium Power Generators
- High Power Generators
- Wind Generators
- Generators Sets

Each database in the research package provides an in-depth view into market sizing, market shares and forecasts with online data access.

BENEFITS

- Comprehensive market statistics by region and country
- Competitive market shares (global and by major region)
- Vast number of segmentations including: prime mover, power rating, sales channel, speed (number of poles), industry, duty rating, cooling type, and frequency
- Insight on the impact of product developments, government legislation and economic climate
- 5 year forecast

TIMELINE FOR DELIVERY

November 2016: Wind Generators

July 2017: Generator Sets

November 2017:

Low Power Generators, Medium Power Generators, High Power Generators

Deliverables for each database include: Excel based data sets, PDF trends analysis and access to analyst.



Low Power Generators Database

EMEA			AMERICAS	APAC	
Africa Austria & Switzerland Benelux Central & Eastern Europe France	Germany Italy Middle East Nordic Countries Poland	Russian Fed. & CIS Spain & Portugal Turkey UK & Ireland	Brazil Canada Mexico United States Rest of Latin America	China India Japan	Oceania South Korea Rest of Asia

_	_		_
-		_	-
_	_	_	
_	_	_	_

2 poles (3000 - 3600 rpm) 4 poles (1500 -1800 rpm) 6 poles (1000 - 1200 rpm) 8 poles (750 - 900 rpm) 10 poles (600 - 720 rpm) 12 poles (500 - 600 rpm) 14 poles (428 - 514 rpm) Above 14 poles

PRIME MOVER

Reciprocating Engine

- Diesel
- Gas

Gas Turbine Steam Turbine Hydro Turbine

POWER RATING

5 - 15 kVA >15 - 35 kVA >35 - 75 kVA >75 - 375 kVA >375 - 750 kVA

>750 - <1,000 kVA

FREQUENCY

50 Hz 60 Hz

DUTY RATING

Emergency Standby Continuous Prime Power

INDUSTRY SECTOR

Agriculture
Biomass
Cogeneration (CHP)
Commercial Building
Data Center
Infrastructure

Lighting
Marine & Shipbuilding
Military & Aerospace
Marine
Oil & Gas
- Oil & Gas: Upstream

Oil & Gas: MidstreamOil & Gas: DownstreamPowerOther Industries

SALES CHANNEL

Direct to End-User
Direct to EPC
Direct to OEM
Direct to Systems Integrator
Via Distribution/Partner



Medium Power Generators Database

EMEA			AMERICAS	APAC	
Africa Austria & Switzerland Benelux Central & Eastern Europe France	Germany Italy Middle East Nordic Countries Poland	Russian Fed. & CIS Spain & Portugal Turkey UK & Ireland	Brazil Canada Mexico United States Rest of Latin America	China India Japan	Oceania South Korea Rest of Asia

	_	_	_	_
	п	=	_	
-	P	_	_	
-	-			
-	-	_	_	_

2 poles (3000 - 3600 rpm) 4 poles (1500 -1800 rpm) 6 poles (1000 - 1200 rpm) 8 poles (750 - 900 rpm) 10 poles (600 - 720 rpm) 12 poles (500 - 600 rpm) 14 poles (428 - 514 rpm) Above 14 poles

PRIME MOVER

Reciprocating Engine - Diesel

- Gas

Gas Turbine Steam Turbine Hydro Turbine

POWER RATING

1 - 3 MVA >3 - 10 MVA >10 - 25 MVA >25 - 40 MVA >40 - 65 MVA

FUEL TYPE

Fossil Fuels - Gas

- Coal

- Oil Nuclear Renewable

- Biomass

- Geothermal

- Solar CSP

- Waste to Energy

- Water

INDUSTRY SECTOR

Chemicals
Data Center
Marine & Shipbuilding
Mining
Oil & Gas

- Oil & Gas: Upstream - Oil & Gas: Midstream

- Oil & Gas: Downstream

Power

Other Industries

SALES CHANNEL

Direct to End-User
Direct to EPC
Direct to OEM
Direct to Systems Integrator
Via Distribution/Partner

FREQUENCY

50 Hz 60 Hz



High Power Generators Database

EMEA			AMERICAS	APAC	
Africa Austria & Switzerland Benelux Central & Eastern Europe France	Germany Italy Middle East Nordic Countries Poland	Russian Fed. & CIS Spain & Portugal Turkey UK & Ireland	Brazil Canada Mexico United States Rest of Latin America	China India Japan	Oceania South Korea Rest of Asia

SP	E	E	Ī
			_

2 poles (3000 - 3600 rpm) 4 poles (1500 -1800 rpm) 6 poles (1000 - 1200 rpm) 8 poles (750 - 900 rpm) 10 poles (600 - 720 rpm) 12 poles (500 - 600 rpm) 14 poles (428 - 514 rpm) Above 14 poles

PRIME MOVER

Reciprocating Engine - Diesel - Gas Gas Turbine

Steam Turbine Hydro Turbine

POWER RATING

>65 - 100 MVA

>100 - 150 MVA >150 - 200 MVA >200 - 500 MVA >500 - 1,000 MVA >1,000 MVA

FUEL TYPE

Fossil Fuels Renewable - Gas - Biomass - Geothermal - Coal - Oil - Solar CSP Nuclear

- Waste to Energy

- Water

COOLING TYPE

Air Cooled Hydrogen Cooled Combined Cooled (Hydrogen Cooled Rotor & Water Cooled Stator)

SALES CHANNEL

Direct to End-User Direct to EPC Direct to OEM Direct to Systems Integrator Via Distribution/Partner

FREQUENCY

50 Hz 60 Hz



Generator Sets Database

EMEA		AMERICAS	APAC		
Africa Austria & Switzerland Benelux Central & Eastern Europe France	Germany Italy Middle East Nordic Countries Poland	Russian Fed. & CIS Spain & Portugal Turkey UK & Ireland	Brazil Canada Mexico United States Rest of Latin America	China India Japan	Oceania South Korea Rest of Asia

SPEED

Slow Speed (< 700 rpm) Medium Speed (700 – 1,000 rpm) High Speed (> 1,000 rpm)

PRODUCT TYPE

Mobile Stationary

FUEL TYPE

Reciprocating Engine

- Diesel
- Gas
- Alternative Fuels

POWER RATING

5 - 75 kVA >75 - 375 kVA >375 - 750 kVA >750 - 1,250 kVA >1,250 - 2,500 kVA >2,500 - 3,000 KVa >3,000 kVA

APPLICATION

Emergency Standby Continuous Prime Power Peak Shaving Cogeneration

INDUSTRY SECTOR

Agriculture
Biomass
Cogeneration (CHP)
Commercial Building
Data Center
Infrastructure

Lighting
Marine & Shipbuilding
Military & Aerospace
Marine
Oil & Gas
- Oil & Gas: Upstream

Oil & Gas: Midstream
 Oil & Gas: Downstream
 Power
 Rolling Stock
 Telecommunications
 Other Industries

SALES CHANNEL

Direct to Dealer
Direct to End-User
Direct to Assembler
Direct to Systems Integrator
Via Distribution/Partner



Wind Generators Database

EMEA

France Germany Italy Nordic countries Spain UK Rest of EMEA

AMERICAS

Canada United States Brazil Rest of Americas

APAC

India Japan South Korea Rest of Asia China

PRODUCT TYPE

Utility Scale - Onshore Utility Scale - Onshore

GENERATOR TYPE

Asynchronous

- Double-Fed Induction Generator (DFIG)
- Squirrel Cage Induction Generator (SCIG) Synchronous
- Electrically Excited Synchronous Generator (EESG)
- Permanent Magnet Synchronous Generator (PMSG)

OUTPUT POWER

750-999kW 2.6-3.5MW 1-1.5MW 3.6-4.5MW 1.6-2MW 4.6-5MW 2.1-2.5MW > 5MW

VOLTAGE

620-850 V 900V 2.3-3.3 kV 4.16-7.2 kV >7.2 kV

COOLING TYPE

Air Cooled Liquid Cooled

SALES CHANNEL

Direct to End-User
Direct to EPC
Direct to OEM
Direct to Systems Integrator
Via Distribution/Partner

SPEED

Slow Speed (< 35 rpm) Medium Speed (80 - 600 rpm) High Speed (800 - 2,000 rpm)



LEAD ANALYSTS

Matt Tolley

Matt Tolley is an analyst in the Capital Equipment & Machinery group at IHS Markit. He joined IHS Markit in November 2014 and his research is focused on the generators market. Matt holds a BA in economics from The University of Texas at Austin. He is based in the IHS Markit Austin, Texas office in the United States and may be contacted at Matt.Tolley@ihsmarkit.com.

Greg Johnson

Greg Johnson is a senior analyst in the Capital Equipment & Machinery group at IHS Markit. He joined IHS Markit in August 2011 and his research has been focused on the generators market including low, medium, and high power generators, wind generators, and generator sets as well as various custom projects.

Greg holds a BBA in finance and economics from the University of Mary Hardin-Baylor. He is based in the IHS Markit Austin, Texas office in the United States and may be contacted at Greg.Johnson@ihsmarkit.com.



Customer Care:

Americas: +1 800 IHS CARE (+1 800 447-2273) Europe, Middle East, and Africa: +44 (0) 1344 328 300

Asia and Pacific Rim: +604 291 3600

Email: CustomerCare@ihsmarkit.com

COPYRIGHT NOTICE AND DISCLAIMER

© 2016 IHS Markit. All rights reserved. No portion of this presentation may be reproduced, reused, or otherwise distributed in any form without prior written consent of IHS. Content reproduced or redistributed with IHS permission must display IHS legal notices and attributions of authorship. The information contained herein is from sources considered reliable, but its accuracy and completeness are not warranted, nor are the opinions and analyses which that are based upon it, and to the extent permitted by law, IHS shall not be liable for any errors or omissions or any loss, damage, or expense incurred by reliance on information or any statement contained herein. In particular, please note that no representation or warranty is given as to the achievement or reasonableness of, and no reliance should be placed on, any projections, forecasts, estimates, or assumptions, and, due to various risks and uncertainties, actual events and results may differ materially from forecasts and statements of belief noted herein. This presentation is not to be construed as legal or financial advice, and use of or reliance on any information in this publication is entirely at your own risk. IHS and the IHS logo are trademarks of IHS.