

2017 Diesel Gas Turbine Sourcing Guide 41

2017 Diesel Gas Turbine Sourcing Guide 41 2017 Diesel Gas Turbine Sourcing Guide 41 A Comprehensive Look at the Market This guide offers a comprehensive overview of the diesel gas turbine market in 2017 providing insights into key trends leading manufacturers ethical considerations and essential sourcing strategies This guide is designed for professionals involved in the procurement and use of these powerful engines offering valuable information for informed decisionmaking Diesel Gas Turbine Sourcing Procurement Trends Manufacturers Ethics Market Analysis Power Generation Industrial Applications The year 2017 saw significant shifts in the diesel gas turbine market driven by evolving energy demands environmental regulations and technological advancements This guide analyzes the key trends shaping this dynamic industry highlighting key players and their offerings It examines ethical considerations surrounding sourcing practices and offers strategies for making informed procurement decisions Analysis of Current Trends Renewed Focus on Efficiency The everrising cost of fuel has driven a strong emphasis on efficiency in diesel gas turbines Manufacturers are focusing on optimizing engine designs incorporating advanced technologies like lean premixed combustion and utilizing digital tools for predictive maintenance to maximize fuel efficiency and reduce operational costs Increased Environmental Concerns The industry is witnessing growing pressure to meet stricter emission regulations and reduce carbon footprints This has led to the development of cleanerburning technologies like Selective Catalytic Reduction SCR systems and high efficiency filtration technologies Growing Demand for Decentralized Power The rise of microgrids and distributed generation has created new opportunities for diesel gas turbines in offgrid applications Their reliability and adaptability make them ideal for powering remote communities industrial sites and disaster relief efforts Integration of Digital Technologies The increasing adoption of digital tools including data analytics and remote monitoring is transforming the way diesel gas turbines are operated and maintained This allows for predictive maintenance optimized performance and reduced 2 downtime Leading Manufacturers and Their Offerings 1 GE Power GE Power is a global leader in diesel gas turbine technology offering a wide range of products including the Jenbacher and Waukesha brands Their engines are renowned for their high efficiency and reliability finding applications across various sectors including power generation oil and gas and industrial processes 2 Siemens Siemens is another industry giant with a strong portfolio of diesel gas turbines They provide solutions for both stationary and mobile applications focusing on advanced combustion technology low emissions and efficient operation Their products are widely used in power generation oil and gas and industrial processes 3 Caterpillar Caterpillar is a wellknown manufacturer of diesel engines including gas turbines Their products are known for their durability and reliability making them ideal for demanding applications in industries like mining construction and oil and gas 4 RollsRoyce RollsRoyce is a renowned name in the aerospace industry and has also established itself as a leading

provider of industrial gas turbines Their engines are characterized by advanced technology high efficiency and low emissions finding applications in power generation oil and gas and marine industries 5 MAN Energy Solutions MAN Energy Solutions is a leading provider of engine technologies including diesel gas turbines They offer a wide range of engines for various applications focusing on high efficiency reliability and environmental performance Their products are widely used in power generation marine and industrial processes Discussion of Ethical Considerations The sourcing of diesel gas turbines comes with ethical considerations particularly in terms of environmental impact and working conditions in manufacturing facilities 1 Environmental Impact Diesel gas turbines while efficient still contribute to greenhouse gas emissions Sourcing decisions should prioritize manufacturers committed to developing and implementing sustainable technologies reducing their carbon footprint and adhering to environmental regulations 2 Working Conditions It is crucial to ensure that the manufacturing processes of diesel gas turbines adhere to fair labor practices Consider suppliers with strong ethical commitments including fair wages safe working conditions and respect for human rights 3 Transparency and Traceability Seek out manufacturers who prioritize transparency and 3 traceability in their supply chains This helps to ensure that the products you are procuring are made ethically and sustainably Strategies for Informed Procurement 1 Define Your Needs Carefully define your specific requirements considering factors like power output fuel type operating environment and emissions regulations This will help narrow down your choices and find the most suitable engine 2 Research Thoroughly Conduct extensive research on various manufacturers and their offerings Compare specifications performance metrics maintenance requirements and cost considerations 3 Seek Independent Expertise Consult with industry experts or independent organizations to gain an objective perspective on the market manufacturers and ethical considerations 4 Consider the LongTerm Look beyond the initial purchase price and consider the longterm costs including fuel consumption maintenance and environmental impact Choose a supplier that offers strong support reliable maintenance and a commitment to sustainability 5 Prioritize Ethical Sourcing Integrate ethical sourcing practices into your procurement process Select manufacturers with strong ethical commitments including fair labor practices environmental responsibility and transparency in their supply chains Conclusion The diesel gas turbine market is dynamic and evolving offering a wide range of options to meet diverse power generation needs By carefully analyzing market trends understanding key players and prioritizing ethical sourcing practices professionals can make informed decisions that ensure efficient reliable and sustainable power generation This guide provides valuable insights and practical strategies to navigate the complex landscape of diesel gas turbine procurement in 2017

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this comprehensive best selling reference provides the fundamental information you ll need to understand both the operation and proper application of all types of gas turbines the full spectrum of hardware as well as typical application scenarios are fully explored along with operating parameters controls inlet and exhaust treatments inspection troubleshooting noise control inlet cooling for power augmentation and nox control this latest edition includes a new chapter on microturbines and additional case studies the author has provided many helpful tips that will enable diagnosis of problems in their early stages and analysis of failures to prevent their recurrence also treated are the effects of the external environment on gas turbines operation and life as well as the impact of the gas turbine on its surrounding environment

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the objective of this pocketbook is to provide a concise and useul source of up to date information for the student or practising engineer

provides a framework to guide decisionmakers involved with the weapon systems acquisition process in determining whether to establish dual production sources in a dual source competition annual production quantities would be divided such that the low bidder would receive the larger share the framework identifies alternative approaches for establishing second sources and implementing dual source competition provides a methodology for estimating costs associated with such approaches reviews relevant microeconomic theories and previous related systems analyzes data on competition in the acquisition of weapon systems and identifies risks which dual sources might affect and assesses their significance the analysis finds that when applied selectively the establishment of second sources and the implementation of dual source competition may be effective in lowering procurement costs in reducing certain risks in sole source production and in enhancing the industrial mobilization base however this is not an effective general policy because costs would normally outweigh benefits

boyce provides an up to date reference covering all major aspects of design operation and maintenance he includes technical details on sizing plant layout fuel selection types of drives and performance characteristics of all major components in a co generation or combined cycle power plant contents section 1 design theory and practice an history and overview of centrifugal compressors aerothermodynamics of compressors two dimensional design of compressor stages three dimensional flow in a centrifugal compressor diffuser design surge and surge control off design performance characteristics mechanical equipment standards an overview of steam turbines an overview of motor drives appendices general properties of air general properties of gases equivalent units index summary

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