Characteristics and Applications of Hitachi H-25 Gas Turbine

Osamu Arai Shinji Use Shunichi Hirose Shinichi Nagai Mitsuo Teranishi Kenji Kamino OVERVIEW: More than 100 orders have been placed for Hitachi H-25 gas turbines from both Japan and various other countries, because of their exceptionally high reliability and efficiency in their class. In addition, they can be used for a wide range of applications, from power and general industrial use to utilization in oil and gas fields. The H-25 is characterized as being heavy-duty, highly reliable, and applicable to cogeneration and combined cycle operations, resulting in higher operational efficiency of the entire system, for which it is highly acclaimed. In one recent application where the worksite was located for from the power supply system, several H-25 gas turbines were used to form an island operation system that was not linked to the main power system. In another application, an H-25 gas turbine was used as a power supply for driving a motor, instead of the mechanical drive system usually based on a small gas turbine. Such applications have been adopted due to the high reliability of the H-25 gas turbine. Hitachi, Ltd. has continued to enhance its H-25 gas turbine as a type of power supply equipment, and thus has contributed to the fields in which it has been used.

INTRODUCTION

THE H-25 gas turbine is an open, simple-cycle, single shaft gas turbine of the 30-MW class.

The H-25 gas turbine offers the following characteristics:

 It is heavy-duty, highly reliable, and ideally suited for continuous operation.

(2) The system start-up time when used in a simple gas turbine cycle is between 15 and 20 min from ignition to reaching the rated load, and thus shorter than that in conventional steam power generation. It is therefore applicable for DSS (daily start-up and shutdown) and peak applications.

(3) Based on modern turbine cooling and compressor technologies, the H-25 achieves the highest level of thermal efficiencies in the heavy-duty 30-MW class. It is also one of the models that has achieved the highest level of efficiency as a cogeneration system combined



Fig. 1—H-25 Gas Turbime and General Overview of Sakhalin B Project in Russia. Historia delivered four H-25 gas turbine generation equipment units to the Sakhalin Energy Investment Co., Ltd., for use in a land-side plant that processes gas and ed estracted from the scaled off the eastern show of Sakhalin Island in Bussia.

<u>Characteristics And Applications Of Hitachi H 25 Gas</u> <u>Turbine</u>

Lei Huang

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Engineered Materials Abstracts ,1991-05

Aircraft Propulsion and Gas Turbine Engines Ahmed F. El-Sayed,2017-07-06 Aircraft Propulsion and Gas Turbine Engines Second Edition builds upon the success of the book s first edition with the addition of three major topic areas Piston Engines with integrated propeller coverage Pump Technologies and Rocket Propulsion The rocket propulsion section extends the text s coverage so that both Aerospace and Aeronautical topics can be studied and compared Numerous updates have been made to reflect the latest advances in turbine engines fuels and combustion The text is now divided into three parts the first two devoted to air breathing engines and the third covering non air breathing or rocket engines

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Table of Contents Characteristics And Applications Of Hitachi H 25 Gas Turbine

- 1. Understanding the eBook Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - The Rise of Digital Reading Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - o Features to Look for in an Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - User-Friendly Interface

- 4. Exploring eBook Recommendations from Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - Personalized Recommendations
 - o Characteristics And Applications Of Hitachi H 25 Gas Turbine User Reviews and Ratings
 - Characteristics And Applications Of Hitachi H 25 Gas Turbine and Bestseller Lists
- 5. Accessing Characteristics And Applications Of Hitachi H 25 Gas Turbine Free and Paid eBooks
 - Characteristics And Applications Of Hitachi H 25 Gas Turbine Public Domain eBooks
 - Characteristics And Applications Of Hitachi H 25 Gas Turbine eBook Subscription Services
 - Characteristics And Applications Of Hitachi H 25 Gas Turbine Budget-Friendly Options
- 6. Navigating Characteristics And Applications Of Hitachi H 25 Gas Turbine eBook Formats
 - ∘ ePub, PDF, MOBI, and More
 - Characteristics And Applications Of Hitachi H 25 Gas Turbine Compatibility with Devices
 - Characteristics And Applications Of Hitachi H 25 Gas Turbine Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - Highlighting and Note-Taking Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - Interactive Elements Characteristics And Applications Of Hitachi H 25 Gas Turbine
- 8. Staying Engaged with Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Characteristics And Applications Of Hitachi H 25 Gas Turbine
- 9. Balancing eBooks and Physical Books Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Characteristics And Applications Of Hitachi H 25 Gas Turbine
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - Setting Reading Goals Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - Carving Out Dedicated Reading Time

- 12. Sourcing Reliable Information of Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - Fact-Checking eBook Content of Characteristics And Applications Of Hitachi H 25 Gas Turbine
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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