

SGT-750 Gas Turbine Case Study Mexico

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Abstract:

The selection of Gas Turbines requires the evaluation of many criteria. First cost is important however the long term cost of ownership requires we look at installation cost, fuel cost and the cost of operation and maintenance.

On a recent project for a pipeline in Mexico CFE was looking for someone to build own and operate a pipeline for 25 years. The flow varied a great deal and increased gradually over time so part load fuel consumption and flow flexibility were also important. In this paper we will review how evaluations were made and discuss some technical solutions which allowed the owner to achieve greater flow flexibility.

Although industry standards exist for fuel consumption, compressor power requirements and available turbine horsepower suppliers do not always provide consistent values for these important pieces of information.

It is important to understand the differences between expected and guaranteed values. We must also be clear about whether guarantees are for part load conditions or only valid for full power. Finally we must understand tolerances allowed in common industry standards such as API 616, API 617 and the ASME power Test Code. (ISO references will be provided)

Only when all of these items are understood can the user understand the real long term cost of ownership.

Project Overview:

CFE, the national power company of Mexico, went out for public tender for companies willing to build own and operate a gas pipeline from El Encino to La Laguna. This will become part a national grid to bring gas from Texas and provide fuel for power generation with Mexico. CFE would provide a 25 year contract to pay for gas transport. The bidders were evaluated on the net present value of the transport cost including the bidders estimate for fuel. In addition there is a limit to the fuel available and substantial penalties if the operator exceeds that limit.

The pipeline required compression in order to deliver the contract flow at the contract pressure.

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Comparative Study on Energy Research and Development Performance Darren P. Unger, Howard J.

Herzog, Massachusetts Institute of Technology. Energy Laboratory, 1998 Gas turbines have emerged as a strong force in the generation market Gas and combined cycle power plants dominate current orders from electricity generators Figure A shows a resurgence of growth in this field during the past decade This followed the development of gas turbines in the 1940s their emergence into the peak power market in the 1960s and the gas turbine slump of the late 1970s and 1980s during which almost no gas turbines were ordered in the US This new growth can be explained by the way that R D advancements interacted with other drivers to gas turbine success These other drivers were fuel availability environmental concerns and changing market conditions stemming from electrical restructuring R D was one of the major keys to gas turbine success Technical improvements such as material advancements and cooling innovations helped to increase gas and combined cycle turbine efficiency and make them more competitive in the power generation market Figure B displays a rise of efficiency of gas turbine combined cycle systems Natural gas availability was another force that interacted with technical improvements to advance gas turbines Figure C demonstrates how natural gas prices were high during the same period as the gas turbine slump Prices peaked during the early 1980s due to natural gas deregulation a perceived lack of natural gas reserves and a general trend of rising fuel prices When additional reserves were discovered and the deregulatory process ended natural gas prices returned to a more competitive level and could be relied upon as a generally available commodity driving the gas turbine market Other forces interacting with R D and natural gas availability were environmental concerns and the changing power generation market Environmental concerns began to show their effect during the 1970s with regulations which drove up the costs of both coal and nuclear power plants Changing market conditions hallmarked by electricity restructuring is changing the way that management decisions are being made about turbine orders Lower capital costs and higher efficiencies are now driving demand for additional gas and combined cycle turbines The success of gas turbine power generation can be explained by the interaction of technical R D with gas availability environmental concerns and changing market conditions As a result we can see that R D alone does not ensure success We have developed a series of criteria for evaluating energy R D spending It is important to have a sufficient basic research and technology base upon which to build The military aerospace industry provided this for gas turbines Until the interaction occurs R D can be sustained by niche or alternative markets For gas turbines this included commercial aviation and the peak power market While it is hard to predict the future there needs to be at least a plausible scenario of the interaction of forces that will make the technology attractive to a larger market As the 20th century comes to a close these forces have converged for gas Business Venture-analysis Case Study Relating to the Manufacture of Gas Turbines for the Generation of Utility Electric Power. Volume II. Private Sector and Public Sector Venture Studies. Final Report. [Use of Coal Gasifier with Combined Gas and Steam System]. ,1978

Increasing national attention is being directed toward the search for clean efficient and reliable energy conversion systems capable of using abundant indigenous fuels such as coal for generation of utility electric power A prime candidate in this area is the combined gas and steam COGAS system employing a high temperature gas turbine with a steam turbine bottoming cycle fed by a coal gasifier This program demonstrates the use of a logical and consistent venture analysis methodology which could also be applied to investigate other high technology energy conversion systems that have yet to reach a state of commercialization but which are of significant interest to the U S Government The venture analysis was performed by using a computer to model the development production sales and in service development phases of programs necessary to introduce new gas turbines in COGAS systems The simulations were produced in terms of estimated cash flows rates of returns and risks which a manufacturer would experience Similar simulations were used to estimate public sector benefits resulting from the lower cost of power and improved environment gained from the use of COGAS systems rather than conventional systems The study shows that substantial social benefits could be realized and private investment would be made by the gas turbine manufacturers if an infusion of external funds were made during key portions of the gas turbine development program It is shown that there is substantial precedent for such public assistance to make possible economic and environmental benefits that otherwise would not be possible 42 references

Gas Turbines Claire Soares, 2014-10-23
Covering basic theory components installation maintenance manufacturing regulation and industry developments Gas Turbines A Handbook of Air Sea and Land Applications is a broad based introductory reference designed to give you the knowledge needed to succeed in the gas turbine industry land sea and air applications Providing the big picture view that other detailed data focused resources lack this book has a strong focus on the information needed to effectively decision make and plan gas turbine system use for particular applications taking into consideration not only operational requirements but long term life cycle costs in upkeep repair and future use With concise easily digestible overviews of all important theoretical bases and a practical focus throughout Gas Turbines is an ideal handbook for those new to the field or in the early stages of their career as well as more experienced engineers looking for a reliable one stop reference that covers the breadth of the field Covers installation maintenance manufacturer s specifications performance criteria and future trends offering a rounded view of the area that takes in technical detail as well as well as industry economics and outlook Updated with the latest industry developments including new emission and efficiency regulations and their impact on gas turbine technology Over 300 pages of new revised content including new sections on microturbines non conventional fuel sources for microturbines emissions major developments in aircraft engines use of coal gas and superheated steam and new case histories throughout highlighting component improvements in all systems and sub systems

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Practical Dispute Resolution Lennart Scharnell, Stuart Sabol, 2018-05-09 This case study explores actions of an account manager of an important maintenance agreement and a field service engineer both newly assigned to resolve reliability issues with a set of gas turbines and a deteriorated relationship with their client The case walks the reader through a logical and practical methodology from collection of data to proposing corrective actions in engineering and account management The case study provides discussions on gas turbine combustion technology combustion air emissions commissioning and performance degradation as background for the exercise A reading assignment is included for understanding Answers to exercises are provided to check comprehension The authors propose using this case study in university study or in industry as an individual or group assignment

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Table of Contents Gas Turbine Case Study

1. Understanding the eBook Gas Turbine Case Study
 - The Rise of Digital Reading Gas Turbine Case Study
 - Advantages of eBooks Over Traditional Books
2. Identifying Gas Turbine Case Study
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gas Turbine Case Study
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gas Turbine Case Study
 - Personalized Recommendations
 - Gas Turbine Case Study User Reviews and Ratings
 - Gas Turbine Case Study and Bestseller Lists
5. Accessing Gas Turbine Case Study Free and Paid eBooks
 - Gas Turbine Case Study Public Domain eBooks
 - Gas Turbine Case Study eBook Subscription Services
 - Gas Turbine Case Study Budget-Friendly Options
6. Navigating Gas Turbine Case Study eBook Formats

- ePub, PDF, MOBI, and More
- Gas Turbine Case Study Compatibility with Devices
- Gas Turbine Case Study Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gas Turbine Case Study
 - Highlighting and Note-Taking Gas Turbine Case Study
 - Interactive Elements Gas Turbine Case Study
- 8. Staying Engaged with Gas Turbine Case Study
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gas Turbine Case Study
- 9. Balancing eBooks and Physical Books Gas Turbine Case Study
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gas Turbine Case Study
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Gas Turbine Case Study
 - Setting Reading Goals Gas Turbine Case Study
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Gas Turbine Case Study
 - Fact-Checking eBook Content of Gas Turbine Case Study
 - 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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