HEAT RATE OPTIMIZATION OF CIRCULATING FLUIDIZED-BED BOILERS COAL POWER PLANTS

16 – 18 JANUARY 2017, SINGAPORE

Topics Covered

Steam Power Plants, Steam Generators, Steam Turbines, Steam Turbine Auxiliaries

Circulating Fluidized-Bed Coal Fired Power Plants Systems and Equipment, Factors Influencing Circulating Fluidized-Bed Coal Fired Power Plant Efficiency and Emissions, Efficiency Standards and Monitoring, International Energy Agency (IEA) Recommendations for Improving the Heat Rate in Circulating Fluidized-Bed Coal Fired Coal Power Plants

Expert Course Faculty Leader

Philip Kiameh

Has more than 30 years of practical engineering experience with Ontario Power Generation and as a Training Manager, has conduct courses and seminars, to more than 4,000 working engineers and professionals who consistently ranked him as "Excellent" or "Very Good". Philip has also wrote 5 books for working engineers from which three have been published by McGraw-Hill, New York.

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Course Overview

This seminar provides detailed description of all the methods used to reduce the heat rate (increase the efficiency) of circulating fluidized-bed (CFB) boilers coal power plants. All the processes, operational and maintenance activities, capital projects, technical options, potential initiatives and incentives to implement upgrades/repairs for increasing the plant efficiency will be covered in detail. This seminar will also provide in-depth explanation of circulating fluidized-bed boilers technology including hydrodynamics, combustion, emissions, design considerations, gas-solid separators, design of CFB components, management of solid residues, materials, stoichiometric calculations, and model for sulfur capture. All the equipment and systems used in circulating fluidized-bed coal power plants will be covered in detail including, boilers, superheaters, reheaters, turbines, condensers, feedwater heaters, deaerators, pumps, compressors, fans, electric generators, instrumentation and control systems, and governing systems, etc. All the factors which affect the circulating fluidized-bed boilers coal power plant efficiency and emissions will be explained thoroughly. All the methods used to calculate the heat rate of circulating fluidized-bed boilers coal power plants will be covered in detail. All the areas in circulating fluidized-bed power plants where efficiency loss can occur will be explained. This seminar will also provide up-dated information in respect to the following methods used to improve circulating fluidized-bed boiler power plant heat rate:

- Optimizing the Combustion Process and Sootblowing
- Controlling the Steam Temperature
- Recovering Moisture from Boiler Flue Gas
- Performing Steam Turbine Maintenance
- Lowering Condenser Back Pressure
- Pre-drying High Moisture Coal and Reducing Stack Temperature

Course Learning Outcomes

- **Calculating the Heat Rate of Circulating Fluidized-Bed Boilers Coal Power Plants:** Learn all the methods used to calculate the heat rate of circulating fluidized-bed boilers coal power plants
- **Benefits of Lowering the Heat Rate of Circulating Fluidized-Bed Boilers Coal Power Plants:** Understand all the benefits of lowering the heat rate of circulating fluidized-bed boilers coal power plants
- **Methods Used to Improve Circulating Fluidized-Bed Boilers Coal Power Plants Heat Rate:** Gain a thorough understanding of all the methods used to improve the heat rate of circulating fluidized-bed boilers coal power plants
- **Processes, Operational and Maintenance Activities in Circulating Fluidized-Bed Boilers Power Plants**: Discover all the processes, operational and maintenance activities used to improve the heat rate of circulating fluidized-bed coal power plants
- **Capital Projects Used to Improve the Heat Rate of Circulating Fluidized-Bed Boilers Power Plants:** Learn about all the capital projects used to improve the heat rate of circulating fluidized-bed coal power plants
- **Technical Options for Improving the Heat Rate of Circulating Fluidized-Bed Boilers Power Plants:** Understand all the technical options used to improve the heat rate of circulating fluidized-bed coal power plants
- **Potential Initiatives and Incentives to Implement Upgrades/Repairs for Improving the Heat Rate of Circulating Fluidized-Bed Boilers Power Plants:** Discover all the potential initiatives and incentives to implement upgrades/repairs for improving the heat rate of circulating fluidized-bed coal power plants
- **Factors Affecting Circulating Fluidized-Bed Boilers Power Plants Efficiency and Emissions:** Learn about all the factors which affect circulating fluidized-bed coal power plants efficiency and emissions
- **Areas in Circulating Fluidized-Bed Power Plants where Efficiency Loss Can Occur:** Discover all the areas in circulating fluidized-bed power plants where efficiency loss can occur
- **Optimize the Operation of Circulating Fluidized-Bed Coal Power Plant Equipment and Systems to Improve the Plant Heat Rate:** Understand all the techniques and methods used to optimize the operation of circulating fluidized-bed coal power plant equipment and systems to improve the plant heat rate
- **Circulating Fluidized-Bed Coal Power Plant Equipment and Systems:** Learn about various types of circulating fluidized-bed coal power plant equipment and systems including: boilers, superheaters, reheaters, steam turbines, governing systems, deaerators, feedwater heaters, coal-handling equipment, transformers, generators and auxiliaries

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Training Methodology

The instructor relies on a highly interactive training method to enhance the learning process. This method ensures that all the delegates gain a complete understanding of all the topics covered. The training environment is highly stimulating, challenging, and effective because the participants will learn by case studies which will allow them to apply the material taught to their own organization.

Who Should Attend

- Engineers of all disciplines
- Managers
- Technicians
- Maintenance personnel
- Other technical individuals

Special Feature

Each delegate will receive a copy of the following materials written by the instructor:

"POWER GENERATION HANDBOOK" second edition published by McGraw-Hill in 2012 (800 pages)

Excerpt of the relevant chapters from the "*POWER PLANT EQUIPMENT OPERATION AND MAINTENANCE GUIDE*" published by McGraw-Hill in 2012 (800 pages)

CIRCULATING FLUIDIZED-BED BOILER COAL POWER PLANT HEAT RATE OPTIMIZATION MANUAL (includes practical information about all the methods used to optimize the heat rate in circulating fluidized-bed coal power plants - 300 pages)

Your Expert Faculty

Philip Kiameh, M.A.Sc., B.Eng., D.Eng., P.Eng. (Canada) has been a teacher at University of Toronto and Dalhousie University, Canada for more than 23 years. In addition, Prof Kiameh has taught courses and seminars to more than four thousand working engineers and professionals around the world, specifically Europe and North America. Prof Kiameh has been consistently ranked as "Excellent" or "Very Good" by the delegates who attended his seminars and lectures.

Prof. Kiameh performed research on power generation equipment with Atomic Energy of Canada Limited at their Chalk River and Whiteshell Nuclear Research Laboratories. He also has more than 30 years of practical engineering experience with Ontario Power Generation (formerly, Ontario Hydro - the largest electric utility in North America).

While working at Ontario Hydro, Prof. Kiameh acted as a Training Manager, Engineering Supervisor, System Responsible Engineer and Design Engineer. During the period of time that Prof Kiameh worked as a Field Engineer and Design Engineer, he was responsible for the operation, maintenance, diagnostics, and testing of gas turbines, steam turbines, generators, motors, transformers, inverters, valves, pumps, compressors, instrumentation and control systems. Further, his responsibilities included designing, engineering, diagnosing equipment problems and recommending solutions to repair deficiencies and improve system performance, supervising engineers, setting up preventive maintenance programs, writing Operating and Design Manuals, and commissioning new equipment.

Later, Prof Kiameh worked as the manager of a section dedicated to providing training for the staff at the power stations. The training provided by Prof Kiameh covered in detail the various equipment and systems used in power stations.

Professor Philip Kiameh was awarded his Bachelor of Engineering Degree "with distinction" from Dalhousie University, Halifax, Nova Scotia, Canada. He also received a Master of Applied Science in Engineering (M.A.Sc.) from the University of Ottawa, Canada. He is also a member of the Association of Professional Engineers in the province of Ontario, Canada.

Prof Kiameh wrote 5 books for working engineers from which three have been published by McGraw-Hill, New York. Below is a list of the books authored by Prof Kiameh:

1 Power Generation Handbook: Gas Turbines, Steam Power Plants, Co-generation, and Combined Cycles, second edition, (800 pages), McGraw-Hill, New York, October 2011.
2 Electrical Equipment Handbook (600 pages), McGraw-Hill, New York, March 2003.
3 Power Plant Equipment Operation and Maintenance Guide (800 pages), McGraw-Hill, New York, January2012.
4 Industrial Instrumentation and Modern Control Systems (400 pages), Custom Publishing, University of Toronto, University of Toronto Custom Publishing (1999).
5 Industrial Equipment (600 pages), Custom Publishing, University of Toronto, University of Toronto, University of Toronto Custom Publishing (1999).

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3 Day Course Outline

Day 1 – Steam Power Plants, Steam Generators, Steam Turbines, Steam Turbine Auxiliaries

- Review of Thermodynamics Principles
- Steam Power Plants
- Steam Generators
- Steam Turbines
- Reheaters
- Condensers
- Feedwater Heaters
- Efficiency and Heat Rate
- Supercritical Plants
- The Fire-Tube Boiler
- The Water-Tube Boiler
- The Steam Drum
- Superheaters and Reheaters
- Once-Through Boilers
- Economizers
- Fans
- The Stack
- Steam Generator Control
- Feedwater and Drum-Level Control
- Steam-Pressure Control
- Steam-Temperature Control
- Mechanisms of Energy Conversion in a Steam Turbine
- Turbine components
- Rotating and Stationary blades
- Thrust bearings
- Labyrinth seals
- Turbine controls
- Testing of Turbine blades
- Quality Assurance of Turbine Generator Components
- Assembly and testing of turbine components
- Turbine Types
- Compound Turbines
- Turbine Control Systems
- Steam Turbine Maintenance
- Steam Generators, Heat Exchangers, and Condensers
- Power Station Performance Monitoring
- The Turbine Governing Systems
- Steam Chests and Valves
- Turbine Protective Devices
- Turbine Instrumentation
- Lubrication Systems
- Gland Sealing System
- Frequently Asked Questions about Turbine-Generator Balancing, Vibration Analysis and Maintenance
- Features Enhancing The Reliability and Maintainability of Steam Turbines

Day 2 – Circulating Fluidized-Bed Coal Fired Power Plants Systems and Equipment, Factors Influencing Circulating Fluidized-Bed Coal Fired Power Plant Efficiency and Emissions, Efficiency Standards and Monitoring, International Energy Agency (IEA) Recommendations for Improving the Heat Rate in Circulating Fluidized-Bed Coal Fired Coal Power Plants

- Major Components of Circulating Fluidized-Bed Power Plants
- Circulating Fluidized-Bed Coal Fired Power Plant Performance
- Circulating Fluidized-Bed Coal Fired Power Plant boilers hydrodynamics, combustion, emissions, design considerations, gas-solid separators
- Design for CFB Components and Management of Solid Residues in Circulating Fluidized-Bed Coal Fired Power Plant boilers
- Materials, Characteristics of Solid Particles, Stoichiometric Calculations and Model for Sulfur Capture in Circulating Fluidized-Bed Coal Fired Power Plant Boilers
- Circulating Fluidized-Bed Power Plant Performance
- Net Power Generation Capacity
- Steam Cycle Heat Rate
- Design Parameters that Affect the Steam Cycle Heat Rate
- Boiler (Steam Generator) Efficiency
- Coal Composition
- Ultimate Analysis
- Flue Gas Exit Temperature
- Energy Content or Heating Value
- Penalty for Stack Gas Reheat
- Flue Gas Desulfurization (FGD) Systems

HEAT RATE OPTIMIZATION OF CIRCULATING FLUIDIZED-BED BOILERS COAL POWER PLANTS 16 – 18 JANUARY 2017, SINGAPORE

- Power Consumption of the Auxiliary Equipment (Allowance for Auxiliaries)
- Power Plant Availability
- Average Load Factor
- Annual Coal Consumption
- Annual Ash and SO2 Generation
- Coal Transportation, Unloading and Storage
- Coal Storage and Reclamation
- Environmental Issues Related with Coal Based Energy Conversion
- Air Pollution
- Sulfur Containing Compounds (SOx)
- Nitrogen Containing Compounds (NOx)
- Carbon Monoxide (CO) and Carbon Dioxide (CO2)
- Particulate Matter
- Environmental Control Systems
- Control Technologies for SOx, NOx, and Particulates
- Electrostatic Precipitators (ESP's)
- Ash and Flue Gas Desulfurization (FGD) Sludge Disposal Systems
- Differences in Reported Efficiency Values
- Energy and Efficiency Losses
- Impact of Condenser-Operating Conditions on Efficiency
- Heat and Power Equivalence
- Efficiency Performance Assessment Periods
- Efficiency Standards and Monitoring
- Reporting Bases for Whole Plant efficiency
- CO2 Emission Reporting
- Generic Reconciliation Methodology
- Efficiency Outlook for Power Generation from Coal
- International Energy Agency (IEA) Recommendations for Improving the Heat
- Rate in Circulating Fluidized-Bed Coal Power Plants

➢ **Day 3 – Calculating Heat Rate of Circulating Fluidized-Bed Coal Fired Power Plants, Benefits of Lowering Heat Rate, Heat Rate Improvement – Methodologies, Capital and Maintenance Projects, Steam Turbine Steam Path Modifications; Processes, Operational and Maintenance Activities Used to Increase the efficiency of Circulating Fluidized-Bed Boilers Power Plants**

- Calculating Heat Rate of Circulating Fluidized-Bed Coal Fired Power Plants
- Benefits of Lowering the Heat Rate of Circulating Fluidized-Bed Coal Fired Power Plants
- Efficiency and Systems of Circulating Fluidized-Bed Coal Fired Power Plants
- Areas of a Circulating Fluidized-Bed Coal Plant where Efficiency Loss Can Occur
- Assessing the Range and Applicability of Circulating Fluidized-Bed Coal Power Plant Heat Rate Improvements
- Circulating Fluidized-Bed Coal Plant Heat Rate Improvement – Methodologies, Capital and Maintenance Projects
- Circulating Fluidized-Bed Coal Plant Heat Rate Improvement – Common Recommendations
- Circulating Fluidized-Bed Coal Plant Specific Recommendations
- Potential Circulating Fluidized-Bed Coal Plant Heat Rate Improvements
- Quantified Benefits of Implementation of Recommendations
- Fuel Savings and CO2 Benefits
- Circulating Fluidized-Bed Coal Plant Heat Rate Improvement – Fleetwide Assessment Case Study
- Circulating Fluidized-Bed Coal Power Plant Heat Rate Improvements – Issues and Perspectives
- Flexible Operation, Cycle Alignment, Remote Monitoring Centers
- Steam Turbine Steam Path Modifications
- Circulating Fluidized-Bed Coal Plant Heat Rate Improvement Program Guidelines
- Realized and Projected Heat Rate Improvements
- Efficiency Improvements to Reduce Greenhouse Gases (GHG)
- Existing Circulating Fluidized-Bed Coal Power Plants Efficiency Improvements
- Key Technical Opportunities to Increase Thermal Efficiency
- Processes for Increasing the Plant Efficiency
- Operational and Maintenance Activities Used to Increase the Plant efficiency
- Capital Projects Used to Increase the Plant Efficiency
- Framework for Measuring and Sustaining Improvements
- Technical Options to Increase Plant Efficiency
- Accurate Definition and Standard for Measuring Efficiency in Real Time
- Potential Initiatives for Increasing Plant efficiency
- Incentives for Existing Fleet to Implement Upgrades/Repairs for Increasing Plant
- Efficiency
- Improve the Heat Rate by Optimizing the Combustion Process and Sootblowing
- Improve the Heat Rate by Controlling the Steam Temperature
- Improve the Heat Rate by Recovering Moisture from Boiler Flue Gas
- Improve the Heat Rate by Performing Steam Turbine Maintenance
- Improve the Heat Rate by Lowering Condenser Back Pressure
- Improve the Circulating Fluidized-Bed Coal Plant Heat Rate by Pre-drying High Moisture Coal and Reducing Stack Temperature

OTHER AVAILABLE COURSES

4 Pillars of Transformer Condition
Advanced Project Finance for Power
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Advanced Turnaround Shutdown & Outage Management
Ancillary Services in Competitive Electricity
Asset Management for the Power Industry
Best Practice Renewable Energy Capital & Project Management
Biomass Power Generation
CFB Combustion for Boiler Operations
Clean Development Mechanism and Carbon Markets
Coal Contracts
Combined Cycle Power Plants Operation
Combined Heat & Power (CHP) and Co-Generation Plant Operations
Competency Management System for the Power Industry
Design & Operations of Circulating Fluidized Bed Boiler
Developing & Structuring Public-Private Partnership (PPP) for Infrastructure
Effective Tender Process Management for Power & Utilities
Electrical Hazop (eHazop) Studies for the Power Industry
Electricity Demand-Side Management
Electricity Industry Design
Electricity Network Planning
Electricity Retail Contracts
Electricity Theft
Electricity Trading Essentials
Energy Efficiency
EPC Contract Management for Power & Utilities
Essentials of Coal Markets and Trading
Essentials of Power Trading
Excitation Systems
Feed-In Tariffs for PV Systems
Finance for Non-Finance Professionals in Power & Utilities
Financial Modelling for Project Finance in Power & Utilities
Fitness-For-Service API 579 & High Energy Piping Life Management
Fundamentals of Geothermal Energy
Fundamentals of Power Generation
Gas & LNG Contract Negotiation
Gas Turbine Generator Selection, Operation & Maintenance
Gas Turbine Hot Gas Paths, Rotors & Failure Analysis
Gas Turbine Major Inspection & Overhaul
GE Gas Turbine Operations Simulation Based
HRSG Design, Operations & Understanding, Controlling of HRSG Damage
HV Substation Design & Construction
IEC for Utilities
Integration of Distributed Generation
Introduction to Carbon Capture & Storage
Introduction to Clean Coal Technology
Introduction to Power Systems
Keeping Electrical Switchgear Safe
Leadership & Team Dynamics for Power & Utilities
LNG Fundamentals
LNG Markets & SPOT Trading
Maintenance Planning & Scheduling
Making IPP & Renewable Energy Projects Contract Frameworks Bankable
Managing Complex Projects for Power and Utilities Professionals
Medium Voltage & High Voltage Switchgear
Metallurgy for Engineers
Mechanical Engineering for Non-Mechanical Engineers
Mini Hydro Project Analysis
MKV Speedtronic Control System
MK VI Speedtronic Control System
Nuclear Energy Project Planning & Economics
Nuclear Power
Offshore Platforms Electrical Systems Design & Illustrations
Operations of Coal Fired Power Plants
Power Generation Commissioning, Operations & Maintenance
Power Generation Operation, Protection & Excitation Control
Power Plant Chemistry for Chemist & Chemical Engineers
Power Purchase Agreements
Process Control Methods
Programmatic CDM
Project Management for Power and Utilities
Relay Protection in Power Systems
Reliability Centered Maintenance Masterclass
Reliability Engineering
Renewable Energy Development & Investment
Renewable Energy Integration
Risk Based Inspection
Risk Management in Power Markets
Root Cause Analysis
Rotating Equipment Maintenance & Reliability Excellence
SCADA & Power Systems
Smart Grid
Solar Energy & Photovoltaic Power
Spare Parts Optimisation
Supercritical and Ultra-Supercritical Coal-Fired Power Plant
Technical Report Writing & Presentation Skills for Power & Utilities Professionals
Ultra Low NOx Gas Turbine Combustion
Uninterruptible Power Supply
Vibration Analysis & Condition Monitoring
Waste to Energy Plant Operations
Water Treatment and Corrosion Control for Steam Generation and Power Production
Writing Effective Standard Operating Procedures (SOP) for Power & Utilities Professionals & Engineers

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PowerEDGE is headquartered in Singapore but we run our training programmes in different venues around Asia.

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We are a Power & Utilities Training Specialist.

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This varies from a diversity of Power Operators, Regulators, Financiers, to Vendors in the Power & Utilities industry.

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This varies from 15 to 20 participants. Class sizes are kept small to allow trainers to focus better on each participant.

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We accept Visa/MasterCard, cheques, bank transfers and cash on site.

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Accommodation is not included in the course fee but we are always happy to advise on available accommodations.

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We will be pleased to help you negotiate a better rate with hotels.

13. Is lunch provided during the course?
We provide lunch and 2 tea breaks every day during our training programmes.

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Yes, training and course materials are included in the course fee.

15. Will there be a certificate for the course?
Yes, there will be a certificate of participation upon completion of a course.

16. Who are PowerEdge trainers?
They are expert consultants and practitioners with many years of experience in the subject matter that they deliver on.

17. Are PowerEdge trainers competent?
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18. Can PowerEdge assist with Visa travel applications?
We can assist in advising you on the relevant procedure(s) and embassies/consulates that provide Visa for travel purposes.

19. Can we purchase training materials without attending a course?
Unfortunately this option is not available as training materials are specially developed for courses.

20. Can course content be tweaked to cater to our needs?
Of course! Just let us know your request and we will get the trainer to assist in carrying it out.

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	PER PARTICIPANT	2 PARTICIPANTS OR MORE	IN-HOUSE TRAINING
3 Day Programme	SGD 2,900 Per Participant	SGD 2,500 Per Participant	Guaranteed Minimum 40% Off Normal Price
	*SGD 3,103 Per Participant (GST Inclusive)	*SGD 2,675 Per Participant (GST Inclusive)	

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