



# Blaze Avenue

Empowering Business Ideas

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## DEMAND SIDE MANAGEMENT & ECONOMIC DISPATCH

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3 DAYS WORKSHOP  
18th -20th September 2017  
Kuching Sarawak, Malaysia

PUICA NITU  
COURSE INSTRUCTOR

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Limited Seats Only



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## Our Past Clients

- Kenya Power & Lighting Co. Ltd - Kenya
- PT Bekasi Power - Indonesia
- PT Perusahaan Listrik Negara (PLN) - Indonesia
- Sarawak Energy Berhad - Malaysia
- Hong Kong Electric Company - Hong Kong
- National Electric Power Regulatory Authority (NEPRA) - Pakistan
- Saudi Electricity Company - Saudi Arabia
- National Grid Cooperation Philippines (NGCP) - Phillipines
- Emirates SembCorp Water & Power Company - UAE
- Tenaga Nasional Berhad (TNB) - Malaysia
- DNV GL Private Limited - Singapore
- Ceylon Electricity Board (CEB) - Sri Lanka
- Sabah Electricity - Malaysia
- Lanka Electricity Company (Pvt) Ltd - Sri Lanka
- NamPower Corporation (Proprietary) Ltd - Namibia
- Kenya Generation (Kengen) - Kenya
- Transmission Company of Nigeria (TCN) - Nigeria
- Niger Delta Power Holding Company Limited (NDPHC) - Nigeria

## Our Power Sector Training List (Partial List)

- Smart Grids - Platform of the Smart Cities
- Power System Stability & Control
- Renewable Resources : From Planning To Operations
- PLC, SCADA and AC Drives for Industry
- SCADA and the Impact of Smart Grid
- SCADA Systems - Transitioning from Beginner to Advanced
- SCADA, IEC 61850 and Substation Automation workshop
- Uncertainty and Risk Management in Electricity Markets
- Modern Power System Analysis
- Reliability Centered Maintenance
- Demand Side Management
- Energy Markets Strategic Planning
- Economic Dispatch and Power System Planning
- Power Systems Planning and Operations

## In House Training Solutions :

We provide training and development programs tailored to the needs of your organization. We pay attention to the course contents as well as enhanced delivery methods to ensure that your employees learning are transferred to the workplace.

Get in touch:





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- Energy Trading and Energy Markets
- Energy Markets, Risk Assessment and Financial Management
- Reliability and Risk Applied to Physical Assets
- Economic Dispatch & Grid stability Constraints in Power Plants
- Power System State Estimation
- Communication Interfaces in Smart Grid
- Distributed Generation
- Distributed Wind Generation and its Impacts on the Network
- Modelling Analysis for Modern Electrical Systems
- Power Systems Economic Operation
- Reactive Power and Voltage Control on Electrical Networks
- Real Power & Control on Power System
- Substation Automation Systems
- Power System Reliability
- Power System Restoration
- Methodologies & Implementation Strategies
- Fundamentals of Power Systems

## COURSE OVERVIEW:

### Demand Side Management

This course will assist power system professionals in planning and operating a power system with increasing penetration of Demand Side Management (DSM) Programs as well as renewable resources. The course focuses on demand side management and demand response, including drivers and benefits, shift able load scheduling methods and peak shaving techniques. Demand Side Management techniques take into account

real-time pricing by increasingly leveraging the penetration of smart meters and AMI (Advanced Metering Infrastructure) data. The increasing penetration of smart grid and smart equipment in the modern systems presents increased opportunity identification of cost opportunity and control of demand that would enable user side load control. If demand response can be widely adopted, users will save money on electricity and society as a whole will conserve and use less electricity.

Distributed generation and smart meter infrastructures are discussed in light of commercial and residential programs. Weather volatility impacts the demand profile. The Internet of Things/ The Internet of Everything is a game changer through the Power of Agile Virtual Devices. The course presents how new Devices bring new Analytics and innovative approaches to Demand Side



## Economic Dispatch

This course will assist power system professionals in planning for tomorrow's dispatch as well as dispatching the generating units in the intraday. Not only the economic dispatch under system constraints represents the building bloc in the operation and planning of the power system, but most importantly, in the context of a market, economic dispatch becomes the fundamental tool in deriving the spot market price. The Optimal Power Flow module is an intelligent load flow that employs techniques to automatically adjust the power system control settings while simultaneously solving the load flows and optimizing operating conditions within specific constraints. The real time Optimal Power Flow is been discussed.

## WHO SHOULD ATTEND

The following professionals will especially benefit from attending this training:

- DSM Program Managers / Administrators / Coordinators
- Utility Regulatory Team Members
- DSM Analysts
- Regulatory Specialists
- State or Public Regulators
- Public Purpose Program Administrators
- Conservation and Energy Efficiency Analysts
- Utility DSM Program Administrators / Coordinators
- Resource Managers
- DSM Program Inspection Analysts
- DSM Program Design Analysts
- DSM Program Impact Engineers/Analysts
- DSM Consultants and Vendors
- Professionals from power system engineers to managers and executives from Control Centers (or ISOs)
- Transmission planners and operators.
- This course is beneficial to dispatchers, operators and long term planners.
- The course is essential to power traders and training the control operators

## Benefits to your company

This course provides an in depth understanding of all the aspects of Demand Side Management and Economic Dispatch.

This program offers a powerful training and career-enhancing opportunity for those who are responsible for knowing, facilitating, or administering DSM programs.

The Economic Dispatch is addressed under both traditional and competitive markets with the latest developments and trends in the industry. Attendees will understand how generation dispatch minimizes instantaneous operating cost, subject to transmission system constraints.

