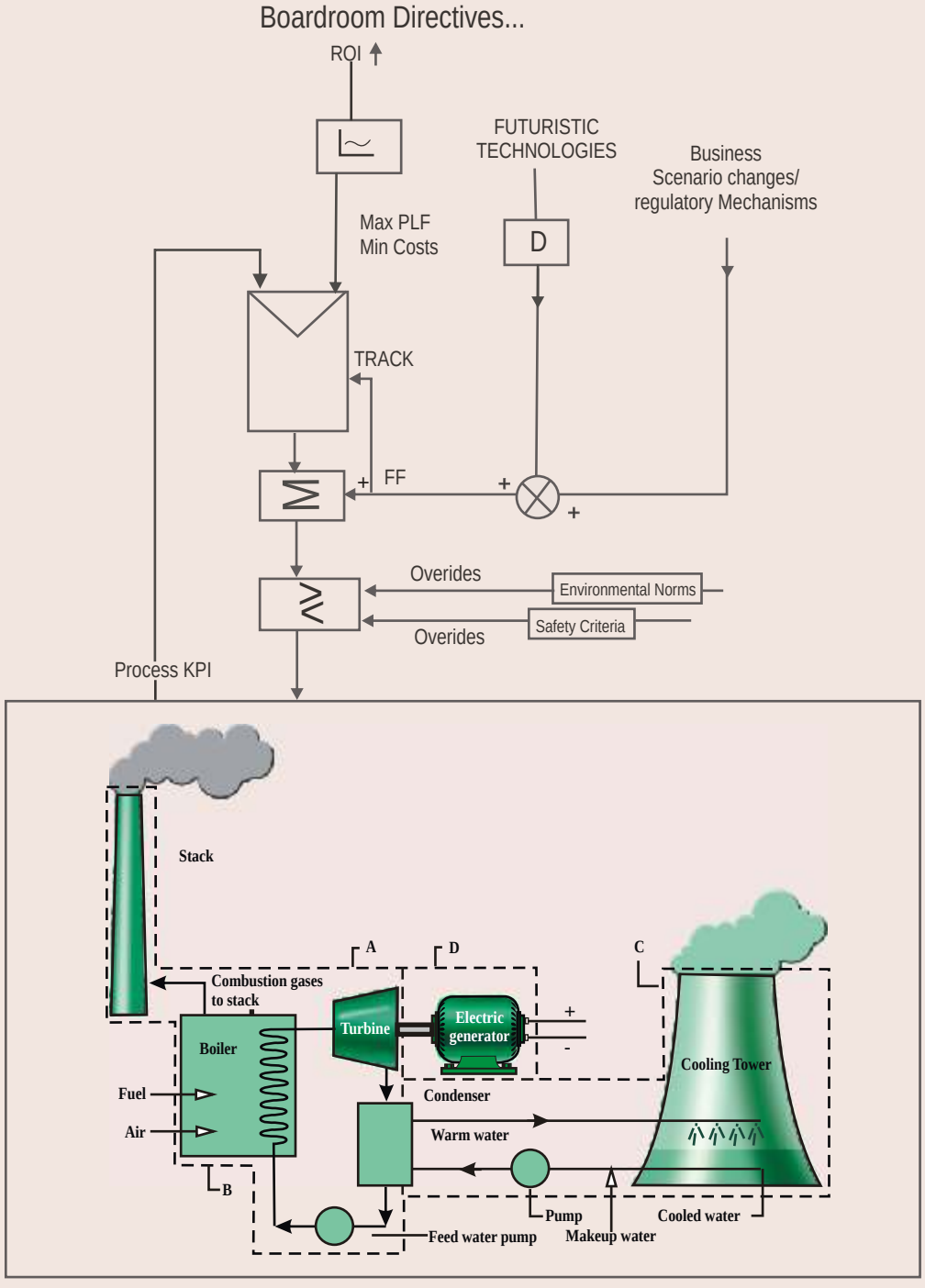
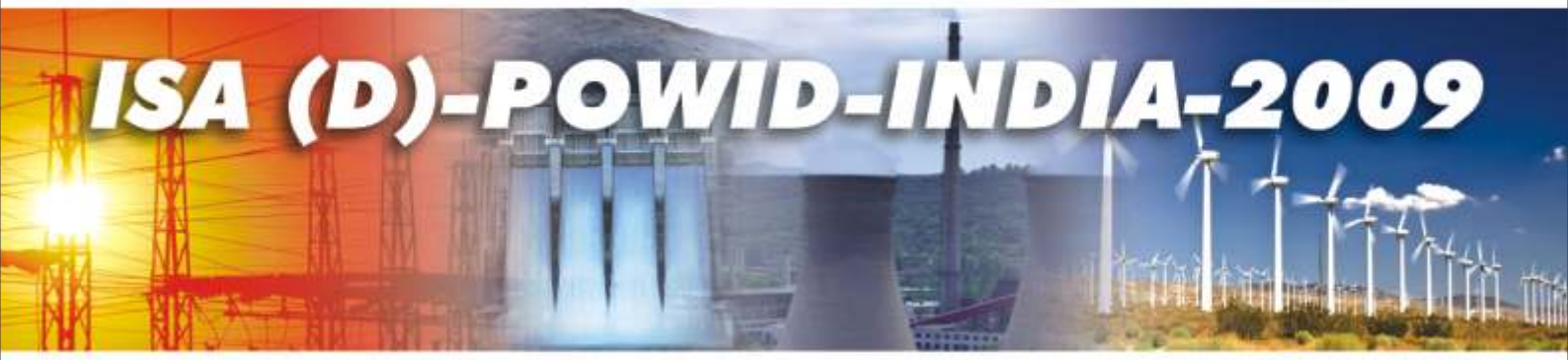
# Empowering 'Power' with Automation




The International Society of Automation




# Programme Coverage

User forums in term of problem discussions
Power plant systems/sub systems suppliers forum
Case study presentation by users and suppliers
Power Quiz for professional /students
Panel discussions
Conferring life time achievement award for distinguished services in power sector control & instrumentation

## Programme outline

### Plant Performance Optimization and Enterprise solutions

- Bench-marking, Identifications of deliverables, Audit procedures, Availability of Equipment
- Enterprise management solution -integrating sensor to board room, Dash board of key performance indicators (KPI)

### Innovate for Tomorrow - Emerging Technologies

- Managing information explosion
- Challenges of adaptable and effective expert systems
- New and futuristic technologies

### Field Instrumentation-Issues and challenges in the context of present business scenario

### Project Management, Operation and Maintenance (O&M) & Renovation and Modernization (R&M)

- Benchmarking and adopting best practices of project management
- Optimization of automation systems based on ROI. Risk based maintenance, asset management system and reliability centered maintenance through automation strategies
- Addressing obsolescence-maintainability, Legacy systems to open architecture scalability, Upgradeability, Interoperability and Life expectancy of the automation systems

### Environment, Comprehensive security of power plants and Skills development

- Strategies and solutions for control and monitoring pollutants in flue gas and waste water, Ambient air monitoring solutions
- Security concerns in integration of Plant controls with Enterprise systems,Technologies and solutions for surveillance and monitoring of critical plant assets
- Efficacy of training simulators, operator trainings for full system utilization, Deployment of concurrent training simulator with control system for continuous improvement

❖ Program for Students/Academicians

# POWID-INDIA

POWID-INDIA is an initiative taken by ISA-Delhi section to provide a common platform to all stakeholders of automation community. This pan-Indian forum aims at sustainable development of power sector automation solutions.

The vision of the ISA (D)-POWID-INDIA is: -

“Take the automation in Indian power sector to global heights and acquire numero-uno position in Indian power sector”

The mission of the ISA (D)-POWID-INDIA is: -

“Engage all stake holders of power sectors in adopting the latest instrumentation and automation standards there-by achieving safe, reliable, efficient and environment friendly power availability in country.”

To realize the above vision and to execute the mission, the various long term and short term activities to be carried out by POWID-INDIA are as follows: -

- Enabling knowledge sharing among power sector automation fraternity including utilities, consultants, equipment manufacturers, suppliers and academicians.
- Facilitate through integrated automation, the realisation of a world class power plants in India with green, clean and lean visualization, there-by establishing global benchmarks in power generation in terms of reliability, availability, quality power, at a competitive cost.
- Integrate Indian power sector automation to global developments in automation there by seeking global solution for the local issues/problems.
- Provide an interface for the automation fraternity with the policy makers and regulators

The engagement and involvement of various stake holders including technology providers and developers would certainly help in achieving the roadmap for implementing strategies for level-4 automation so essential for a world-class plant.

As a precursor to realize the big dream of making POWID-India as one of the most prestigious event of this country, a two-day symposium is being organised in Delhi on 24-25 April-2008. The two days symposium would address the challenges that are being faced by the modern day power plants and bring on-stage the key technology issues before a well-

represented audience. It is proposed to develop a technology road map through continual efforts and various programs of POWID-INDIA, so that Indian power industry can develop a vision of being world class, by retaining the leadership through the management of Innovation, R&D, Technology and Talent. This calls for the involvement of not only the technocrats, scientists, academicians, IT and management professionals, but also the senior policy and decision makers and doyens of industry to influence future course of power industry in India. Over and above, it also necessitates the continuous engagements of leaders and stalwarts, not only from the fields of automation and IT but also from diversified disciplines like Project Management, Finance, Power Generation/ Transmission/Distribution, Administration, Macro Planning, Manufacturing, Environment Planning/Engineering, Government, Quality and host of other domains, sectors and divisions.

This is meant to be a continuing endeavor ever pushing the power industry to the forefront of technology and performance leadership.

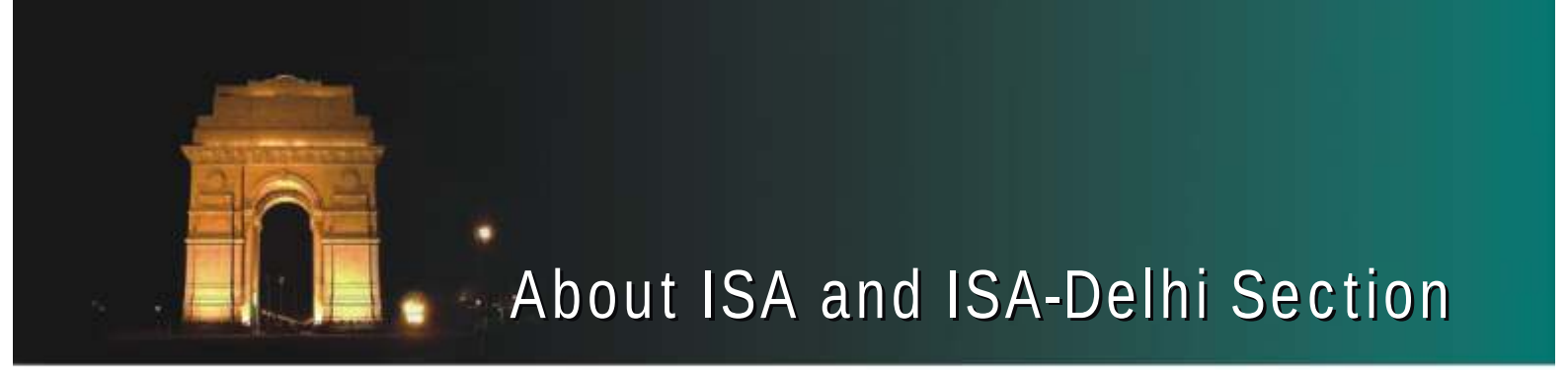
A power packed, first ever, two days program with event theme as **"Empowering 'Power' with Automation"** is being planned to satiate the ever-increasing demand of knowledge sharing among automation professionals of Power industry.

## Venue

**Jacaranda, Habitat World,**
**India Habitat Centre**
**Lodhi Road, New Delhi**
**( Entry From Gate No. 3 Vardhaman Marg)**
**Dates :- 24-25 Apr-09(Fri-Sat)**

Tea, Lunch and Dinner shall be served to Participants during Symposium.

(Event theme contributed by R. Sarangpani, NTPC Ltd.)



# About ISA and ISA-Delhi Section

ISA (The International Society of Automation) is a 100 years old global society of more than 40,000 C&I and automation professionals, working through 14 districts and hundreds of sections worldwide, with its headquarters in North Carolina, USA.

ISA has been involved in promoting emerging technologies across the globe by a variety of ways such as

- Writing standards for new technologies like Field Bus, Wireless, Manufacturing execution systems, packages etc.;
- Publications on a huge variety of subjects , magazines like Intech ;
- Training seminars/workshops , webinars etc.;
- Certification programs for technicians ,engineers and senior professionals .

Exhibitions like ISA Expo held regularly in the USA. Through various honours and awards, ISA recognizes the talented and the dedicated professionals every year during its annual get together. Interaction with Student members, formation of student sections and annual scholarships, competitions etc. are many interesting student programs of the ISA.

ISA Delhi section has been formed almost a decade back and has progressed well since then, with a membership of around 200 and growing. ISA Delhi section had taken many initiatives in the past including organizing two exhibitions ISA(D) EXPO' 05 & '07, a large number of seminars and workshops on emerging technologies. A body has been constituted for promoting the Systems Integration concept in India.

**Some of the recent initiatives have been**

- Formation of POWID-India (Power Industry Division), a pan Indian body to promote awareness of emerging issues, technical concerns and technologies in Power plants.
- Formation of Systems Integrators forum To share the knowledge base and vast scattered resources of Systems Integrator community.
- Forum for Interaction with academics and education Institutions to bring together the Industry and Institutions.

For more information about ISA, ISA-Delhi & POWID-INDIA please visit **www.isa.org, www.isadelhi.org**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