



Expert Group Meet cum Seminar on Automated Meter Reading (AMR)

On 4-5 September, 2008, at Singapore
Call for Sponsorship, delegations & Papers

Power Your Business in Indian Power Industries

India has an accelerated Power Development and Reform Program to provide reliable, affordable and quality power to all users by 2012. India has investment requirements of USD 50 Billion for Transmission, Distribution and Rural Electrification during XI Plan. Council of Power Utilities (CPU) has received number of suggestions, during their Expert Group meetings & Workshop on Power Distribution, to organise future workshops at Singapore to share the technology and experiences of the developed & developing countries. Council of Power Utilities (CPU) proposes organizing a two-days Expert Group Meet cum Seminar on “**Automated Meter Reading (AMR) & Interoperability for Meter Data Exchange and Analyses**” on 4-5 September, 2008 at **Grand Hyatt Singapore**

The International companies/organisations being requested for participation include Senoko Power Limited, Tuas Power Ltd., Energy Market Companies Private Limited, Power Serya Limited, Manila Electric Company, National Transmission Corporation, KEEMA Inc., IBM, ABB, Metropolitan Electricity Authority, Oracle, SAP, Hong Kong Electric Co. Ltd etc.

1. Automated Meter Reading (AMR)

New technologies in the electricity industry in particular automatic meter reading (AMR)-have revolutionised utilities, which today are able to read the meters of domestic customers remotely and thus get a better idea of customer consumption; prepare statistics regarding both technical and non-technical losses; and offer new and faster services such as automated electronic bills. These advantages of AMR have been the key point for the start of the new age of metering.

At present, there are several methods that utilities can use to read their customers meters. Some are based on traditional reading methods, and can therefore, be optimised using new technologies. For example, the human factor causes errors when readings are done manually, and customers prefer not to have strangers visiting their property. Customers also dislike estimated readings, which are often not accurate and may result in an excess payment made by them.

The evolution of the metering market from electromechanical to electronic meters has created a new way to read energy consumption. This new way is called AMR, and the most well-known communication technologies are via modem, GSM radio and PLC (power line carrier)

GSM or modem communications are expensive solutions for collecting the small amount of information contained in the meter. Radio systems are economic enough, but in some cases there are coverage problems. Thus PLC is a very interesting alternative for AMR.

2. Interoperability for Meter Data Exchange

Interoperability is defined as the ability to exchange data between any meter and any data collection system having compatible capabilities. (DLMS)/ COSEM (Device Language Message Specification/ Companion. Specification for Energy Metering) published in 2002 by IEC come complete with a conformance- testing scheme. Although it cannot guarantee interoperability, it is an important tool to verify the correctness of implementations. To date, 13 meter types have been certified. DLMS/COSEM was conceived to bring interoperability into meter data exchange. Industry developments and previous work have demonstrated the need for a consumer portal providing a communications gateway between energy providers and consumers for energy service functions.

3. **Special Economic Zone (SEZ)** :A Special Economic Zone (SEZ) is a geographical region that has economic laws that are more liberal than a country's typical economic laws. The most successful Special Economic Zone in China, [Shenzhen](#), has developed from a small village into a city with a population over 10 million within 20 years. Following the Chinese examples, Special Economic Zones have been established in several countries, including [Brazil](#), [Iran](#), [Jordan](#), [Kazakhstan](#), [Pakistan](#), [the Philippines](#), [Poland](#), [Russia](#), [Ukraine](#) etc. India is also planning a number of SEZ. It is an opportunity for integration of AMR technologies to encompass, gas, water etc.

MINIMUM REQUIREMENTS FOR INTEROPERABILITY

Regardless of how they are implemented, all consumer portals need to have some common characteristics in order to achieve interoperability and economics of scale. A common management method should be provided so that devices from a variety of vendors can also be monitored, diagnosed, and controlled in a common manner.

Proposed Conference Structure

The Meeting is structured to have 6 technical sessions & one Inaugural session spread over two days. A tentative structure of 6 technical sessions is given below:

Session I

Automated Meter Reading- Present Status and Future Trends -Transforming Metering Automation into Virtual Energy Information Network, Difficulties in Implementation of AMR for Residential consumers, Smart Meters and Demand Response, On site Billing for Electricity Consumption

Session II

AMR embedded with Power Quality for Customer & Energy Loss Reduction Through Innovative Metering- Metering, Billing and Customer care, Interoperability of Meter Data Exchange, Putting Power Quality (PQ) Measurement in a Meter,

Session III

AMR Data Analysis and Energy Theft Detection - Communication Systems for Metering Billing, Pre paid Metering for Emerging Electricity Market in India, Role of Electrical Energy metering in the context of Accelerated Power Development in India

Session IV

Automatic Meter Reading and Relevance of Interoperability-How to achieve Interoperability and continuity in e-business of Energy Market, How to use Data Management for Better Energy management, Using Smart Meters to Ensure revenue, What Intelligence should the Consumer Energy Management Infrastructure Have?

Session V

Futuristic Approach on Remote Metering- Smart Metering as a Driving Force to Engage the Customers, The Experience of next Generation Smart Metering Systems and Planning for the Future, How to Achieve Customer Interest for Energy Savings?, Linking Meter Readings to Billing System

Session VI

Improved Revenue Management &Integrating of AMR technologies to Electricity, Gas & Water - Growing Role of GSM/GPRS Industry in Metering, Improved Revenue Management Efficiency by Integrating Payment System with Revenue Cycle, Development of Special Economic Zone (SEZ), Integration of AMR technologies to encompass, gas, water etc

Who Can Participate:

All the Executives/Engineers/Managers of the power supply, Equipment Manufacturers, Financiers, Power Regulators etc. associated with power supply industry and other associated sectors like Gas, Water Etc may participate in the meeting.

Nomination of Officers: Organizations/Utilities are requested to nominate officers for participation in the meeting.

Paper Presentation:

Officers in your organization may be requested to present Papers in the meeting on the relevant subject. The names and complete communication address of such officers may be intimated to CPU in advance. Individuals can also participate and present paper in the meeting. **Last date for receiving paper is August 31, 2008.**

Registration Fee:

Registration fee per delegate to the Meeting is US \$750/- or equivalent. **CPU members are offered 50% discount on registration fee i.e. US\$375/- (Rs.15,375/-) per delegate.** and is payable by **cash or Bankers Draft in favour of Council of Power Utilities, on any Bank at New Delhi/Delhi.** Council of Power Utilities has been granted registration u/s 12A read with section 12AA of the Income Tax Act 1961. As such no tax is deductible from the payments made to the Council of Power Utilities. CPU's PAN is AAATC3430E. On-the-spot registration can also be made. Intending participants may send their requests for registration in writing to the **President, Council of Power Utilities in the address given above.** The participants have to make their own arrangement for lodging and transport. However the CPU will nominate a tour & travel agent to facilitate & Coordinate the travel and accommodation.

Sponsorship:

Power utilities, equipment manufacturers and others associated with the subject are invited to sponsor the meeting on payment of **US \$ 15000/-** or equivalent. As a Sponsor, your Company's name & Logo will feature prominently on the Conference Room, Conference Venue, Brochures, Final Program, kit Bags, Advertisement Spot on the Screen etc. You will also be entitled to send three delegates free of registration fee and also have a Table Top Display.

Air Travel / Hotel Booking information as received from our travel agent (INDEBO) is given below. Participants may contact them directly for booking:

**M/S INDEBO,
116-117 Aurobindo Place, Hauz Khas
New Delhi-110016,
Phone no 91-11-26861722, Fax 91-11-26862122,
Email: debraj@indebo.com, URL: www.indebo.com**



Terms & Conditions

HOTEL

NO HOTEL RESERVATION HAS BEEN MADE AS ON DATE.

Hotel rooms will be offered on first-come-first-serve basis and confirmation of rooms and above rates are valid subject to availability at the time of making the reservation request.

Under the circumstance where the suggested hotel is not available at the time of making a reservation, a suitable alternative will be suggested. The cost difference, if any, would be borne by the guest.

The room tariff is inclusive of currently applicable Government Tax. In case of any change, taxes applicable on the date of stay will be charged.

The room tariff does not make provision for personal expenses such as telephone, bar, laundry or any other item which is not specifically mentioned. All room extras will be settled by the guest directly with the hotel at the time of check out.

The official Check in time at the hotel is 1400 hrs and Check out time is 1200 hrs. For all early arrivals before 1400 hrs and late departure beyond 1200 hrs will be charged as one night stay.

AIR TRAVEL

NO FLIGHT RESERVATION HAS BEEN MADE AS ON DATE.

Airfare and flight schedules are subject to change without any prior notice. Flights and Fares valid as on date of travel would be charged.

TOURS & SIGHTSEEING

All Local Tours would commence and end at the congress hotels only. Participants to the tours must assemble at lobby at least 15 minutes prior to the tour departure time.

The above rates are valid for the date of travel and for the number of persons mentioned in the respective tour package . If there is a change in the number of participants, fresh rates would apply.

GENERAL TERMS

All rates quoted in the budget are in Indian Rupees, and are inclusive of currently applicable taxes. Taxes are subject to change without prior notice. Taxes as applicable on the date of travel will be charged.

The cost is based on rates valid for the intended period of travel, errors and omissions excepted. However, variations outside our control such as an increase in fuel cost, or other circumstances could arise, in which case we would necessarily have to review our cost accordingly.

All shopping undertaken by the guests during a tour are his personal responsibility and **INDEBO** is neither responsible nor liable for this activity.

No claim for refund shall be entertained for un-utilised services.

We suggest that clients should be covered by Travel, medical, health and other types of insurance.

INDEBO will only act as a facilitator for submission of visa application.

The grant of visa is at the discretion of the Visa Counsellor.

A visa is required for travel to Singapore. Please ensure that the passport is valid for a minimum of 06 months from the date of entry into Singapore.

Payment & Cancellation Terms :
shall Depend as per terms & condition of the hotel selected

Liability

The above quotations are subject to amendment should suppliers amend their rates prior to commencement of the tour.

Unforeseen conditions may necessitate some modifications to the itinerary. INDEBO (INDIA) PVT LTD reserves the right to make such changes, alter or omit any part of the itinerary as the situation demands.

INDEBO (INDIA) PVT LTD, while undertaking tours, transportation, hotel accommodation and other services only act as an agent on the clear understanding that they shall not be, in any way responsible or liable for any accident, damage, loss, delay or inconvenience caused in connection with the travel facilities arranged by the Company, its employees or agents.

All bookings are accepted and executed with utmost care, yet no responsibility is undertaken for any change or deviation on account of factors beyond control.

INDEBO (INDIA) PVT LTD is not responsible for the re-routing of the itinerary due to flight and/or train cancellation. Any additional expenses necessitated by such an event will be borne by the client/s.

Seminar on
Automated Meter Reading (AMR)

On 4-5 September, 2008, at *Grand Hyatt* Singapore
Call for Sponsorship, delegations & Papers

Power Your Business in Indian Power Industries

REGISTRATION FORM (fill in BLOCK letters)
FAX TO +91-11-25611622

Please register me/us as a delegate/delegates

Name:

Designation:

Organization:

Address:

Phone/.Mobile.....

Country:

Post/Pin Code:

Fax :

E-mail :

Payment details:

Enclosed please find Bankers cheque/ Bankers

Draft No

Dated.....**for US \$/Rs**.....

drawn on

in favour of **Council of Power Utilities**

Designation

Signature



Automated Meter Reading (AMR)

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SPONSORSHIP FORM (fill in BLOCK letters)

FAX TO +91-11-25611622

I/We wish to be sponsor(s) for

Sponsorship Category

Name:

Designation:

Organization:

Address:

Phone/.Mobile.....

Country:.....

Post/Pin Code:

Fax :

E-mail :

Payment details:

Enclosed please find Bankers cheque/ Bankers

Draft No

Dated.....**for US \$/Rs**.....

Drawn on

in favour of Council of Power Utilities

Designation

Signature

Registration Form (fill in BLOCK letters)

FAX TO +91 11 2686 2122 BEFORE 01 AUGUST 2008

PARTICIPANTS DETAILS			
Last Name:		First Name:	
Last Name:		First Name:	
Organisation:		Mobile:	
Phone:		Fax:	
Email:			

Hotel			SGL	DBL
Park Hotel Orchard	Single/ Double	Rs.13,950.00	<input type="checkbox"/>	<input type="checkbox"/>
Holiday Inn Parkview	Single/ Double	Rs.13,600.00	<input type="checkbox"/>	<input type="checkbox"/>
Parkroyal on Beach Road	Single/ Double	Rs.13,250.00	<input type="checkbox"/>	<input type="checkbox"/>
Peninsula. Excelsior	Single/ Double	Rs.11,125.00	<input type="checkbox"/>	<input type="checkbox"/>

Yes, I would like to apply for Singapore Visa	<input type="checkbox"/>	
PASSPORT DETAILS		
Passport No.	Place of Issue	
Date of Issue	Date of Expiry	Date of Birth

Please book my airticket on	
Jet Airways <input type="checkbox"/>	Singapore Airlines <input type="checkbox"/>

Yes, I would like to book my airport transfer	One Way Transfer <input type="checkbox"/>	Two Way Transfer <input type="checkbox"/>
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Payment Calculation (In Indian Rupees):		
Room Tariff:	No. of nights:	Total Amount:
Air Fare:	No. of participants:	Total Amount:
Arrival Transfer	No. of Transfers:	Total Amount:
Visa Fees:		
Total Amount Payable:		

METHOD OF PAYMENT - PLEASE TICK ONE		
Credit Card		
AMEX <input type="checkbox"/>	VISA <input type="checkbox"/>	MASTER <input type="checkbox"/>
Credit Card Number	Expiration Date	
Security Code (number figuring on front or back of the card)		

Cardholder's Signature Name of the Cardholder Date

Note: Please fax us the copy of the front and reverse side of the credit card and identification page of your passport or voter's I-Card.