



**Sub: Technical Meet on Energy Efficiency in Commercial Building  
(22-23 January, 2007, Federation House, New Delhi)**

Commercial buildings in India have a vast scope for energy efficiency improvements. It is estimated that around 20-50 % of energy saving potential lies in this sector which is largely untapped , partly due to lack of effective energy management systems. As commercial buildings are significant consumers of energy, conservation in this sector is now becoming an energy security issue, in addition to environmental and economic concerns. EC Act 2003 also gives special thrust in energy efficiency of Commercial Buildings

Recognizing the above imperatives, **FICCI** and **Petroleum Conservation Research Association (PCRA)**, a wing of the Ministry of Petroleum & Natural Gas, Govt of India is organizing a **2-day Technical meet on Energy Efficiency in Commercial Building** on **22-23 January 2007** at Federation House, Tansen Marg, New Delhi-110001 to discuss the above issues and identify latest state of art of Technology/Practice etc.

This programme incidentally coincides to the observance of **Oil Conservation Fortnight** that will be celebrated throughout the country. The details of the programme are attached with this letter.



**Technical Meet on Energy Conservation in Commercial Building**  
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**Highlights**

- ❖ Overview of Building Energy Management Systems (BEMS)
- ❖ Building energy scenario in Indian context and progress so far
- ❖ Demand side management (DSM) in BEMS
- ❖ Energy Efficiency avenues in Commercial buildings
  - Electrical Distribution systems
  - Reactive Power Management
  - Lighting system
  - Heating, Ventilating and air-conditioning (HVAC)
    - Window and Central AC /Air Handling Units /Cooling Tower /Air Humidifiers
  - Water Pumping
  - Controls and sensors
  - Diesel Generator (DG) sets
- ❖ Building Energy Monitoring and Accounting system
  - Record, compile and analysis of energy data
  - Building energy auditing methodology
- ❖ Successful Case Study Presentation

**Target Group**

The target groups are Maintenance Engineers, facility engineers, Administration Executives, Engineering Managers, in Commercial Buildings, Government/ Private Establishments, Hospitals, Hotels, Banks, Residential Complexes/ Townships, Airports, Malls, IT Parks etc

**Faculty**

Apart from the experienced consultants of FICCI and PCRA , experts will be drawn from **Government organisations, consultants, leading equipment manufacturers** to make presentation on various topics.

**Duration & Venue**

**Date : 22-23 January 2007 (1000 hrs to 1730 hrs, both days)**  
**Venue : Federation House, Tansen Marg, New Delhi-110001**

**Nomination Fee**

To meet the expenditure, a nomination fee of **Rs 5000/- per candidate** is charged. Organisations sponsoring three or more participants will pay @ **Rs 4000/- per candidate**, which shall be payable by Cheque/DD drawn in favour of **Federation of Indian chambers of Commerce and Industry, New Delhi**

*For more information kindly contact:*

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## **TECHNICAL MEET ON ENERGY CONSERVATION IN COMMERCIAL BUILDINGS**

Date 22<sup>nd</sup> & 23<sup>rd</sup> Jan. 2007

Venue Federation House, Tansen Marg, New Delhi

SNo	Title	Time (Hrs)	
		From	To
<b>DAY-1: 22nd JANUARY 2007</b>			
<b>INAUGURAL SESSION</b>			
Welcome of Dignitaries on Dais with Bouquet		1000	1005
Welcome Address	Mr B Sam Bob Executive Director , PCRA	1005	1015
Keynote Address	Dr Albrecht Kaupp Head Indo-German Energy Programme	1015	1030
Inaugural Address	Mr Anil Razdan Add. Secretary, MOP&NG, GOI	1030	1040
Vote of Thanks	Mr Rajan Kohli Dy. Secretary General, FICCI	1040	1043
Presentation of Mementoes to Dignitaries		1043	1045
<b>Tea/ Coffee Break</b>		<b>10.45</b>	<b>11.00</b>
<b>SESSION 1: Overview on BEMS/International Experience</b>			
<b>1.</b>	<b><i>Climate Responsive Architecture &amp; Energy Efficiency</i></b> Prof Arvind Krishan School of Planning & Architecture, New Delhi	1100	1145
<b>2.</b>	<b><i>Building Energy codes</i></b> Mr. Tanmoy Tathagat Indian Institute of Energy Conservation, New Delhi	1145	1230
<b>3.</b>	<b><i>Energy Conservation Law in Japan</i></b> Mr. Takashi Sato, Tech. Expert, Energy Conservation Centre Japan	1230	1315
<i>Lunch break</i>		<b>1315</b>	<b>1400</b>
<b>SESSION 2: Energy Conservation Avenues</b>			
<b>4.</b>	<b><i>Electrical Load Management in Buildings</i></b> Mr. S.P. Garnaik Deputy Director, FICCI	1400	1445
<b>5</b>	<b><i>Building Energy Efficiency through Lighting</i></b> <b>Mr. Pankaj Sharma,</b> <b>Vice President, Asian Electronics</b> <b>Limited</b> New Delhi	1445	1530
<i>Tea Break</i>		<b>1530</b>	<b>1545</b>
<b>6</b>	<b><i>Energy Conservation in Building Lighting System</i></b> <b>Mr. Rajat Mandal,</b> <b>G.M. (Mktg.), Osram Electricals</b> <b>Limited</b> <b>New Delhi</b>	1545	1620
<b>7.</b>	<b><i>Building Energy Conservation in Air Conditioning</i></b> Mr. Ashwini Kumar, Director (Tech. Services), Voltas (I) Ltd. <b>Mumbai</b>	1620	1700

<b>SESSION 3 : Standby Energy Sources</b>				
<b>8</b>	<b>O &amp; M of Diesel Generating Sets for Energy Efficiency</b> Mr. Puneet Sharma, GM (Marketing), Cummins Pune	1700	1730	
<b>9</b>	<b>ENCON options in DG Sets</b> Mr. M. Phukan, Dy Director, PCRA	1730	1800	
<b>DAY-2: 23rd JANUARY 2007</b>				
<b>SESSION 4: Building Energy Management</b>				
<b>10.</b>	<b>Building Energy Efficiency</b> Mr. Yoshitaka Ushio, Technical Expert, Energy Conservation Centre Japan	1000	1045	
<b>11.</b>	<b>Water Management for achieving Energy Conservation</b> Mr. D.S. Channi GM, Danfoss (I) Ltd., New Delhi	1045	1115	
<b>Tea break</b>		<b>1115</b>	<b>1130</b>	
<b>12</b>	<b>Energy Monitoring and accounting systems</b> Mr. S.P. Garnaik Deputy Director, FICCI	1130	1215	
<b>13.</b>	<b>Non conventional Energy Application</b> Mr. Rahul Khetrapal Area Manager, Tata BP Solar (I) Ltd Bangalore	1215	1300	
<b>Lunch break</b>		<b>1300</b>	<b>1345</b>	
<b>SESSION 5 : Building Automation</b>				
<b>14</b>	<b>Energy Conservation through Building Automation</b> Mr. Agarwal Territory Manager, Somfy New Delhi	1345	1415	
<b>15</b>	<b>Building Automation for Energy Efficiency</b> Mr. S Subramaniam Larsen & Toubro, New Delhi	1415	1445	
<b>SESSION 6 : Special Focus Areas</b>				
<b>16</b>	<b>Energy Conservation through landscaping</b> Mr. S. Soneja School of Planning & Architecture New Delhi	1445	1515	
<b>17</b>	<b>Rain water harvesting</b> Mr.S.Saiphy, Centre for Science & Environment, New Delhi	1515	1545	
<b>18</b>	<b>Fenestration &amp; Window Designing</b> Mr. Rohit Sharma, GM (Mktg),Fenesta Building System New Delhi	1545	1615	
<b>Tea Break</b>		<b>1615</b>	<b>1630</b>	

<b>SESSION 7 : Case Studies</b>				
<b>19</b>	<b>Case studies (4numbers)</b>			
	PCRA	Mr. M.V.V. Sarma, Jt. Director	1630	1650
	FICCI	Mr. S.P. Garnaik, Dy. Director	1650	1715
	BEE	Mr. S. Sabharwal, Energy Economist	1715	1740
	PCRA	Mr. Sanjay Goyal, Jt. Director	1740	1800