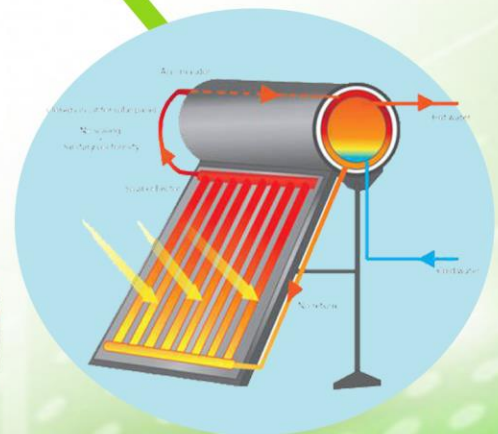
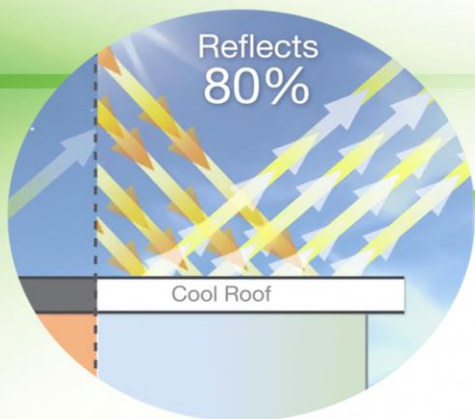




ENERGY CONSERVATION MISSION
THE INSTITUTION OF ENGINEERS (INDIA)
TELANGANA STATE CENTRE



One - Day Seminar on
“COOL, GREEN & POWER ROOFS”
20th MAY, 2019
&
“Exhibition”
19th & 20th May, 2019



With best compliments from:



Venue:

**“Visvesvaraya Bhavan”,
 Khairatabad, Hyderabad - 500 004**

Phone: 040-23314969, Mobile: 9966571573, E-Mail: ecmieitsc@gmail.com | ieitelangnasc@gmail.com

Website: www.ieitsc.org, Twitter: @ECMIEITSC, Facebook: Energy Conservation Mission

ABOUT THE INSTITUTION OF ENGINEERS (INDIA)

The Institution of Engineers (India) or IEI is the largest multidisciplinary professional body that encompasses 15 Engineering disciplines and gives engineers a global platform from which to share professional interest. IEI has membership strength of more than 0.8 million. Established in 1920, with its headquarters at 8, Gokhale Road, Kolkata – 700 020, IEI has served the engineering fraternity for over nine decades. During this time, it has been inextricably linked with the history of modern day engineering. In 1935, IEI was incorporated by Royal Charter and remains the only professional body in India to be accorded this honour. Today, its quest for professional excellence has given it a place of pride in almost every prestigious and relevant organization across the globe. IEI functions among professional engineers, academicians and research workers. It provides a vast array of technical, professional and supporting services to the government, industries, academia and the engineering fraternity, operating 123 Centres located across the country. The Institution provides grant-in-aid to its members to conduct research and development on engineering subjects.

THE INSTITUTION OF ENGINEERS (INDIA), TELANGANA STATE CENTRE

The Telangana State Centre of the Institution of Engineers (India) has been formed after bifurcation of erstwhile Andhra Pradesh.

The Telangana State Centre of the Institution of Engineers (India) has on its rolls more than 7584 Corporate Members covering fifteen disciplines of engineering besides non- Corporate Members in the order of 19791. The Telangana State Centre has been one of the most active Centres of the Institution of Engineers (India); which is engaged in successfully translating the objectives and ideals of IEI into practice. The present Telangana State Centre is the legacy of erstwhile Hyderabad State Centre of Nizam's Hyderabad State.

ENERGY CONSERVATION MISSION, IEI, TSC

Energy Conservation Mission (ECM) has been formed in the December 2003 with the active involvement of many energy passionate practising professionals, who work on a voluntary basis, to ensure efficient and optimal usage of energy in all its forms and dimensions; to spread the message of perceived proper usage of energy to all consumers of energy; and for spreading the inter-relatedness of Energy and Environment and Resource utilization. Energy Conservation Mission is functioning as a wing of the Institution of Engineers (India), Telangana State Centre. ECM conducts many energy audits and seminars in different institutions working towards enhanced energy efficiency goals. ECM also organizes technical lectures in Schools and Colleges on a voluntary basis. ECM celebrates Energy Conservation Week from 14th to 20th December; every year also conducts a wide range of programmes across the state and encourages participation of all stakeholders there in.

About the Seminar on “COOL, GREEN AND POWER ROOFS”

Cool Roofs are roofs consisting of materials that very effectively reflect the sun's heat energy from the roof surface, into the atmosphere, thus preventing overheating of buildings.

A tropical country like India has abundant sunlight throughout the year and particularly in the summer. In summer, the effect of heat is more on community, environment and quality of life. The sun light falling on the buildings or various structures causes absorption of a lot of heat. To cool buildings and other concrete structures, traditionally we depend on various cooling systems, which consume large amount of energy.

US, EPA research shows that electricity demand for cooling increases by 1.5–2.0% for every increase of 1°F (0.6°C) in temperature.

COOL ROOFS:

The heat absorption in buildings can be reduced by using a 'cool roof' on the roof top of buildings. A cool roof is one that has been designed to reflect more sunlight and absorb less heat than a standard roof. Cool roofs can be made of a highly reflective type of paint or a sheet covering or tiles or shingles.

Benefits of Cool Roofs: Cool roof reduces thermal heat island & reduces cooling energy costs and increases comfort level by reducing temperature fluctuations inside building. Average energy savings range from 7% to 15% of total cooling cost.

GREEN ROOFS:

Green roof is a roof that is covered with plants/vegetation; which helps to cut down absorption of heat and reduces heat ingress from roof. The benefits of a green roof are similar to those of a cool roof viz., reduction in cooling energy costs, reduction of heat islands in the environment. An additional benefit is that it also reduces storm water runoff.

POWER ROOFS:

Solar roof complements building architecture while turning sunlight into electricity. With an integrated power wall battery, energy collected during the day is stored and made available any time.

India has a rooftop energy generation potential of 124 GW against our present total energy generation capacity of 330 GW. Even if only 1.3% of India's households from a total

2,48,408,494 are solarized with rooftop technology more than 30% of that estimated energy can be harnessed.

India has reached a solar rooftop generation capacity of 1.7 GW (approx.), within a short span of time. However, the proposed target of generating 40 GW by 2022 is still far away and would require a faster adoption framework.

Installation of solar PV panels on the roof top of buildings generates electricity; besides preventing heat from penetrating to the building; which can lower the roof temperature to the extent of 5°F (3°C). Countrywide solar power adoption depends upon affordability, enhanced energy efficiency, growth in awareness and involvement of the common man.

Power roofs offer an economically feasible cooling solution for large building and concrete structure.

This seminar is aimed to discuss the concepts and methods of cooling existing roofs and to explore, easy and cost effective methods to install rooftop solar power plants for clean & green generation including solar water heaters.

The programme is targeted to involve all the practicing energy professionals, government bodies (State and Central) and particularly more of common public to move fast towards these installations.

SUB-THEMES:

- I. COOL PAINTINGS
- II. COOL SHEETS & TILES
- III. ROOF INSULATION
- IV. ROOF GARDENS
- V. SOLAR PV PANELS AND HYBRID (SOLAR & WIND) RENEWABLE ENERGY
- VI. SOLAR WATER HEATER'S

EXHIBITION: 19th&20th May, 2019

An **Exhibition** will be organized with exhibition from various manufacturers of “Cool, Green and Power Roofs” on 19th & 20th May, 2019. All the general public are invited. A special invitation will be sent to 3919 colony welfare associations of Greater Hyderabad to enlighten the public on the importance, need and advantage of adopting the latest technologies of “Cool, Green and Power Roofs”.

PROGRAMME: 20th May, 2019

09.30 – 10.00 hrs	Registration
10.00 – 10.45 hrs	Inaugural Session Key Note Address: Er E Srinivasa Chary , FIE Chairman, ECM of IEI, TSC
10.45 - 11.00 hrs	High Tea
11.00 – 11.30 hrs	“Cool Roofs, Case Study & its Implementation Policy in Telangana” - Shri Rajkiran V Bilolikar , Associate Professor, Energy Area, ASCI
11.30 – 12.00 hrs	“Aesthetically Appealing Energy Efficient Tiling Solutions for Cool Roofing” - Ar.Er.S.P.Anchuri , Chief Consultant, Anchuri & Anchuri
12.00 - 12.30 hrs	“Global Scenario of Cool Roofs” - Shri Prima Madan , Consultant, NRDC
12.30 - 13.00 hrs	“Cool Roof Technology” - Dr. Srinivas Cherukupalli , Dupont
13.00 - 13.45 hrs	Lunch
13.45 - 14.30 hrs	“Role of Green Roofs and Lanscaping in reducing urban Heat island effect” - Shri V. Krishna , Additional Commissioner, Urban Bio Diversity, GHMC
14.30 - 15.00 hrs	“Renewable energy & Power Roofs” - Er D V Ramakrishna Kumar , Project Director, TSREDCO
15.00 – 15.15 hrs	“PV Port & Store System” - GIZ(Germany), New Delhi
15.15 – 15.30 hrs	“Solar Water Heater”
15.30 - 16.15 hrs	Panel Discussion
16.15 – 16.30 hrs	Tea
16.30 - 17.00 hrs	Valedictory Function

PARTICIPATION: Experts from various organizations in the industries Sector, educational institutions and Consultancies are invited to participate in the deliberations of the Seminar. This will enable them to meet the challenges of the new millennium in the scenario of fast changing technologies.

CALL FOR PAPERS: Technical papers are invited on The Theme / Sub-theme of the Seminar on “Cool, Green and Power Roofs”.

Each technical paper contributed by an author may not exceed 5000 words, with relevant tables and figures (each table / figure shall be equivalent to 500 words) in MS Word.

Authors of selected papers for printing will be honored with memento & certificate in the Valedictory function i.e. 20.05.2019.

Last Date for receipt of full paper with soft copy by email is on 13th May, 2019.

REGISTRATION: Interested participants shall register as delegate in advance by payment of registration fee as indicated below, along with submission of a duly filled registration form.

College Students	Rs. 300/-
Corporate Members of IEI	Rs. 500/-
Non-Member – Individual	Rs. 1000/-

- NOTE:** 1. 18% GST (Including)
2. Only Registered delegates will be providing with free Lunch & Seminar material.

SPONSORSHIP:

The ECM requests financial support from sponsors to conduct the programme and propagate the need for cool roofs.

Sponsors will be recognized by way of printing their organizational names & logos on the programme banners to be displayed at the Venue, information booklets and other materials to be supplied during the programme.

The stalls will be reserved on first come first served basis; and as such, organizations may apply for allotment of stalls, on or before 13.05.2019.

Tariff for sponsor is as follows:

Category	Sponsorship amount	Benefits
Platinum Sponsor	Rs.1,00,000/-	10 delegates Free
Gold Sponsor	Rs.50,000/-	5 delegates Free
Silver Sponsor	Rs.25,000/-	3 delegates Free
Sponsorship One Lunch	Rs.20,000/-	2 delegates Free
High Tea	Rs. 8,000/-	1 delegates Free
Stall (for 2 Days)	Rs. 15,000/- (Each one)	2 delegates Free

GST18% EXTRA

Organizations interested to sponsor various activities pertaining to the seminar and the exhibition - may send their details with payment by way of A/C payee Cheques / Demand Draft / RTGS / NEFT in favour of "IEI-ENERGY CONSERVATION MISSION" payable at Hyderabad.

BANK ACCOUNT DETAILS:

- | | |
|------------------------------|-----------------------------------------------------------------------------------------------|
| 1. Name of the Beneficiary: | IEI-ENERGY CONSERVATION MISSION |
| 2. Name of the Bank & Branch | State Bank of India
PBB, Raj Bhavan Road Branch Khairatabad,
Hyderabad – 500 004 |
| 3. Account No. | 30272008405 |
| 4. IFSC Code | SBIN0004159 |

Note: Payments can also made through  Paytm,  PhonePe,  Google Pay to the above Account.

CONTACT

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Er T Anjaiah, FIE
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Cell: 9347514539

Er Y Bhujanga Rao, FIE
Convener, ECM, IEI, TSC
Cell: 9989988980

All Corresponding may be addressed to:
The Chairman
Energy Conservation Mission
The Institution of Engineers (India)
Telangana State Centre
"Visvesvaraya Bhavan", Khairatabad Hyderabad – 500 004
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 www.ieitsc.org  @ECMIEITSC

 Energy Conservation Mission

REGISTRATION FORM

A Seminar – Cum – Exhibition on “Cool, Green & Power Roofs”

19th & 20th May, 2019

1. Name (Block Letters):
2. Designation & organization / Institution:
.....
.....
3. Address:
4. Email:
5. Mobile Number:
6. IEI Membership Grade & Number:
7. Registration Fee enclosed Rs. :
8. Mode of payments: A/C Payee Cheque / RTGS / NEFT

Bank Account Details:

Name of the A/c: **IEI-ENERGY CONSERVATION MISSION**

Name of the Bank & Branch: **State Bank of India,**

PBB, Raj Bhavan Road Branch Khairatabad,

Hyderabad – 500 004

Account No.: **30272008405**

IFSC Code: **SBIN0004159**

Signature of delegate

Note: for addl. Registration, Xerox of this form may be used.

All Corresponding may be addressed to:

The Chairman

Energy Conservation Mission

The Institution of Engineers (India)

Telangana State Centre

“Visvesvaraya Bhavan”, Khairatabad Hyderabad – 500 004

Phone: 040-23314969, Mobile: 9966571573

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