

MBS SCHOOL OF PLANNING AND ARCHITECTURE

SECTOR-9, DWARKA, NEW DELHI

GGSIP University

REPORT

Webinar on

Eco-Niwas Samhita 2018

Date	:	18 th Sep 2020.
Resource Persons	:	Team of Experts from PwC and BEE
Time	:	11:00 am– 1:00 pm
Venue	:	Online Webinar

The Ministry of Power, along with, Bureau of Energy Efficiency, formulated ECBC (Energy Conservation Building Code) for residential buildings, **Eco-Niwas Samhita 2018**, with an eminent team of experts to set up minimum standards for energy efficiency in residential buildings design. PwC (PricewaterhouseCoopers Private Limited) was the implementing agency in the selected states of India which are Delhi, Punjab and Uttar Pradesh.

An online Webinar on “**Eco-Niwas Samhita 2018**” had been organized by PwC to create “**ENS Awareness, Training and Capacity Building**” program for Architecture Students of MBS School of Planning & Architecture, Dwarka, New Delhi specially for B.Arch 3rd Year and B.Arch 4th Year Students on Friday, 18th Sep 2020 from 11:00 am to 1:00 pm.



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Ms Pooja Aggarwal from PwC had initiated the session. The brief about the organizers, implementing agency and their role was discussed by Mr. T C Sharma from PwC. He has also discussed the objective of the webinar and the applicability of “ENS” for the composite climate of delhi

A welcome note was addressed by Ar. Manisha Singh Taneja, Assistant Professor, MBS SPA for all the panelist, team of experts and students of MBS SPA for joining the webinar.

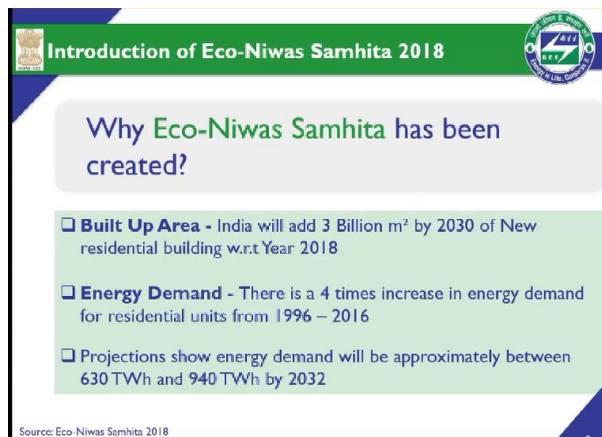
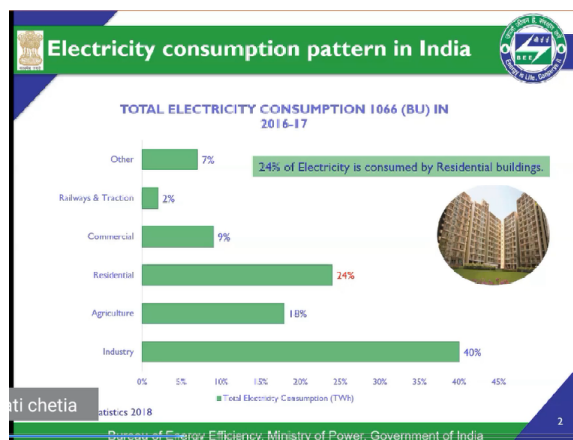
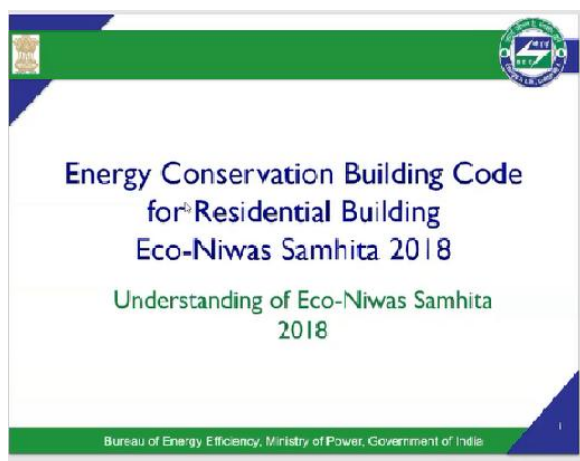
Ms Akanksha Krishan and Mr. Vikas Ranjan, member from the team of experts had then discussed about the current growth and need of the residential sectors in India.

The total energy consumption in India, 34% of energy is consumed by the buildings alone and out of this 34% , its 24% is consumed by the residential buildings only.

Eco Niwas Samhita regulates the construction of residential buildings formulated by ECBC to reduce the energy consumption in residential building

The session was then taken over by Ms Shaswati Chetia, Master Trainer of ECBC ENS-2018. Ms Shaswati Chetia is an Architect and Environmental Planner and currently she is Senior Programme Officer at Indo Swift Building and Energy Efficiency Programme

Ms Shaswati started by introducing the Eco-Niwas Samhita-2018.



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Ms Chetia compared the past residential buildings with the modern high rise residential apartments. She tweaked the reason behind the increased demand of energy for the multi storied residential buildings.

Have you observed buildings in past & present...

Residential In Past	Residential In Present
<input type="checkbox"/> Low Rise	<input type="checkbox"/> Mid & High Rise
<input type="checkbox"/> Adequate Shading	<input type="checkbox"/> Shading Limited By Bye laws
<input type="checkbox"/> Central Courtyard	<input type="checkbox"/> Clustering Around Central Greens
<input type="checkbox"/> Emphasis On Natural Cross-Ventilation	<input type="checkbox"/> Limited Natural Ventilation – Single Sided
<input type="checkbox"/> Proper Orientation	<input type="checkbox"/> Low Or No Emphasis On Orientation
<input type="checkbox"/> Local Construction Materials	<input type="checkbox"/> Global Construction Materials
<input type="checkbox"/> Priority On Thermal Comfort	<input type="checkbox"/> Priority On Speedy Construction
<input type="checkbox"/> Climate Responsive Design	<input type="checkbox"/> Poor Climate Responsive Design

Bureau of Energy Efficiency, Ministry of Power, Government of India

Reason behind the shift in design...

- Rapid Urbanization
- Need for Mass Affordable Housing
- Higher Real-Estate Value
- Availability & Abuse of Technologies
- Acceptance to Global Design Philosophy

Bureau of Energy Efficiency, Ministry of Power, Government of India

The deviation of design and construction technology of the low rise residential buildings of the past towards the modern high rise buildings leads to the increased energy demands

Ms Chetia also discussed various methods and calculations that are the part of ENS-2018 and will be helpful in creating Green Residential Buildings. The next presentation was delivered by Ms. Prachi from ENS who further elaborated on the variety of materials to be used and how they reduce the energy consumed by the buildings.

The Webinar ended with a question answer session. The attendees asked their questions and the panelist attended each question and resolved the queries of the students. The ENS team also organized a quiz for the students who participated which was quite entertaining and informative for the students.

MBS School of Planning and Architecture thanked PwC and BEE team for taking out time and giving the students such a beneficial webinar

Report Prepared by:
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