

Brief Writeup on Items to be launched during National Energy Conservation Awards, 2020

(A) Standards & Labelling Program

(i) Air Compressors:

Air compressor is high energy guzzler equipment which is widely used in industrial, agricultural, scientific, and medical applications.

Salient features of the program

- The program covers electrically driven positive displacement, fixed speed rotary and reciprocating, oil lubricated/oil-injected, air-cooled and water cooled, air compressor having a full load operating gauge pressure greater than equal to 500 kPa or 5 bar[g] and motor rating between 0.37 to 500 kW with rated voltage of 230 / 415 V and frequency 50Hz AC covered under the scope of IS 5456 and IS/ISO 1217: 2009 with all its amendments.
- Compressors covered shall be rated based upon their isentropic efficiency.
- The organized market of Air compressor in India is growing at a CAGR of 4% and stood at 1.35 Lakhs in 2018-19. While the unorganized market is expected to be about 2 lakhs in 2018-19.
- Through this program, cumulative energy savings of 8.41 BU and corresponding 6.9 MtCO₂ emissions mitigation is expected by 2030.
- The program is intended for launch in a voluntary mode initially for a period of two years from 1st January 2021 till 31st December 2022.

(ii) Ultra High Definition (UHD) Television:

- A standard and labeling program for colour televisions with screen resolution up to 1,920 x 1,080 pixels (called Full HD or FHD resolution) was launched in 2009 and subsequently the program has been mandated from 2016.
- While, a new technology commercially known as Ultra High Definition (UHD) television, is available in the market since the last few years and this technology is not covered under BEE's existing program for televisions.
- UHD televisions have a much higher pixel count than televisions with screen resolution up to 1,920 x 1,080 pixels, and it was found that they consume much more energy than HD or FHD televisions. The program covers Ultra-High Definition (UHD) televisions of Liquid Crystal Display with LED backlighting, OLED displays, QLED displays, Micro-LED displays, that may be utilised to make and sell UHD televisions in the Indian market having native resolution of 3,840 x 2,160 pixels (4K) and 7,680 x 4,320 pixels (8K) which can be powered only by an external power supply at a voltage not exceeding 250 V ac, 50 Hz being manufactured, imported and commercially purchased or sold in India.

Salient features of the Program

- The overall market of UHD television in India is growing at a CAGR of 33% and is estimated to be approximately 1.3 million units in the FY 2018-19.
- The Star rating of Ultra High Definition (UHD) television of 4K and 8K screen resolution would be based on Annual Energy consumption (AEC) of the appliance in accordance with IEC 62087:2015 edition 1.
- Through this program, cumulative energy savings of 9.75 TWh (Billion Units of Electricity) and corresponding 8 Million ton (MT) CO₂ emissions mitigation is expected by FY 2030.
- The program is intended for launch in a voluntary mode for UHD television, 4K and 8K screen resolution initially for a period of one year from 1st January, 2021 till 31st December, 2021 after which the UHD star labelling program may be merged with the on-going mandatory program for Colour televisions from 1st Jan, 2022 onwards as the IS/IEC standards followed are same for both appliances.

(B) State-wise Actions on Annual Targets and Headways on Energy Efficiency (SAATHEE) – Interactive web-portal for SDAs

Bureau of Energy Efficiency (BEE) has developed a Management Information System (MIS) portal namely State-wise Actions on Annual Targets and Headways on Energy Efficiency (SAATHEE). The main objectives of the SAATHEE web-portal are as follows.

- It will be useful in capturing physical and financial status/progress of Energy Efficiency activities being implemented by States/UTs across the country.
- It will facilitate in real-time monitoring of the progress of implementation of all the Energy Efficiency and Energy Conservation endeavours such as demonstration projects, awareness campaigns, capacity building workshops, etc. being carried out by SDAs at State-level.
- It will also help in decision making, coordination, control, analysis, and implementation and enforcement of compliance process for various energy consumers at PAN India level.
- This MIS portal would present the physical and financial progress of SDAs in the form of multiple reports and provide tracking of progress made by the SDAs
- The portal shall also facilitate BEE in providing information regarding best practices, major achievements and upcoming important events of each SDA.

The screenshot displays the SAATHEE web-portal interface. At the top, the Bureau of Energy Efficiency logo and name are visible, along with navigation menus for HOME, ABOUT SDA, PROGRAM, DOWNLOAD, CONTACT US, QUICK LINK, PAY, ONLINE CHAT, and SEEI-2020. A search bar is located on the right. Below the header is a banner image showing several officials holding documents. The main content area is divided into several sections: a map of India titled 'State Designated Agencies in India' showing various states and their designated agencies; a 'Latest Updates' section with three news items dated 15 Sep 2020; a login form with fields for Email Id and Password, and buttons for Login, Reset, and Register; and social media links for Facebook and Twitter. The footer contains the Bureau of Energy Efficiency logo, the Government of India Ministry of Power logo, the Ministry of Environment, Forest and Climate Change logo, and the Ministry of New and Renewable Energy logo. It also includes a newsletter subscription form, social media icons, and contact information.