

SPIBEAT Pro (Spatially Integrated Building Energy Assessment Tool)-

“Empowering DISCOMs through SPIBEAT Pro for Smarter Energy Planning”

CEA has developed a digital tool – **SPIBEAT Pro** (Spatially Integrated Building Energy Assessment Tool) – in collaboration with *The Celestial Earth (TCE)*, as an initiative to promote digitalisation in the distribution sector.

2. Focused studies using SPIBEAT Pro with active support from distribution companies can be carried out. These studies aim to facilitate data-driven planning in renewable energy integration, battery storage, and demand-side management.
3. The proposed objectives of the studies are outlined below.
 - (i). **Assessment of Battery-Integrated Rooftop Solar Potential**
The potential for rooftop solar installations integrated with battery storage systems will be assessed for a selected area, as identified by DISCOMs with CEA's support.
 - (ii). **Behind-the-Meter Assessment of Load Profile and Validation**
Building-wise load profile assessments and validations will be conducted for a selected area provided by DISCOMs.
 - (iii). **Demand Response and Flexibility Study at the Building Level**
The potential for building-level demand response and flexibility will be evaluated for selected areas provided by DISCOMs, leveraging SPIBEAT Pro's appliance-level load profiling capability.
4. Initially, the following Delhi DISCOMs have been selected for pilot studies:
 - BSES Yamuna Power Limited
 - BSES Rajdhani Power Limited
 - Tata Power Delhi Distribution Limited
5. Any other DISCOM interested in exploring digitalisation of their distribution network is encouraged to reach out to Central Electricity Authority at ce-rndcea@nic.in. (Telephone no. 011-26732257).
