IEEE CPE-POWERENG 2023
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Special Session on
“Demand Side Flexibility and Energy Management”

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Call for Papers

Theme: Demand side flexibility and energy management
Demand side flexibility and energy management refer to the ability of individual consumers to adjust their electricity consumption in response to changes in the grid. This can be achieved through a variety of means, including the use of smart appliances and devices and energy storage systems, the implementation of demand response programs, and the integration of renewable energy sources. Energy management, on the other hand, involves the use of data and analytics to optimize the use of energy resources, and to improve the performance of the grid. This can include the use of real-time monitoring and control systems, as well as the implementation of predictive algorithms and other advanced technologies.
Topics of interest include, but are not limited to: Provide a list of 5-10 special areas

1. Smart grids and the role of demand side flexibility in improving grid performance.
2. The potential for renewable energy sources, such as solar and wind power, to provide demand side flexibility.
3. The use of advanced technologies, such as artificial intelligence and machine learning, to optimize energy management.
4. The integration of electric vehicles into the grid and the potential for vehicle-to-grid technology to provide demand side flexibility.
5. The role of energy storage in enabling demand side flexibility and improving the reliability of the grid.
6. The development of innovative pricing and incentive structures to encourage demand side flexibility among consumers.
7. The potential for demand side flexibility to reduce greenhouse gas emissions and support the transition to a low-carbon energy system.
8. The challenges and opportunities associated with integrating demand side flexibility into existing energy markets and regulatory frameworks.

Sponsoring Technical Committee:
IEEE IES Technical Committee on Smart Grids.

Submissions Procedure:
All the instructions for paper submission are included in the conference website: http://cpepowereng2023.com/

Deadlines:
- Full paper submission: January 15, 2023
- Paper acceptance notification: April 7, 2023
- Camera-ready paper submission: May 4, 2023