**Project subjects are given as follow:**

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| --- | --- |
| **Number** | **Title** |
| **1** | Decision-Making Models for the Participants in Cloud Energy Storage |
| **2** | [Robust Stochastic Dynamic Load Dispatch Against Uncertainties](https://ieeexplore.ieee.org/document/7891021/) |
| **3** | Information Masking Theory for Data Protection in Future Cloud-Based Energy Management |
| **4** | Opportunities for Price Manipulation by Aggregators in Electricity Markets |
| **5** | Robust Security Constrained ACOPF via Conic Programming: Identifying the Worst Contingencies |
| **6** | A Highly Efficient Bad Data Identification Approach for Very Large Scale Power Systems |
| **7** | [Integrated Day-Ahead Scheduling Considering Active Management in Future Smart Distribution System](https://ieeexplore.ieee.org/document/8374981/) |
| **8** | [Impacts of Residential Energy Management on Reliability of Distribution Systems Considering a Customer Satisfaction Model](https://ieeexplore.ieee.org/document/8334575/) |
| **9** | [Residential Demand Forecasting With Solar-Battery Systems: A Survey-Less Approach](https://ieeexplore.ieee.org/document/8253886/) |
| **10** | A General Model for Thermal Energy Storage in Combined Heat and Power Dispatch Considering Heat Transfer Constraints |
| **11** | Clustering-Based Coordinated Control of Large-Scale Wind Farm for Power System Frequency Support |
| **12** | Adaptive Robust Self-Scheduling for a Wind Producer With Compressed Air Energy Storage |
| **13** | Energy Storage Siting and Sizing in Coordinated Distribution and Transmission Systems |
| **14** | Economic Benefits of Integrating Solar-Powered Heat Pumps Into a CHP System |
| **15** | [Reliability Evaluation of Smart Distribution Systems Considering Load Rebound Characteristics](https://ieeexplore.ieee.org/document/8303779/) |
| **16** | Electrical Vehicle Charging Station Profit Maximization: Admission, Pricing, and Online Scheduling |
| **17** | A Decentralized Renewable Generation Management and Demand Response in Power Distribution Networks |
| **18** | Optimal Operation Strategy for Integrated Natural Gas Generating Unit and Power-to-Gas Conversion Facilities |
| **19** | An Energy Management Strategy of Hybrid Energy Storage Systems for Electric Vehicle Applications |
| **20** | An Efficient Forecasting-Optimization Scheme for the Intraday Unit Commitment Process Under Significant Wind and Solar Power |
| **21** | Coordination of Wind Farm and Pumped-Storage Hydro for a Self-Healing Power Grid |
| **22** | [Control of Charging of Electric Vehicles Through Menu-Based Pricing](https://ieeexplore.ieee.org/document/7914766/) |
| **23** | [Risk-Sensitive Learning and Pricing for Demand Response](https://ieeexplore.ieee.org/document/7917354/) |
| **24** | Hierarchical Distributed Robust Optimization for Demand Response Services |
| **25** | A Two-Layer Energy Management System for Microgrids With Hybrid Energy Storage Considering Degradation Costs |
| **26** | [Virtual Associations of Prosumers for Smart Energy Networks Under a Renewable Split Market](https://ieeexplore.ieee.org/document/7924428/) |
| **27** | A Risk-Based Optimization Model for Electric Vehicle Infrastructure Response to Cyber Attacks |
| **28** | Impact of the Uncertainty of Distributed Renewable Generation on Deregulated Electricity Supply |
| **29** | [Active Distribution Grid Management Based on Robust AC Optimal Power Flow](https://ieeexplore.ieee.org/document/7932508/) |
| **30** | Distributed Coordination of EV Charging With Renewable Energy in a Microgrid of Buildings |

**General project subjects are given as:**

|  |  |
| --- | --- |
| **Number** | **Title** |
| **1** | Load disaggregation methods |
| **2** | Energy management in district heating systems |
| **3** | Load unbalance mitigation in distribution systems |
| **4** | Zero energy buildings |
| **5** | Energy management in data centers |
| **6** | Thermal energy storage systems |
| **7** | Demand response programs in Microgrids |
| **8** | Electric vehicle aggregator participation in Energy markets |
| **9** | Load forecasting in microgirds |
| **10** | Decomposition techniques for generation expansion planning in power systems |
| **11** | Virtual power plans participation in joint energy and reserve markets |
| **12** | Resilient energy systems |
| **13** | Prosumer scheduling in energy systems |
| **14** | Lessons learned from recent blackouts in power systems |
| **15** | Economic dispatch in energy hubs |
| **16** | Multi carrier energy storage systems |
| **17** | Security constrained OPF |
| **18** | Optimal scheduling of the energy hubs |
| **19** | Distribution system reconfiguration |
| **20** | Energy management in fuel cell based systems |
| **21** | Risk based methods for generation scheduling |
| **22** | Robust scheduling of electrical energy systems |
| **23** | Residential renewable energy sources |
| **24** | Scheduling and planning of energy storage systems in electrical energy systems |
| **25** | Economic-technical analysis of integration of storage technologies in power systems |
| **26** | Smart homes |
| **27** | Bi-level programming in power systems |
| **28** | Optimal design of hybrid energy systems |
| **29** | Plug-in electric vehicles parking lot |
| **30** | The nexus of food water and energy |
| **31** | Information decision gap theory application in probabilistic analysis of the systems |
| **32** | Power to gas application n energy hubs |