

Energy Trading and Operations at Distribution Level

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With rapid deployment of IoT technologies and renewable energy integration, energy systems are experiencing fast transition towards AI and data driven systems today. This complex system involves physical energy systems, both primary (e.g. gas) and secondary (i.e. electricity) systems with high level of active user participation. The conventional distribution system operations and planning can no longer meet the needs for systems and economic efficiencies. This talk will cover a framework of data drive energy system with key technologies for trading of electricity, demand side energy management, advanced control and security assessment methods. A simulation platform for smart house energy management will also be introduced.