



# IoT and Cybersecurity

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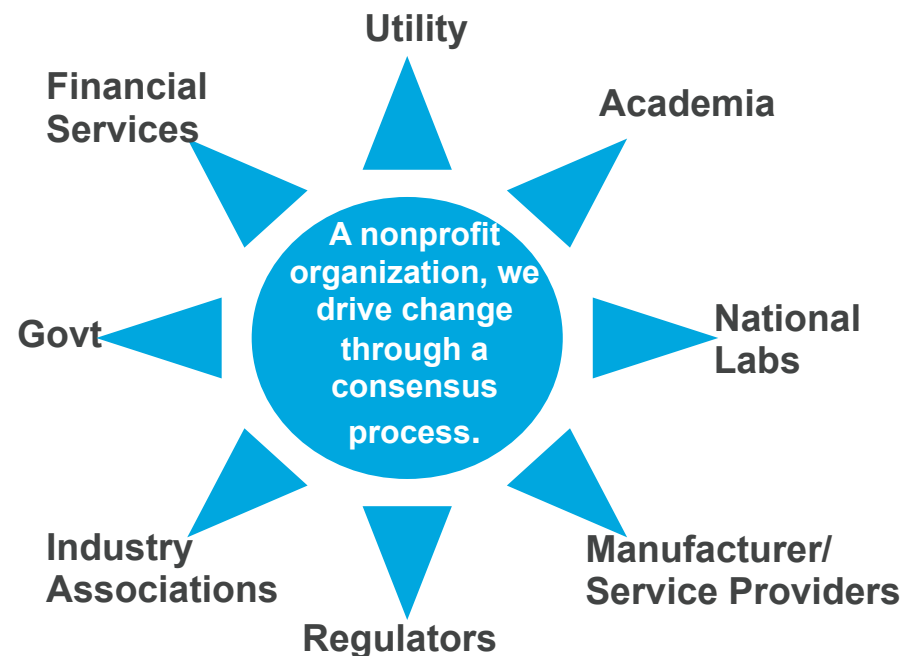
**VISION:** To improve individual quality of life by integrating energy resources securely, intelligently and efficiently

## **MISSION:**

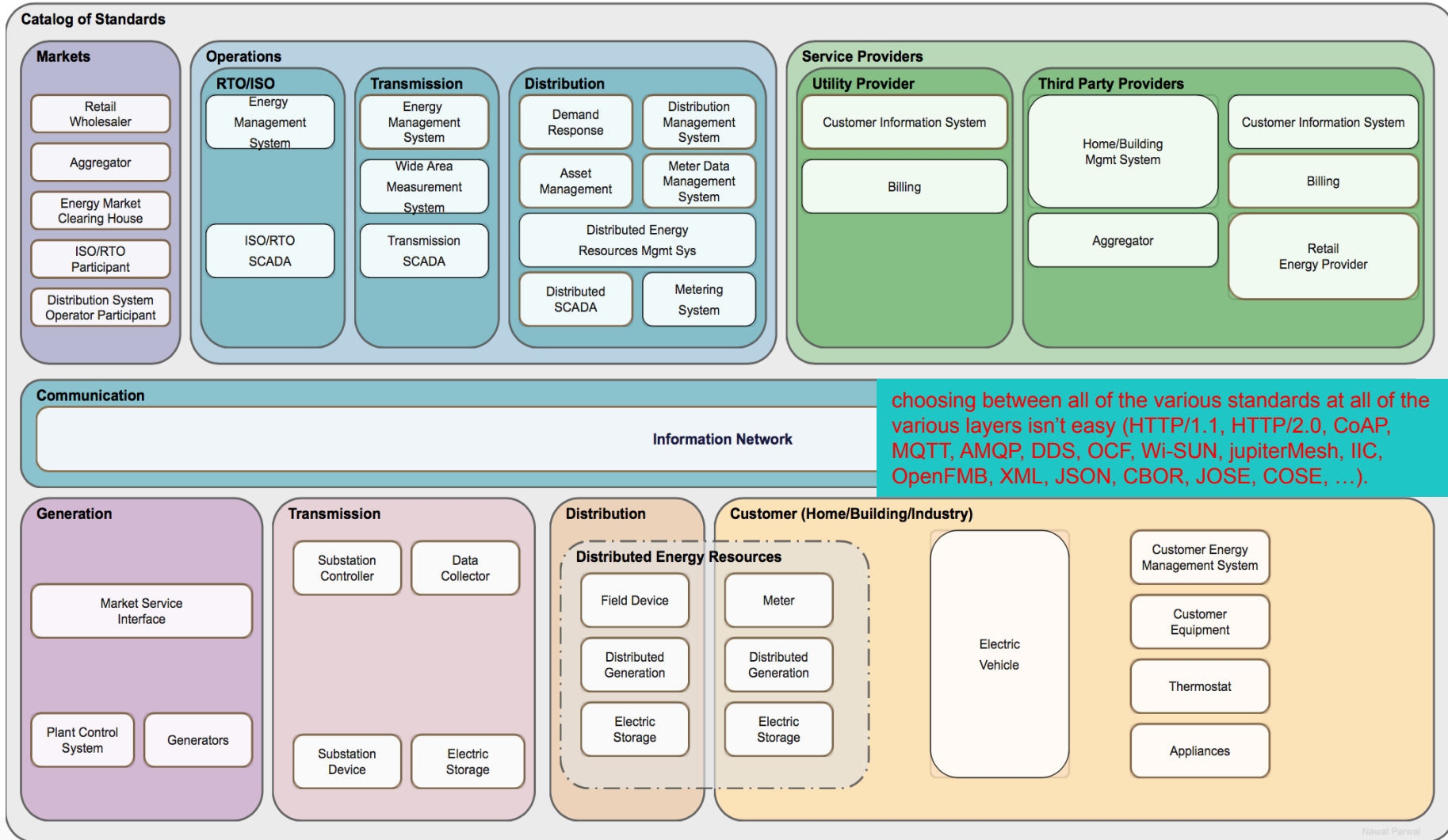
To accelerate grid modernization and the energy Internet of Things through education and the promotion of interoperability and standards to empower customers and enable a secure sustainable energy future.

## **2017 Focus Areas:**

- **Distributed Energy Resources** –
- **Energy IoT** - OpenFMB focus on Microgrids as well as frameworks for home/bldg automation
- **Cybersecurity** - Guide for utilities implementing programs
- **Standards & Interoperability** – Existing working groups plus GMLC projects. Navigation tool for standards.
- **Orange Button** - Lowering the cost of solar



# Lots of Standards, few focused on cross functional domain devices



# Examples of Good Things Happening



- IEC 61650-8-2 is the IOT version of IEC 61850 communications protocol. (will probably become a standard by the end of 2017)
- IEEE 2030.5 (SEP2) is an IOT standard based on RESTful web protocols.
- IEEE P1451-99 Harmonization of Internet of Things (IoT) Devices and Systems
- DOE funded project – Intel (gateway, security on chip) and RTI project
- GMLC programs on Interoperability addressing Cyber
- SGIP, OpenFMB and cyber security working group

# Further work Needed

