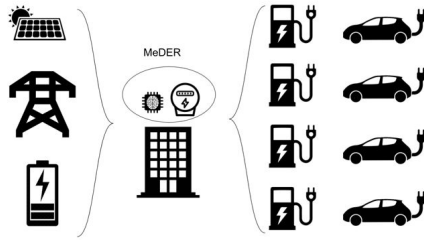




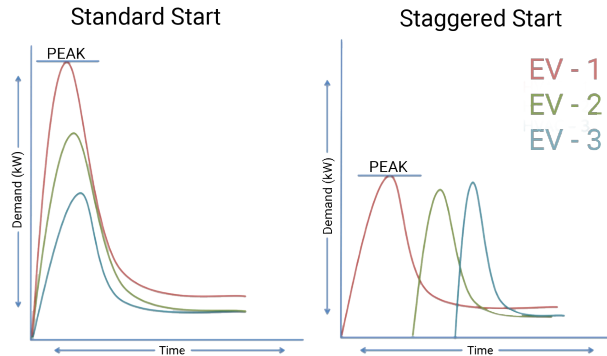
MeDER

Mana-Enabled Distributed Energy Resources



- Realtime facility energy monitoring
- Managing on-site solar energy flow to maximize on-site (non-export use) for EV Charging
- Energy Management
- Billing management and revenue model
- Reduce Grid infrastructure costs and transformer upgrades

MeDER is coupled data logger/site controller proposed to address the gap between EV charging, on-site Solar PV and facility load ensuring that EV charging is done in a way that prioritizes solar energy, eliminates peak demand contribution and reduces stress on a facility's existing electric infrastructure.



An industrial-grade embedded computer with Ethernet, RS485, etc. interfaces to connect directly to IOT devices (EVSE) over Modbus as well as enabling HTTP for server-side communication. Connected to on-site energy meters and solar inverters to the cloud-based server in order to collect consumption and solar production energy data while enabling direct connection to EVSE.