

Open Automated Demand Response Progress Update

International OpenADR Symposium

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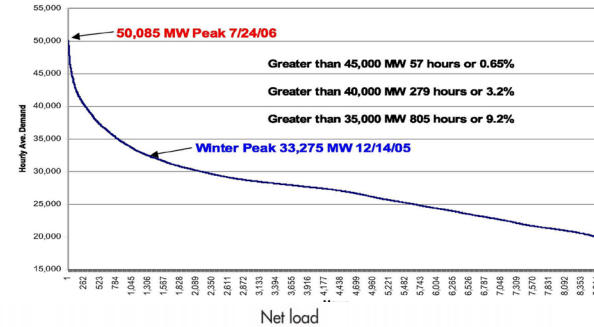
Challenges with the Grid



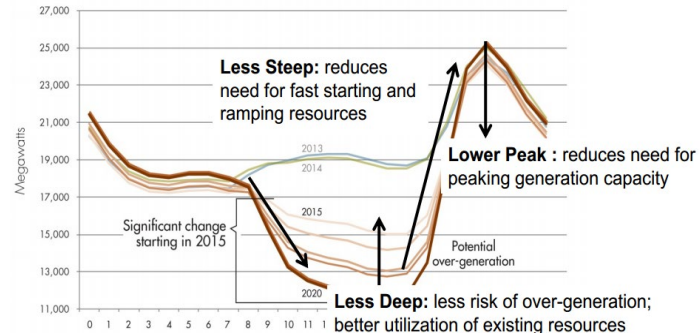
California Independent System Operator Corporation

CAISO Load Duration Curve

Sept '05 to Sept '06

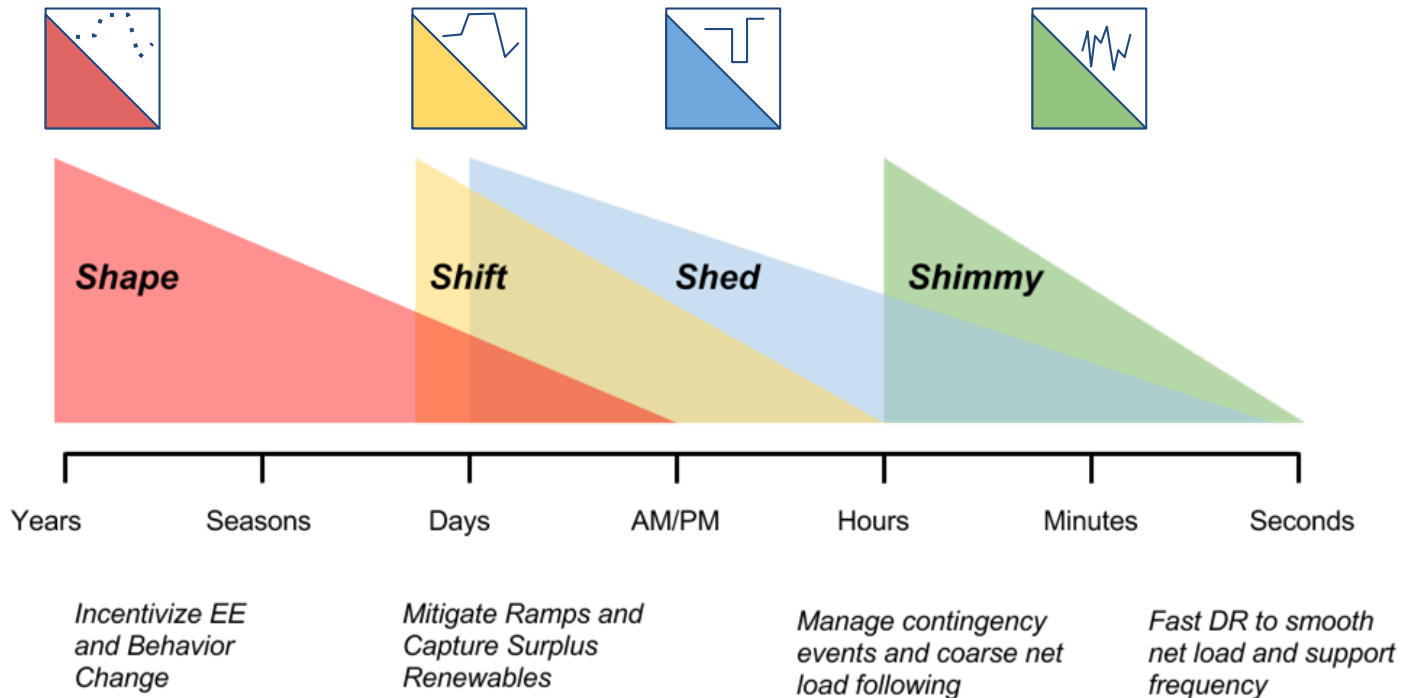


- Manage Peak Capacity During Hot Summer Days
- Improve Affordability of Electricity
- Improve Grid Reliability
- Enable More Renewables on Grid



Note, this curve is being updated, it is used here to represent how we should look at what we are trying to accomplish

DR Services Spans Time Scales



End Uses and Enabling Technologies



IEC OpenADR Standard



OpenADR 2.0b Profile Specification now an international standard from the International Electrotechnical Commission - **IEC 62746-10-1:2018**

- ◆ **Systems interface between customer energy management system and the power management system - Part 10-1: Open automated demand response**
- ◆ **<https://webstore.iec.ch/publication/26267>**

Future Directions

- Linking energy efficiency and demand response can be synergistic
- Demand Side Management is moving from static energy efficiency to dynamic energy management
- Integrated demand side management will help state achieve low carbon grid

