



The Role of Demand Response in Electric Sector Decarbonisation

**EPRI-IEA Challenges in Electricity Sector Decarbonisation Expert
Workshop:**

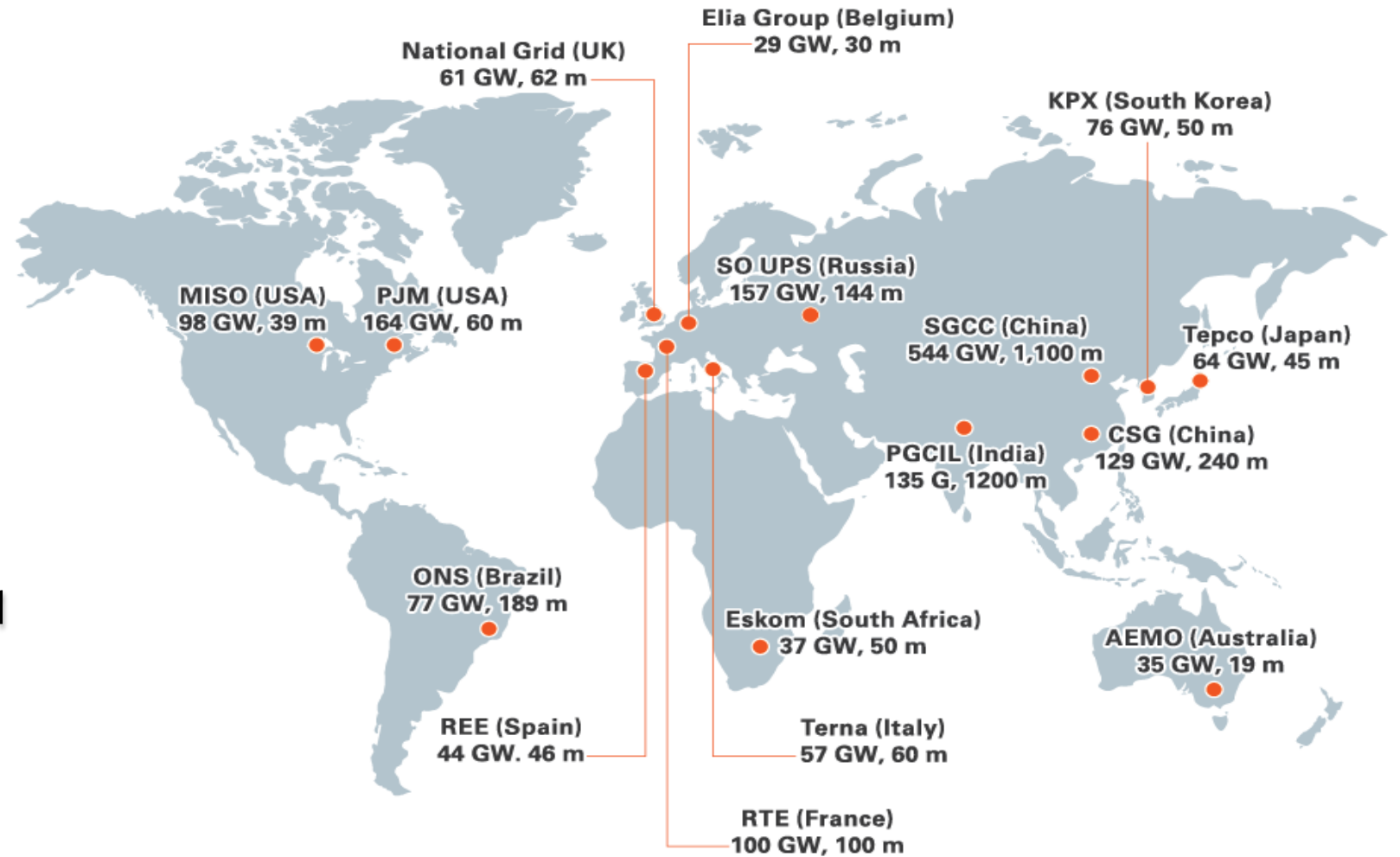
Integrating New Technologies While Maintaining Resource Adequacy

28 September 2015

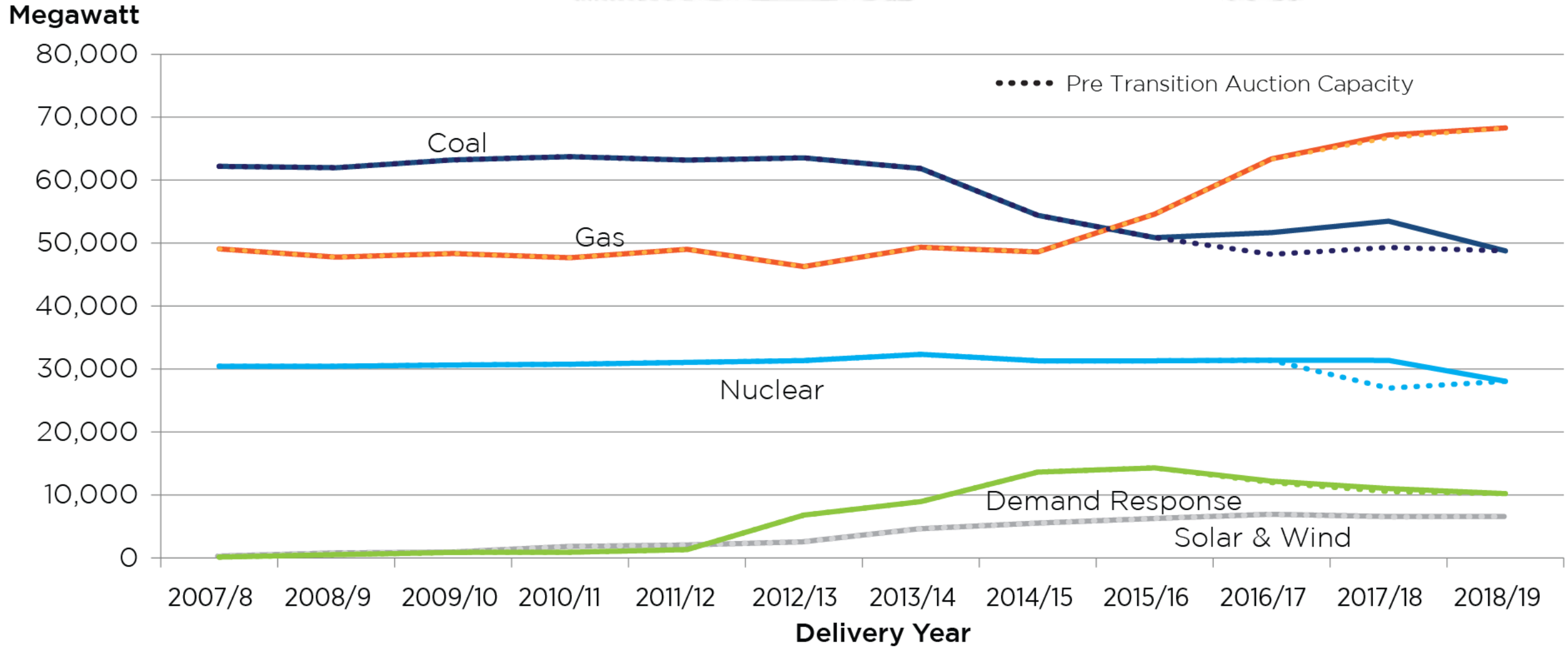
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Lead Market Strategist

PJM KEY STATISTICS

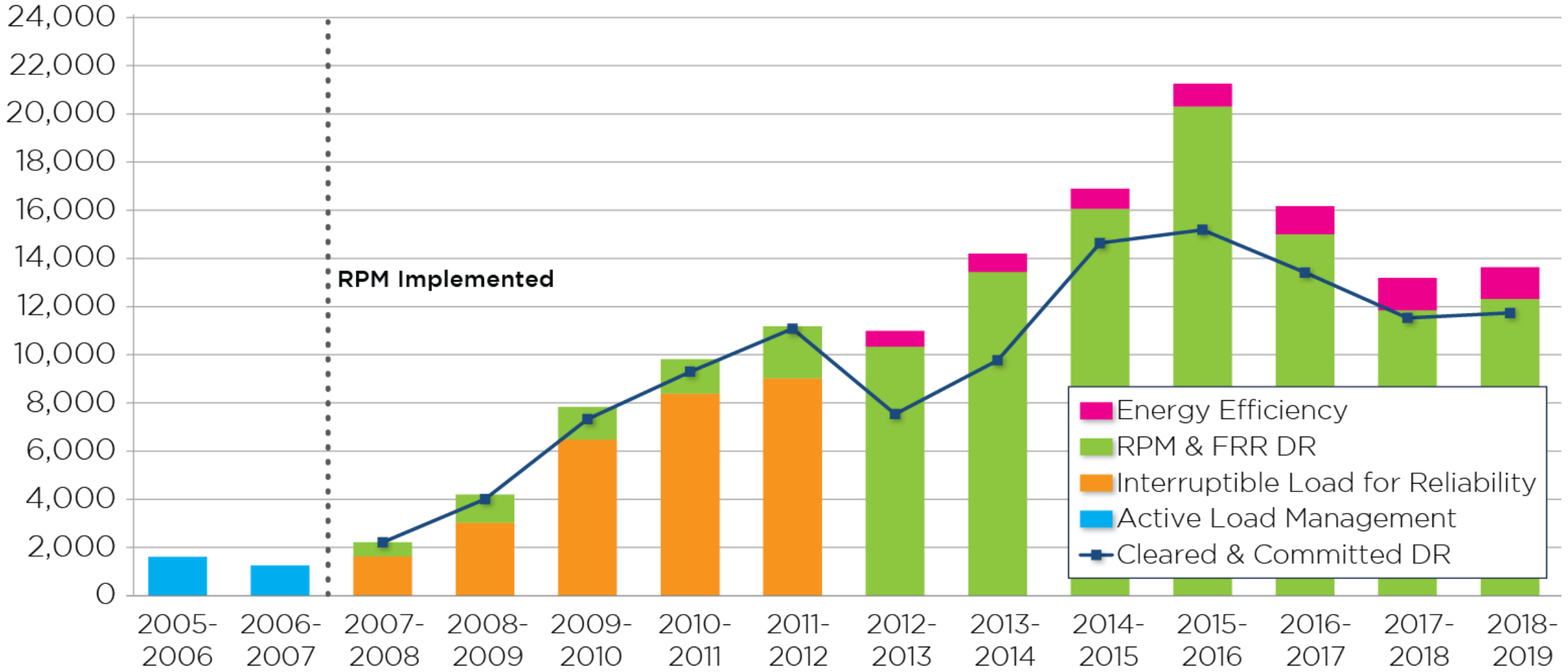
Member companies: 925+
 People Served: 61 Million
 Peak load in megawatts: 165,492
 MWs of generating capacity: 183,604
 Miles of transmission lines: 62,556
 2014 GWh of annual energy: 797,461
 Generation sources: 1,376
 Square miles of territory: 243,417
 States served: 13 + DC



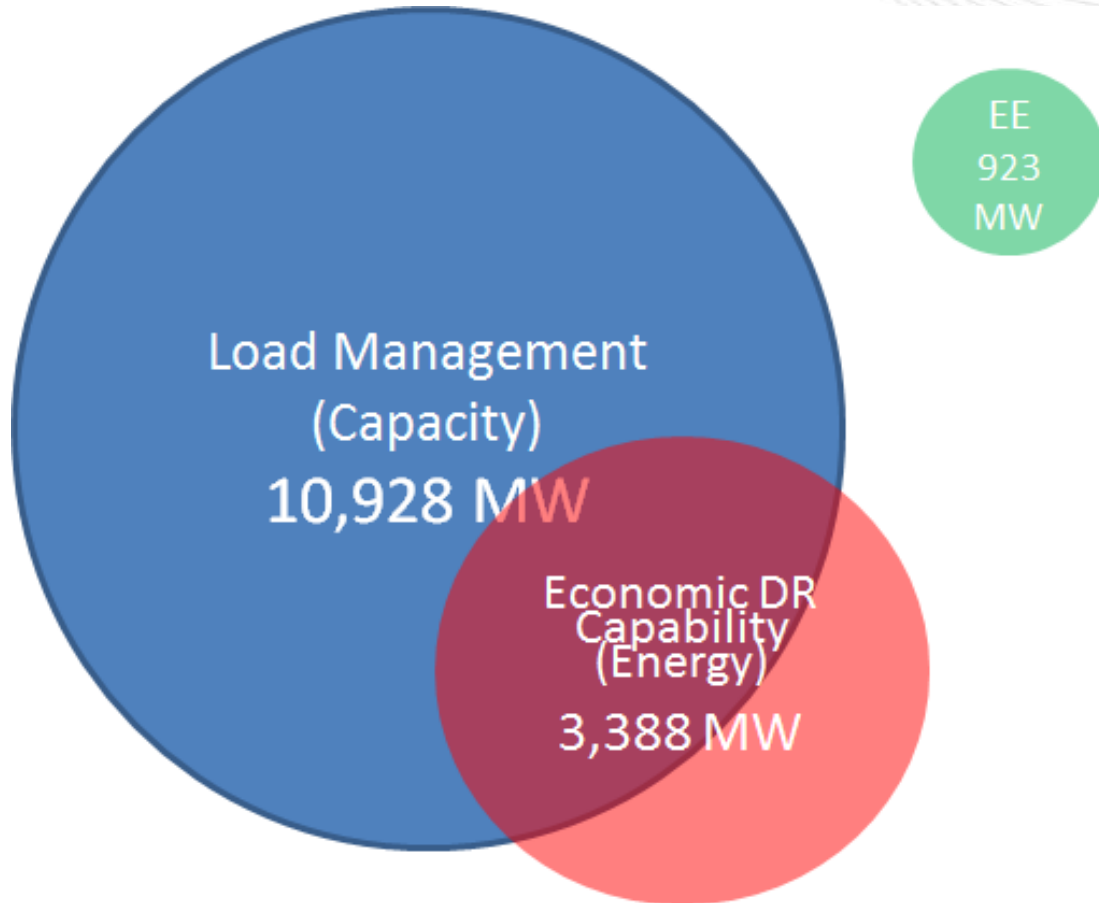
Information for each member refers to peak load and customers served | Source: GO15



Megawatts



Current Demand Response Participation



- DR Capacity – 2018/2019 Delivery Year = **10,244 MW**
- Typical Economic Energy DR in market ~ **50 MW**
- DR Synchronous Reserve capability ~ 513 MW, typical amount in market ~ **65 MW (~ 4% of SR requirement)**
- DR Regulation capability ~ 13 MW, typical amount in market ~ **4 MW**

