

Demand Response Participation in Wholesale Markets

Current Gaps and New Opportunities



ESIG

ENERGY SYSTEMS
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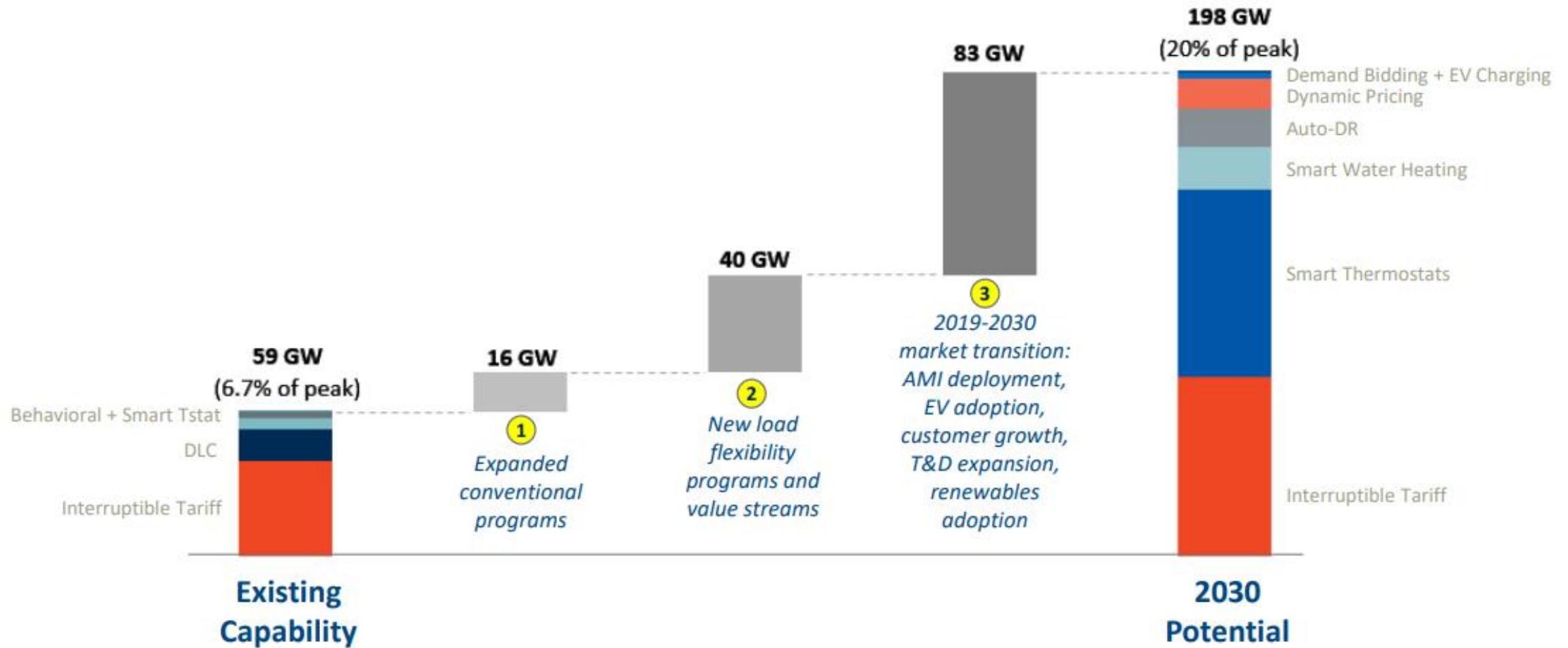
ESIG Fall Technical Workshop

Derek Stenclik

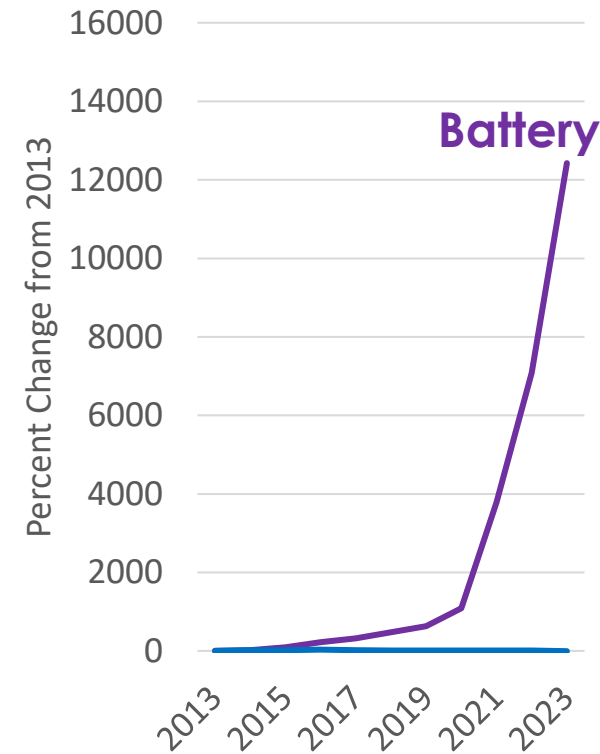
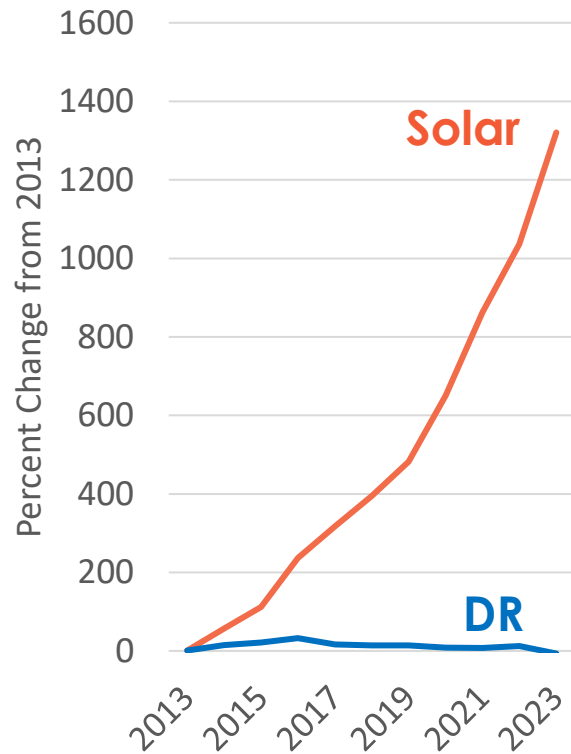
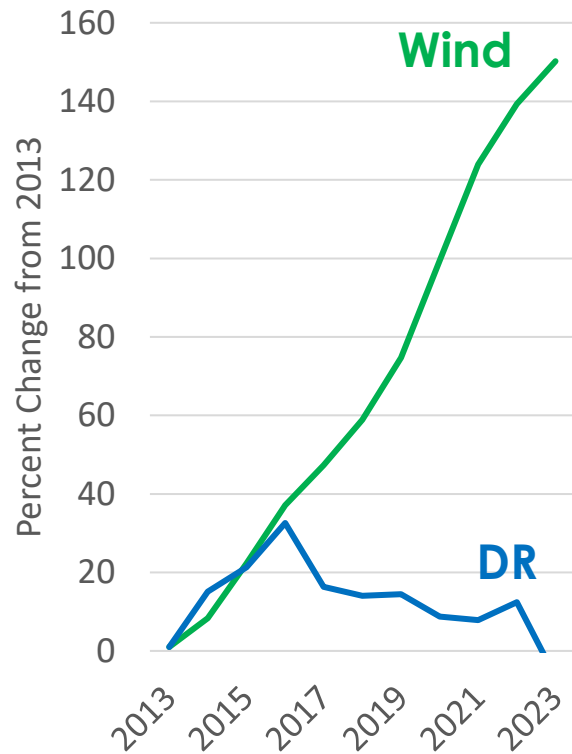
Telos Energy

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Many studies have identified load flexibility as a cost effective and reliable resource...



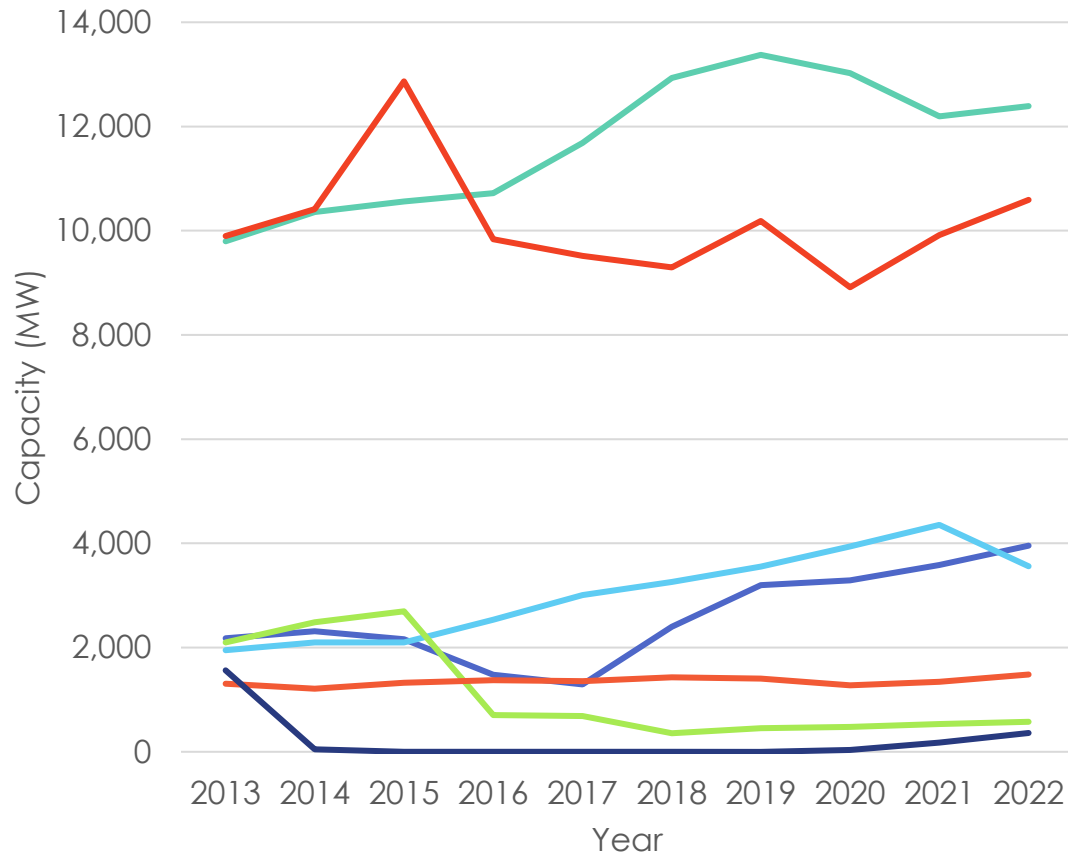
... but the energy transition hasn't yet arrived for demand response and load flexibility



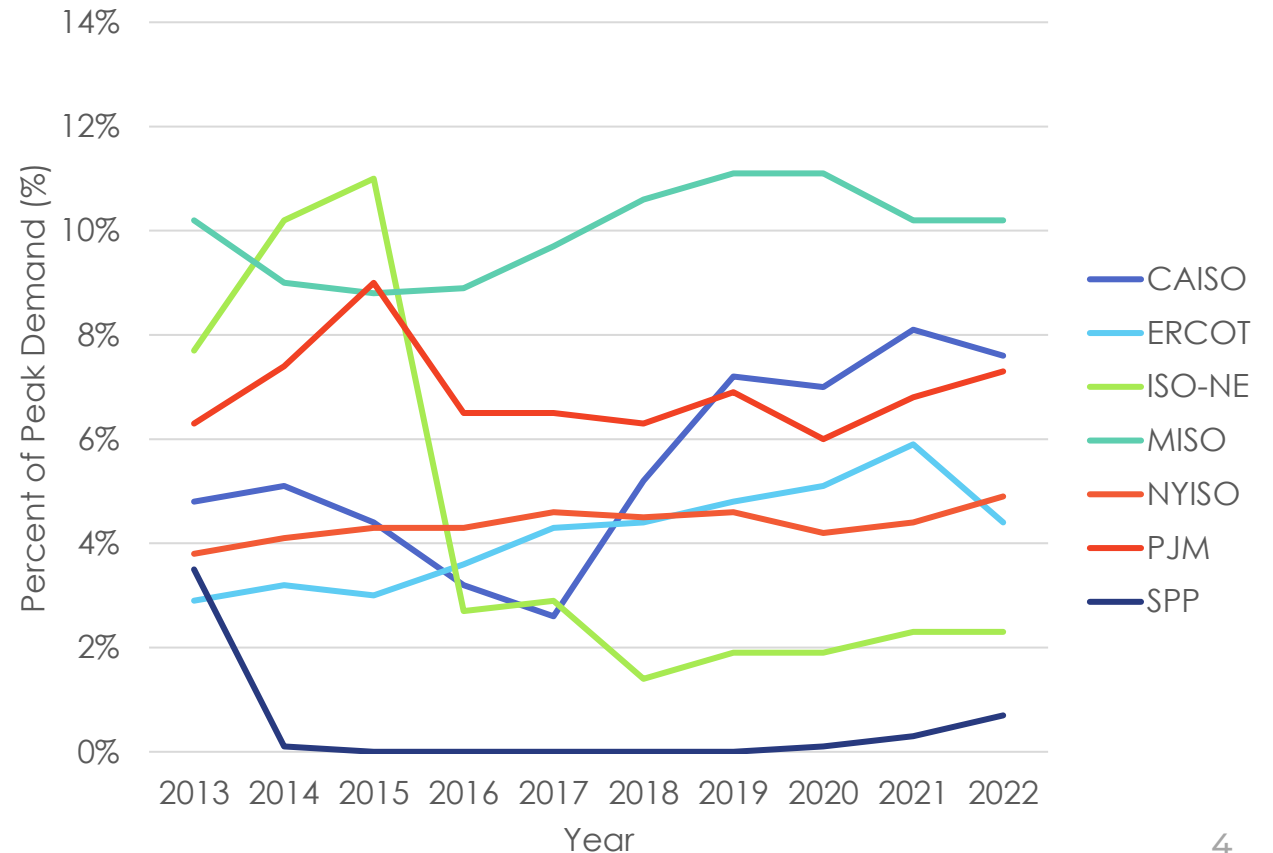
Wholesale market participation for demand response is flat or declining in most US markets



Wholesale DR by ISO/RTO (MW)



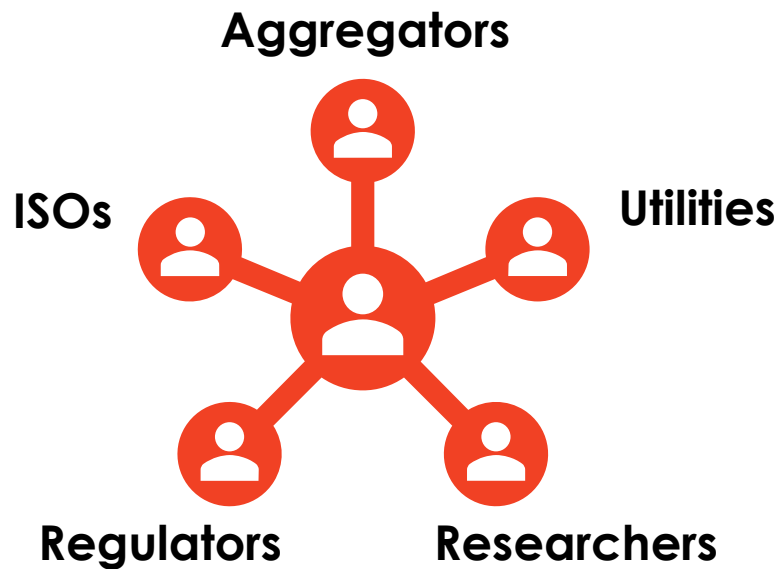
Wholesale DR by ISO/RTO (% of Peak)



Source: FERC Annual Assessment of Demand Response and Advanced Metering

Why is this and what can we do about it?

Interviews with key stakeholders and industry experts

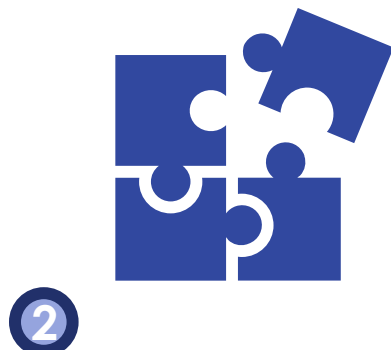


1. Is there a gap between current participation levels and potential participation levels in wholesale market demand response programs? If so, why?
2. What are the barriers, and the relative importance of each, limiting demand response participation?
3. What options are available to overcome these barriers?

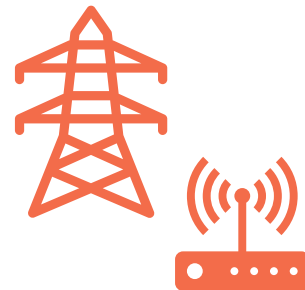
Top Five Gaps for Demand Response Participation in Wholesale Markets



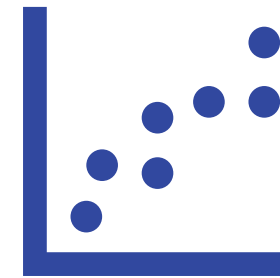
① **Lack of Experience & Knowledge**



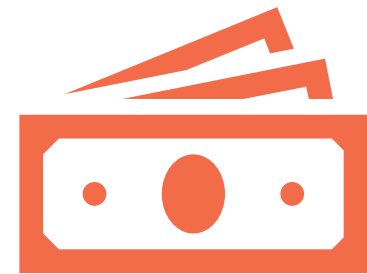
② **Market Fragmentation & Inconsistent Rules**



③ **Difficult Interconnection & Metering Rules**



④ **Lack of detailed performance data during grid events**



⑤ **Weak financial incentives**

New ESIG Report Coming Soon!