

Demand Response Potential to Provide Renewable Integration Services

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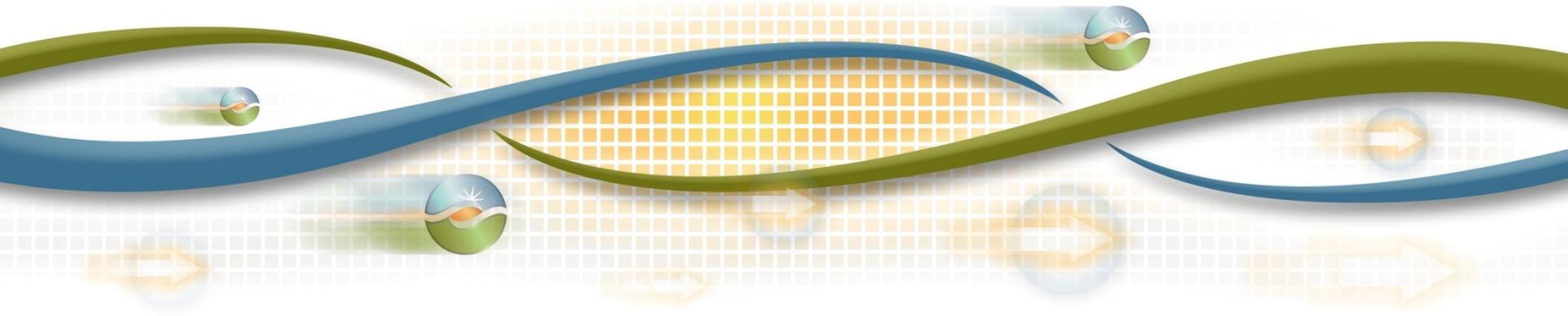
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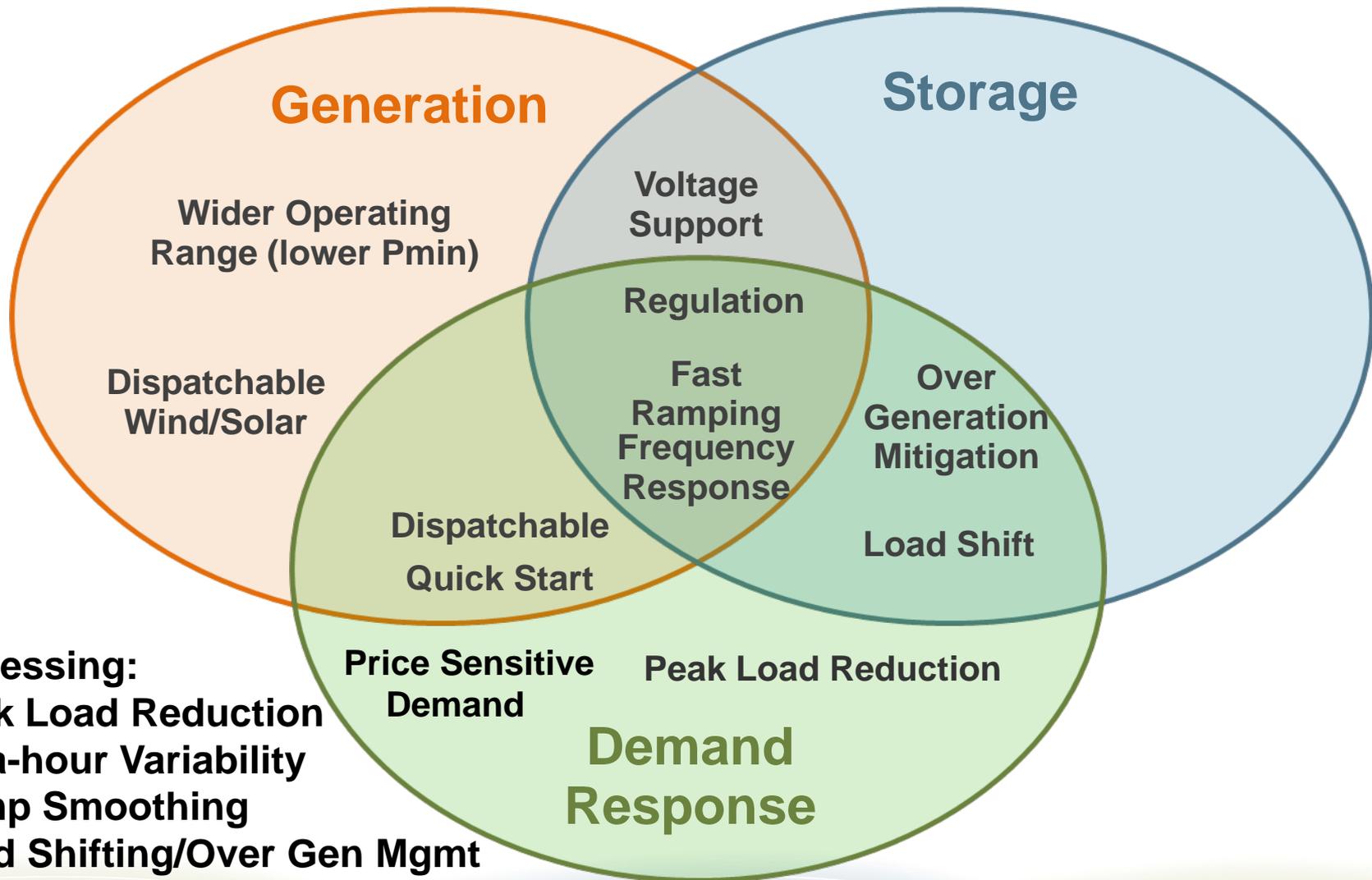
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Configuring DR to Meet the Challenges



Addressing:

- Peak Load Reduction
- Intra-hour Variability
- Ramp Smoothing
- Load Shifting/Over Gen Mgmt

Removing Barriers to Demand Response

- Proxy Demand Resource Product (PDR)
- Ancillary services modifications approved by FERC in 2010
 - Resource type restrictions removed
 - Continuous energy requirement reduced
- Non Generator Resource Model being tested now
 - Limited Energy Storage Resource
 - Dispatchable Demand Response
 - Regulation Energy Management Option

Removing Barriers to Demand Response

- Reliability Demand Response Product (RDRP)
 - An extension of Proxy Demand Resource that integrates with utility emergency demand response products
- Regulation Pilot with PG&E
 - Test response capability of several end-use load types
 - Understand the resource operational characteristics
 - Understand what modifications are needed to ISO systems and tools
 - Inform Policy and Market Product Development activities
 - Support development and validation of a load reduction methodologies
- Real Time Pricing for load