

CEC IEPR Demand Response Workshop

California Energy Commission

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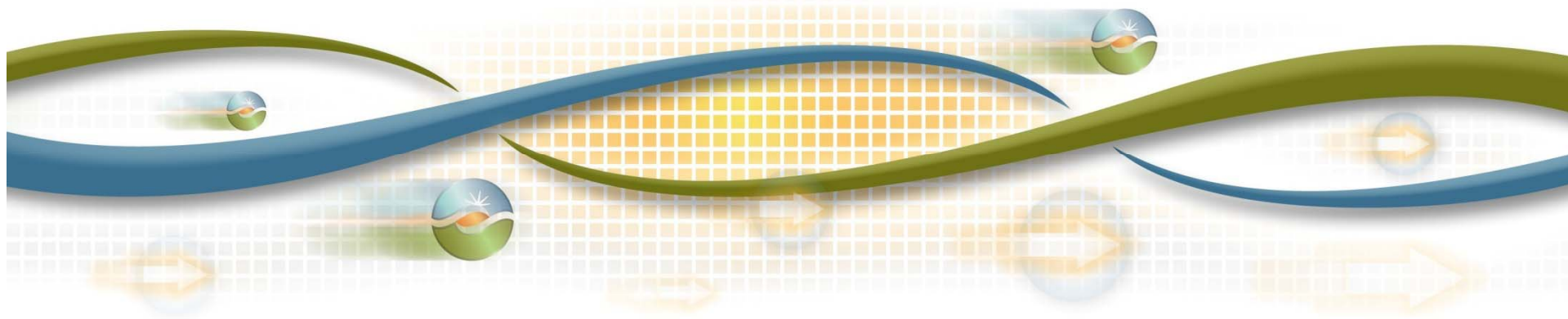
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The ISO published a roadmap last week focused on increasing DR and EE to reduce or offset additional generation and transmission infrastructure.

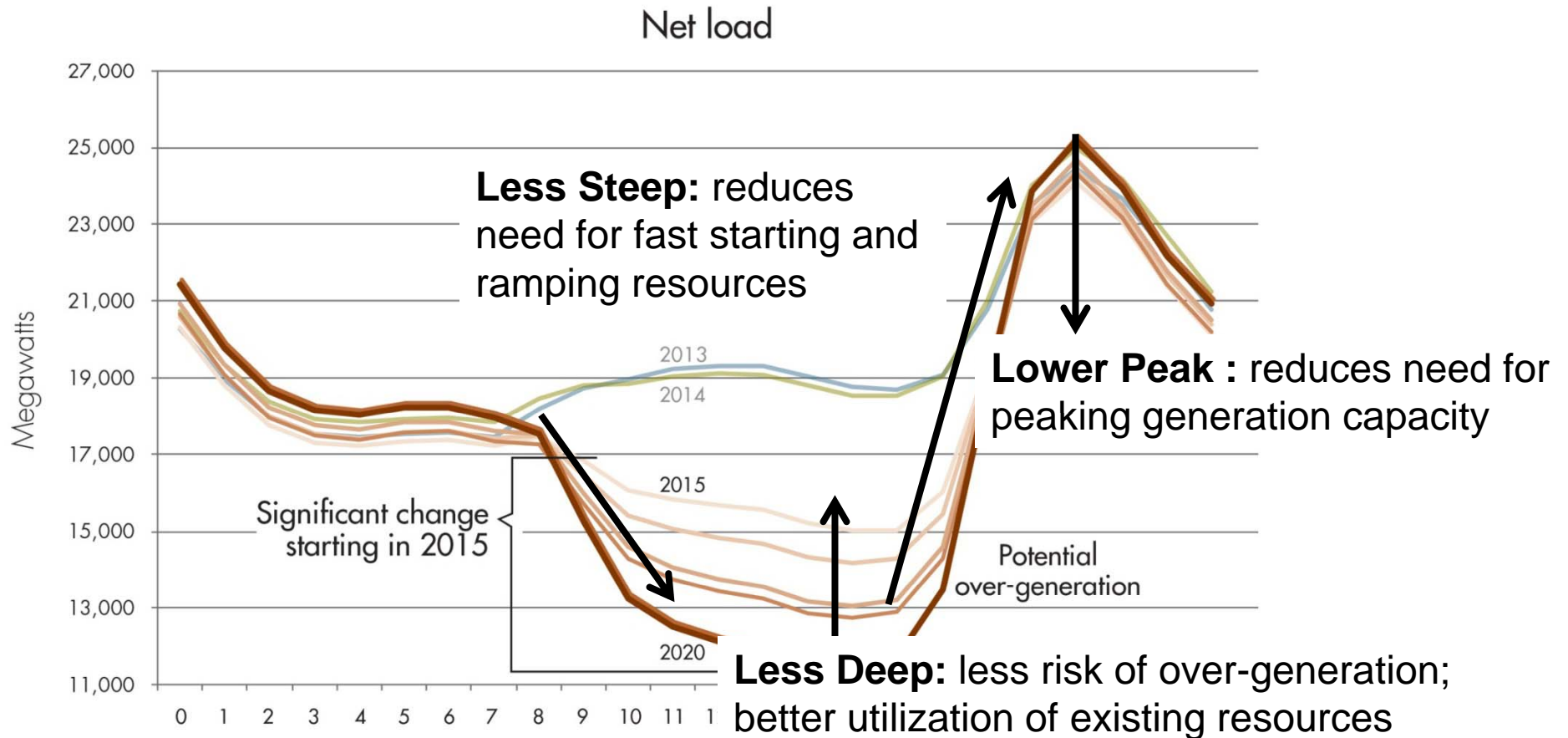
Document link:

- <http://www.caiso.com/Documents/Draft-ISODemandResponseandEnergyEfficiencyRoadmap.pdf>


Navigate:

- www.caiso.com
- Stay informed / Stakeholder processes / Demand Response

We must design programs and tariffs that modify the load shape and provide resources at the right time, location, and magnitude.




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



The roadmap organizes activities on four paths and includes recommendations for assignments and timing.

- Load shaping
- Resource sufficiency
- Operations
- Monitoring



Stakeholders need to understand each other and frequently assess and monitor. We need to recognize that needs have changed; capabilities have also changed.

- What is flexible capacity? page 12
- The importance of monitoring: page 19
- ISO market models and market products: page 18

The ISO, CPUC, and CEC must collaborate and align on a road forward. We must implement, measure and adjust.

Goal	Activities	CPUC	ISO	CEC
Ensure consistent assumptions in ISO, CEC, and CPUC planning and procurement processes	Identify process interaction and dependencies	X	X	X
	Identify and implement adjustments to processes	X	X	X
Modify load shape to reduce resource procurement requirements, over-generation, and n	Create targeted EE programs and incentives to locations and time periods	X		
	Investigate and define retail rate options	X		
	Develop approach to align retail rates with grid conditions	X	X	
		X		O
		X		
		X	O	O
Clarify ISO needs for DR most effective in pl operation		O		O
			X	
	inning local areas		X	
			X	
			X	
	R		X	
Ensure resources are procured and developing to meet capability, timing, and location needs	Develop more granular forecasts for EE			X
	Develop criteria for classification of demand-side programs	X		
	Include load-modifying programs in demand forecast			X
	Revise RA counting for DR programs classified as resources	X		
	Develop policy guidance for DR and EE programs targeted to meet needs	X		
	Develop approach to monitor progress of DR and EE program development and implementation	O		O
	Develop multi-year forward RA procurement mechanism	X		
	Develop market-based replacement for ISO backstop capacity (CPM replacement)		X	
Increase DR program and pilot participation in ISO market developing operations experience and providing feedback for policy refinement	Evaluate and measure DR and EE program effectiveness	X		X
	Complete CPUC Rule 24	X		
	Implement ISO RDRR		X	
	Bid DR resources into ISO markets	X	X	
	Expand ISO metering and telemetry options		X	
	Refine and automate wholesale DR registration process		X	
	Execute PG&E intermittent resource pilot in ISO market	O	X	
	Modify and implement ISO NGR – DDR			
	Define and execute pilot programs and assess resource flexibility capabilities			

Continue to ask: How does what we are doing advance demand response and energy efficiency to offset generation and transmission needs?

Call to action: page 22

Thank you

Roadmap comments appreciated through July 12. Please submit to RDRP@caiso.com. Contact Tom Cuccia at tcuccia@caiso.com with questions.

