

**DOCKETED**

<b>Docket Number:</b>	21-IEPR-06
<b>Project Title:</b>	Building Decarbonization and Energy Efficiency
<b>TN #:</b>	239441
<b>Document Title:</b>	Presentation - Energy Efficiency is Critical for a Decarbonized Future
<b>Description:</b>	S1.2 Ken Rider, CEC_ADA.
<b>Filer:</b>	Raquel Kravitz
<b>Organization:</b>	California Energy Commission
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<b>Submission Date:</b>	8/23/2021 5:00:41 PM
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# California Energy Commission

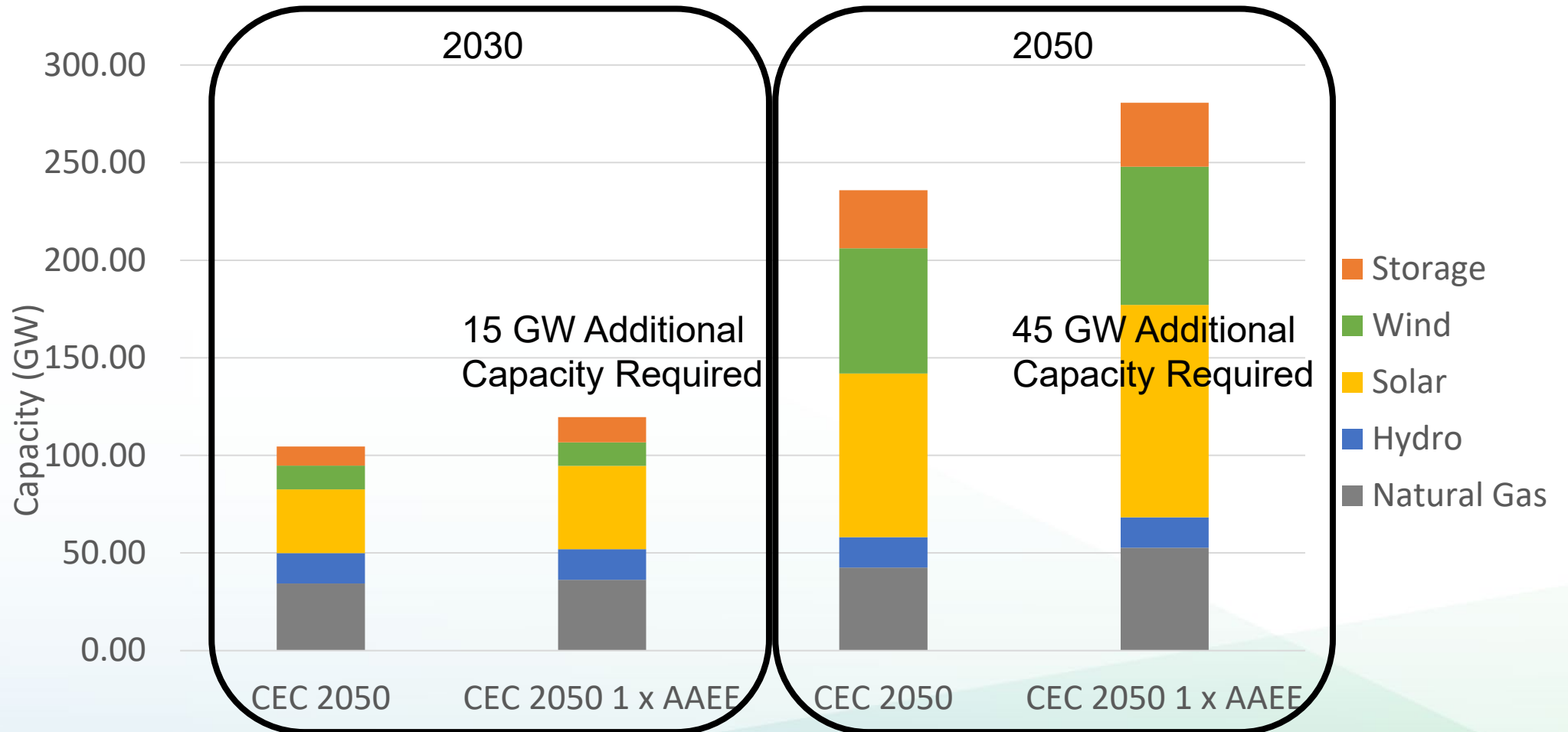
Title: The Role of Energy Efficiency in a Decarbonized Future

Presenters: Ken Rider, Chief Policy Advisor to Chair Hochschild

Date: 8/24/21



# Energy Efficiency is Critical for a Decarbonized Future

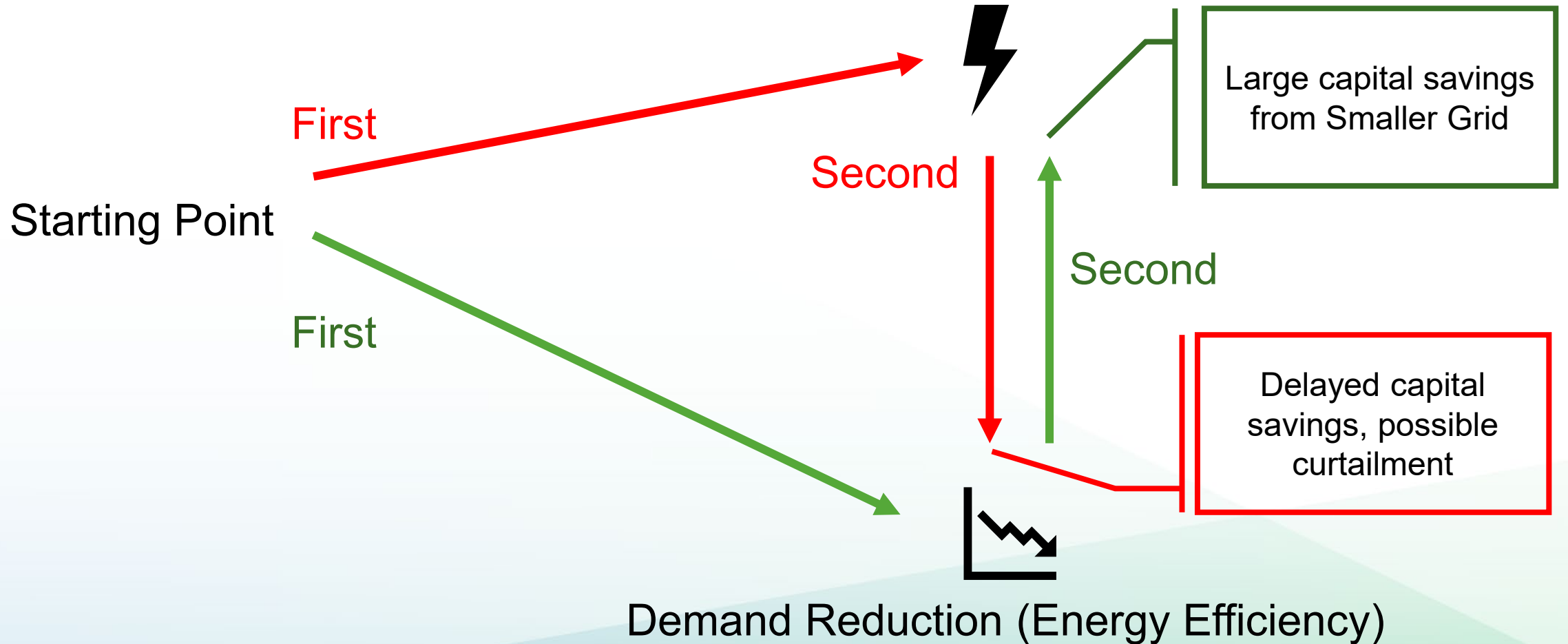


Source: E3 PATHWAYS Model



# Path Dependency of Efficiency

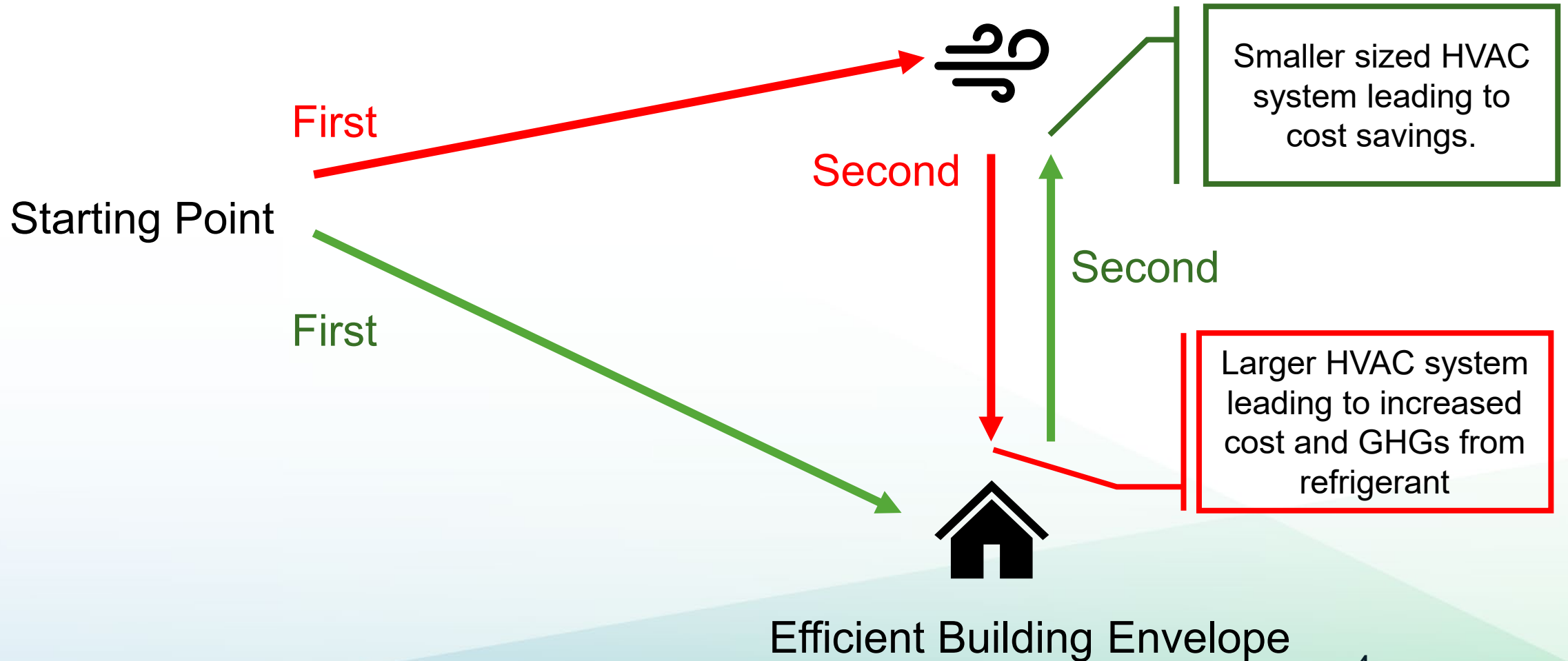
100 Percent Clean Electricity





# Path Dependency of Efficiency

Decarbonized HVAC System





## Effects of electrification with the most efficient technology versus standard technology

### Consumer Savings\*

Reduce Electricity Generation Needed By

**19%**

**2.2**  
Billion

Reduction In Annual Utility Bill Costs

### Electricity Generation Needed

Standard Technologies

**47.6 TWh**  
Needed

Most Efficient Technologies

**38.6 TWh**  
Needed

\*In 2020 dollars

Note: "Standard Technologies" and "Most Efficient Technologies" represent a comparison of the "aggressive electrification" and "efficient aggressive electrification" scenarios examined by CEC staff.



**Thank You!**  
**Discussion/Questions**