

# **GridOptimal**

**Connecting Electric Grid Needs with Building Opportunities to Stabilize and Decarbonize the Grid** 



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# Today's Panel



Alexi Miller Senior Project Manager New Buildings Institute



Rachel Kuykendall Senior Programs Manager Sonoma Clean Power



Mark MacCracken VP; CALMAC Portfolio Leader Trane



Brad Jacobsen Associate Principal EHDD Architects



Ted Tiffany
Director of
Sustainability
Guttmann &
Blaevoet
Consulting
Engineers

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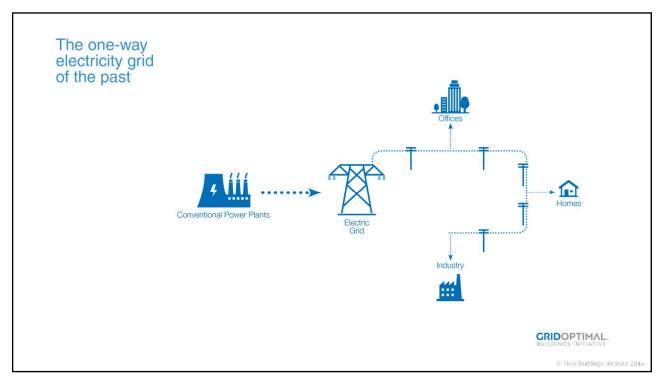
## **Learning Objectives**

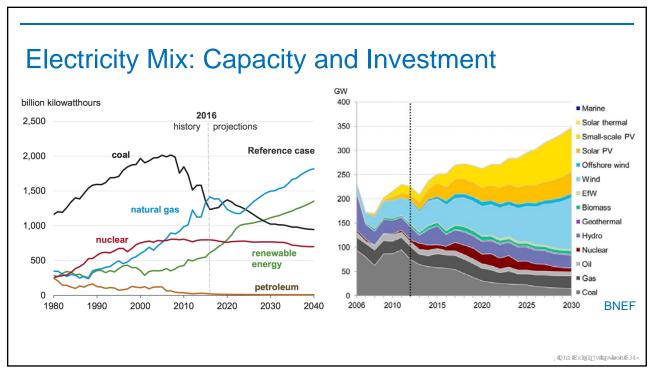
- Attendees will learn about new policy and market drivers pushing designers to consider time-of-use energy efficiency in buildings.
- Attendees will see how the first GridOptimal pilot project team collaborated across disciplines to evaluate and reduce operational grid carbon impacts associated with their building's demand profile.
- Attendees will be informed about specific design choices that impacted this pilot project's demand profile – and operational grid carbon impacts.
- Attendees will gain an appreciation for the strong and intensifying connection between decarbonization and grid harmonization.

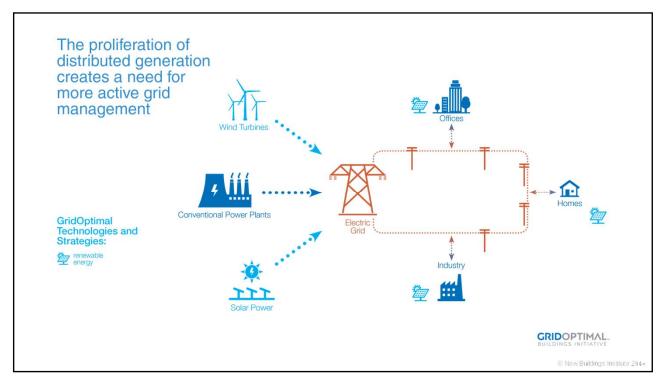
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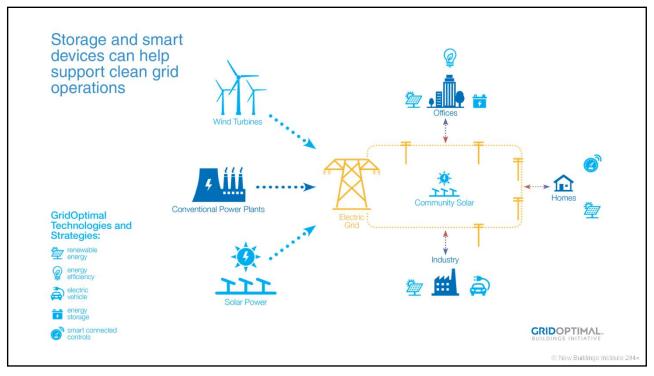
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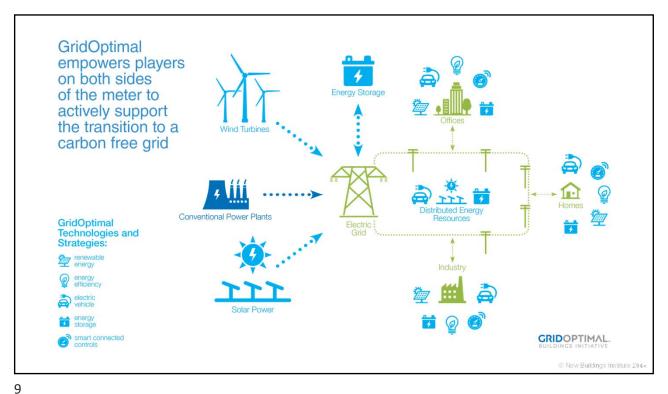


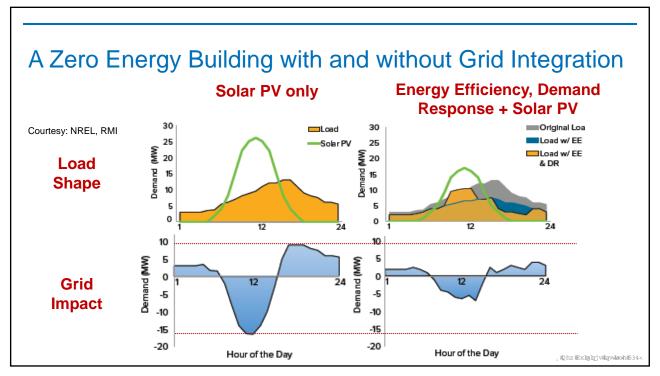


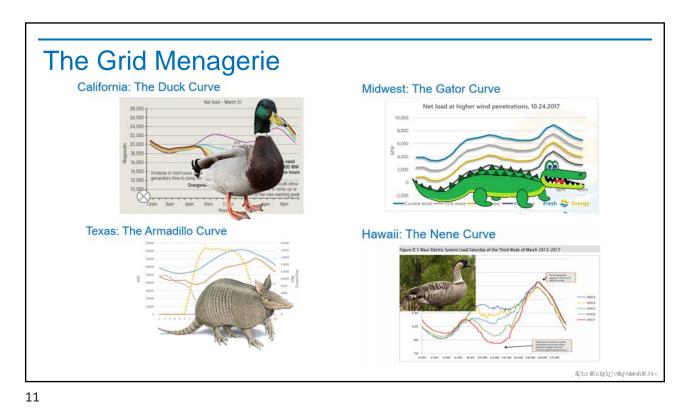












## The GridOptimal Buildings Initiative - Key Themes

- The way buildings interact with the electric grid is evolving rapidly.
- Buildings will face increasing **regulatory and economic pressure** to be able to respond to **changing utility rate and delivery structures**.
- Designers will need to **understand and incorporate strategies** that allow buildings to directly interact with the utility grid.
- Adapting to the *interactive grid* will be critical to maintaining building services and comfort and to grid dependability.
- Efforts to decarbonize the electrical grid will require better integration of distributed energy resources.

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# The GridOptimal Buildings Initiative

- Formally launched July 2018
- Phase 1 complete
  - 2/28 Webinar: "Metrics, Modeling, and Momentum"
- Phase 2:
  - Metrics, Guidance, Pilots, Codes

#### Please join us!

- Contact: alexi@newbuildings.org

#### A Joint Initiative Of:





#### **Supporting Members:**













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13

## Thank you!

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