CalFlexHub
Advancing Dynamic Energy Management

Presented by Mary Ann Piette, Lawrence Berkeley National Laboratory
What is CalFlexHub?

A new research, development, demonstration, and deployment program led by Berkeley Lab.

Its goal is to advance the capability of buildings to provide a flexible energy load for the State of California.
CalFlexHub seeks to:

- Identify, evaluate, develop, and demonstrate pre-commercial, load-flexible technologies
- Standardize signals used to communicate dynamic price and GHG information to these technologies to support CEC Load Management Standards
The Grid Is Changing

California seeks to decarbonize electricity production by 2045.

As we add renewable energy to the grid, we are unable to consume it all.
The “Duck” Curve

The more renewable energy we add, the worse this problem becomes.
The Solution:
Prices To Devices

A future where building loads receive continuous price information and adjust their electricity consumption automatically for maximum affordability, reduced carbon content, or a mixture of both.
Grid-Interactive Efficient Buildings Support an Electric Grid with More Renewables
Equity

CalFlexHub seeks to benefit all Californians, including those from disadvantaged communities.

Target technologies will be practical, affordable, and reliable.

Signals will be broadcast over the internet and via FM radio waves—accessible to virtually every household and business in California.
CalFlexHub will launch in mid-2021.

To sign up for our newsletter and learn more, visit www.CalFlexHub.org.

Or contact Mary Ann Piette directly, at mapiette@lbl.gov and 510-486-6286.