



# GRID FIRING 101

## What is grid firing?

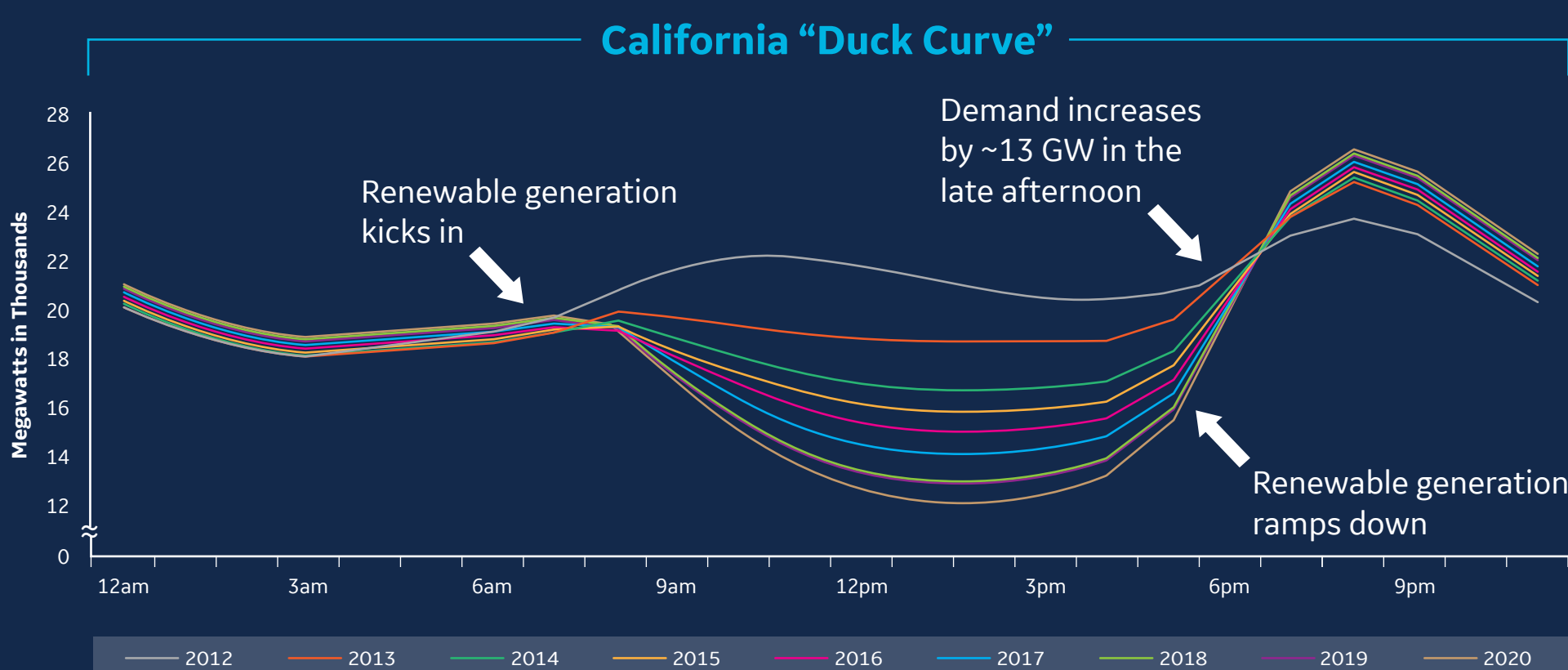
**Grid firing** (also known as capacity firing or renewable firing) is the addition of another energy resource to a renewable power plant to balance the intermittent variation of renewable resources.



## Why do we need grid firing?



Renewables are here to stay, and while going green is important worldwide, it can introduce **intermittency issues**. Let's take a look at a typical net load curve that shows power demand in California, a place with many renewable energy generation sources.



As the day starts, energy needs begin to ramp up...



...peaking in the late afternoon.

But with renewable energy's **intermittent nature**, we see a challenge for grid operators.



The sun provides energy when it's directly overhead— but not if it's cloudy...and none after it sets.



Similarly, the wind isn't always blowing hard enough for turbines to produce their rated capacity.

This creates a gap between

**energy supply** | ... | **and demand.**

But there's a solution...

**and GE can help.**

