

# The Power Gap

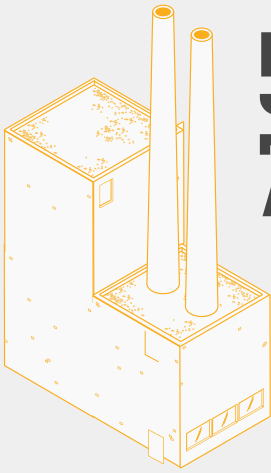
*Third in a series*

Increases in data centers, electrification, new manufacturing and other sectors of the economy are expected to drive up U.S. peak demand for electricity by more than 38 gigawatts over the next four years. While meeting that demand will likely require a combination of new power plants, grid upgrades, energy storage and demand management, here's a look at how much generation would be needed to fill the gap.

## Firm Power

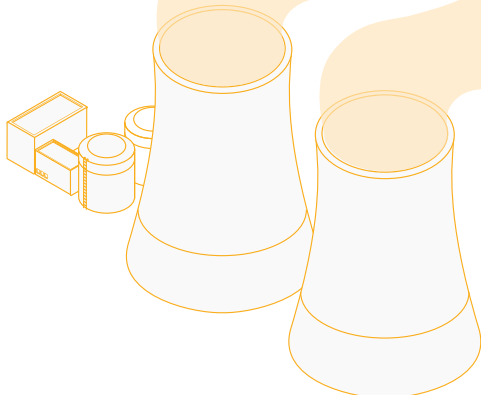
### Fossil Fuel Plants

**50** average-sized coal plants  
**75** average-sized gas plants



### Nuclear

**38** average-sized nuclear plants

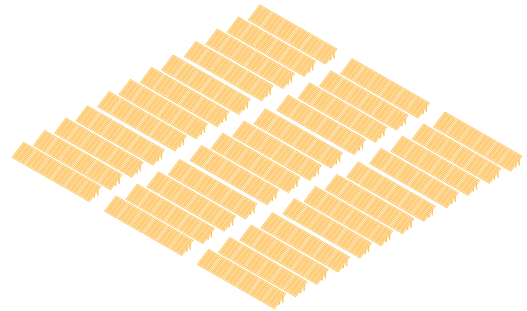


## Intermittent Power

### Solar

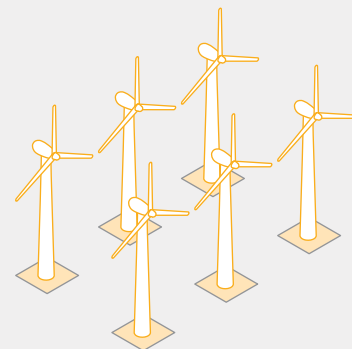
**127,000,000** solar panels\*

At ~6 acres per megawatt, this would require 228,000 acres (or 356 square miles) of land.



### Wind

**15,000** modern wind turbines\*



\* Low capacity factor for solar (15-30%) and wind (30-40%) means facilities would need to be significantly overbuilt and incorporate large amounts of storage to preserve reliability.