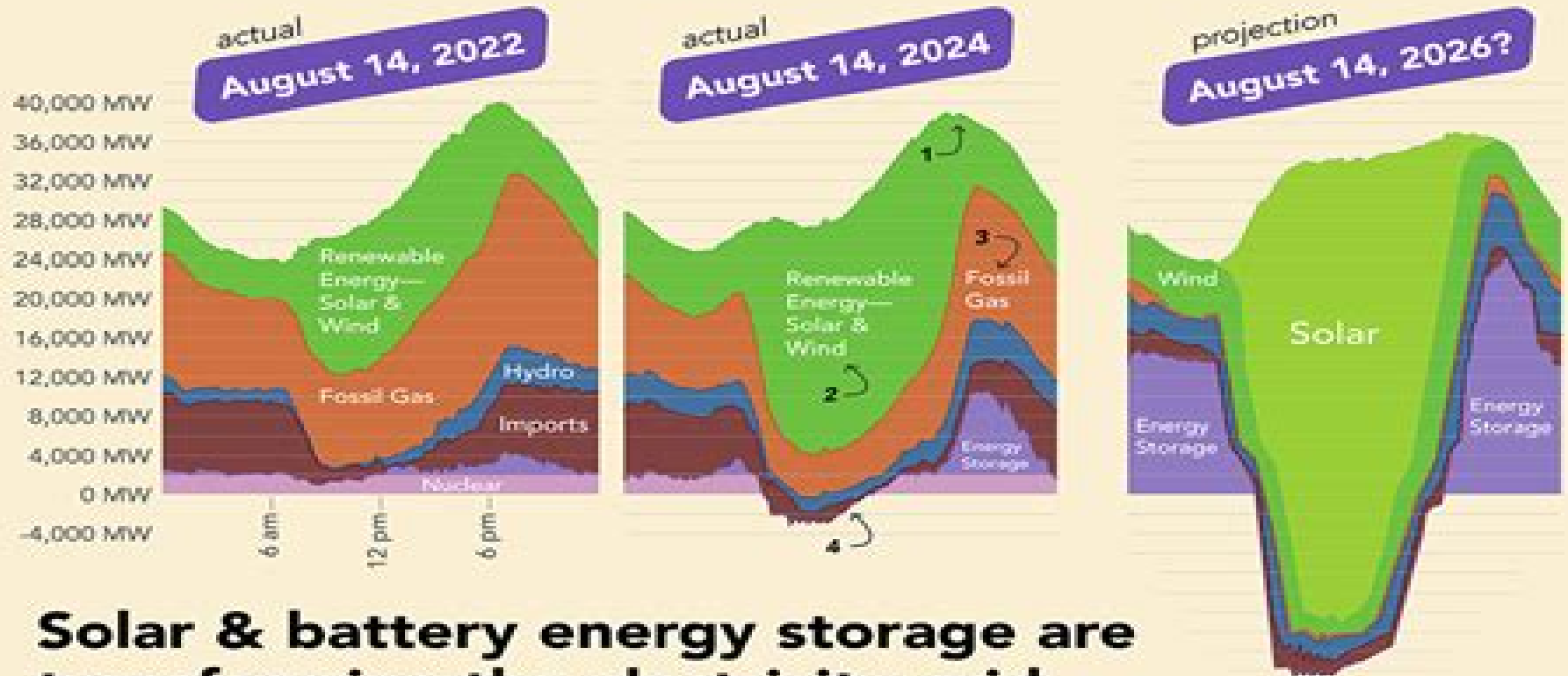


The **FUTURE** of **ELECTRICITY**



Solar & battery energy storage are transforming the electricity grid.

On the left are two actual charts*—taken just two years apart—from the California Independent System Operator (CAISO), the nonprofit that oversees California's bulk electric power system. Comparing them, we can see four important trends (see the numbered arrows in the middle chart):

1. Peak demand is getting smaller from demand management.
 2. Renewable energy supply has increased significantly.
 3. Gas generators are less important, especially during daytime hours.
 4. Electricity is being stored by batteries for use when the sun has set.
- *Negative megawatts (MW) start to appear quite clearly in 2024 because battery storage is cheaper, cleaner, and safer than gas.

What can we expect to see in another two years?

The third chart represents an extrapolation of the four trends. A large build-out of battery storage becomes sufficient to eliminate fossil gas power plants almost entirely. Backup requirements could even be met with generators burning green hydrogen made using abundant midday solar energy and offshore wind. Demand management and distributed energy help further ease peak demand and lessen reliance on imports. While it may take more than two years to get there, a supply curve like this is absolutely the future of electricity.

Online Cleaner Cheaper Smaller Transforming Electricity

Michael Hoelscher



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