

FACT SHEET

Resource Adequacy: The need for sufficient energy supplies

Resource adequacy ensures there is enough capacity and reserves for the grid operator to maintain a balanced supply and demand across the electric system.

The California Public Utilities Commission (CPUC) requires suppliers and load-serving entities—investor owned-utilities, community choice aggregators, and energy service providers—to have enough contracted capacity to meet system, local, and flexible resource adequacy requirements.

- System resource adequacy requirements stipulate that load-serving entities contract enough capacity to meet the 1-in-2 peak demand forecast, plus an additional planning reserve margin. A 1-in-2 peak demand means there's a 50% chance that the forecast will be less or more than actual peak load. The CPUC's planning reserve margin is currently set to 16 percent.
- Local resource adequacy requires that load-serving entities procure the capacity needed to meet demand in the event a local transmission grid emergency occurs.
- Flexible resource adequacy requires load-serving entities to procured enough flexible capacity to meet the highest expected three-hour net load ramp each month.

If demand for electricity turns out to be significantly higher than forecasted, especially during extreme region-wide heat waves, there can be periods when there will not be enough resources to meet demand.

Imports from other California balancing areas and other state are a key part of the ISO's energy mix and they are even more critical when there are insufficient resources within the ISO footprint to meet demand.

Reliance on non-contracted imports can pose a problem.

This is particularly risky when an extreme heat wave blankets

California and the West. When energy supplies are tight, the ISO may not receive as much imported – non-contracted – energy because neighboring utilities must keep the energy they would have shared to meet their customers' needs.

During projected tight energy supplies, the ISO will issue a series of emergency notifications to obtain additional capacity or reduce energy use to relieve stress on the power grid.