



California
Legacy Partnership



Solar



TRANSITIONING AG LANDS FOR RENEWABLE ENERGY

The Energy Commission's Renewable Energy for Agriculture program offers up to \$10 million in grants for onsite renewable energy installation, cutting operational costs, enhancing reliability, and reducing greenhouse gas emissions.



UP TO \$10 MILLION

in grants to agricultural operations for onsite renewable energy installation

**STATE
ENERGY
GOALS**

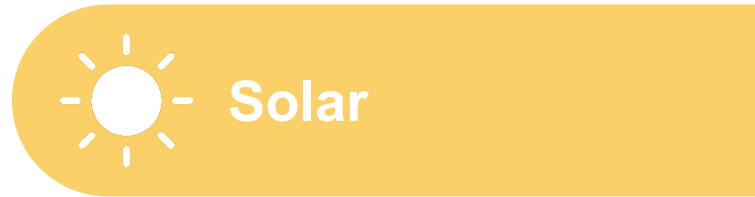


100 PERCENT

renewable electricity goal by 2045

Farmers are encouraged to adopt renewable energy solutions to **achieve California's 100% renewable electricity goal by 2045.**

- To reach the target, while electrifying other sectors to meet the state's climate goals, **California needs to roughly triple its grid capacity.**
- California must sustain its expansion of clean electrical generation at a record-breaking rate for the next 25 years. On average, **the state needs to build up to 6 gigawatts (GW) of new renewable and storage resources annually**, compared to the last decade, where just 1 GW of utility solar and 300 megawatts (MW) of wind were added per year. **Over the next three years, electricity providers will add another 8 GW of clean energy resources.**
- **Large-scale solar is projected to provide more than half of the grid's power by 2045**, in addition to nearly 35,000 MWs of new rooftop solar.



*“Although conceived separately, the goals and timelines of the Sustainable Groundwater Management Act and SB 100 present important synergies. **Informed, coordinated policy implementation could benefit California’s energy consumers while supporting economic stability in one of the state’s most economically challenged regions. Under SGMA, most valley GSAs will need to achieve sustainable management of their basins by 2040, but projects and actions to reduce groundwater demand – mostly by idling or retiring land – will need to begin before that. Likewise, to meet a 100 percent renewable and zero-carbon electricity goal by 2045, developments in the valley will need to be planned, permitted, and installed long beforehand.**”*

“Solar Energy and Groundwater in the San Joaquin Valley”, *Public Policy Institute of California*, October 2022, <https://www.ppic.org/publication/solar-energy-and-groundwater-in-the-san-joaquin-valley/>

CLEAN ENERGY ALTERNATIVE FOR LAND OWNERS



DIVERSIFIED INCOME

Leasing land for solar development provides steady income through lease agreements or power sales to utilities



ENERGY COST SAVINGS

Reduces electricity costs for irrigation and other operations, offering long-term savings and protection against rising electricity prices



IMPROVED WATER MANAGEMENT

Enhances water conservation by providing shade to reduce evaporation from water surfaces, especially when co-located with groundwater recharge infrastructure



ENVIRONMENTAL BENEFITS

Reduces greenhouse gas emissions, aiding environmental sustainability and climate change mitigation



ENHANCED RESILIENCE

On-site solar installations with energy storage ensure reliable power supply during grid outages, bolstering farm operations’ resilience