



BY THE NUMBERS

- **150 GWh** annually
- **92,000 tons CO₂** eliminated annually
- **\$40M** in federal funds

COMMUNITY IMPACT

About 30 local employees operate and maintain the plant in the town of Fallon, and Churchill County, a small desert community, is powered by 100% renewable energy. The solar panel installation, built by IBEW electricians, brought \$40 million in federal funds to Nevada, under the Section 1603 grant program.

THREE RENEWABLES ARE BETTER THAN ONE

The Stillwater Solar Geothermal Hybrid Project is a first-of-its-kind renewable energy power plant. Combining three different energy technologies, the project uses solar photovoltaic (PV), concentrated solar power (CSP), and geothermal technologies to generate enough electricity to meet the annual needs of 15,000 households. The plant has a generating capacity of 2 MW of solar thermal, 26.4 MW of solar photovoltaic, and 33 MW of geothermal power, with NV Energy purchasing all of the plant's output. Enel Green Power North America's triple-hybrid project was developed in collaboration with the U.S. Department of Energy's Idaho National Laboratory and National Renewable Energy Lab.

Established as a geothermal power plant in 2009, Stillwater added 89,000 solar panels in 2012 to generate more electricity during the sunniest part of the day. The plant's CSP, or solar thermal, was then added to the plant in 2015 to increase the temperature of the geothermal brine and create more power to spin its electricity-producing turbines. The economic and environmental benefits of combining geothermal and solar have been noticeable. The plant reduces an estimated 92,000 tons of CO₂ emissions per year. The CSP addition increased the plant's overall output by 3.6% and reduced the levelized cost of energy by 5%.

SUPPORT MORE PROJECTS LIKE THESE

Making the investment tax credit (ITC) for solar and geothermal energy refundable, funding demonstration of new innovative energy technologies and systems, and prioritizing investments that employ local workers can bring more projects like this to Nevada.