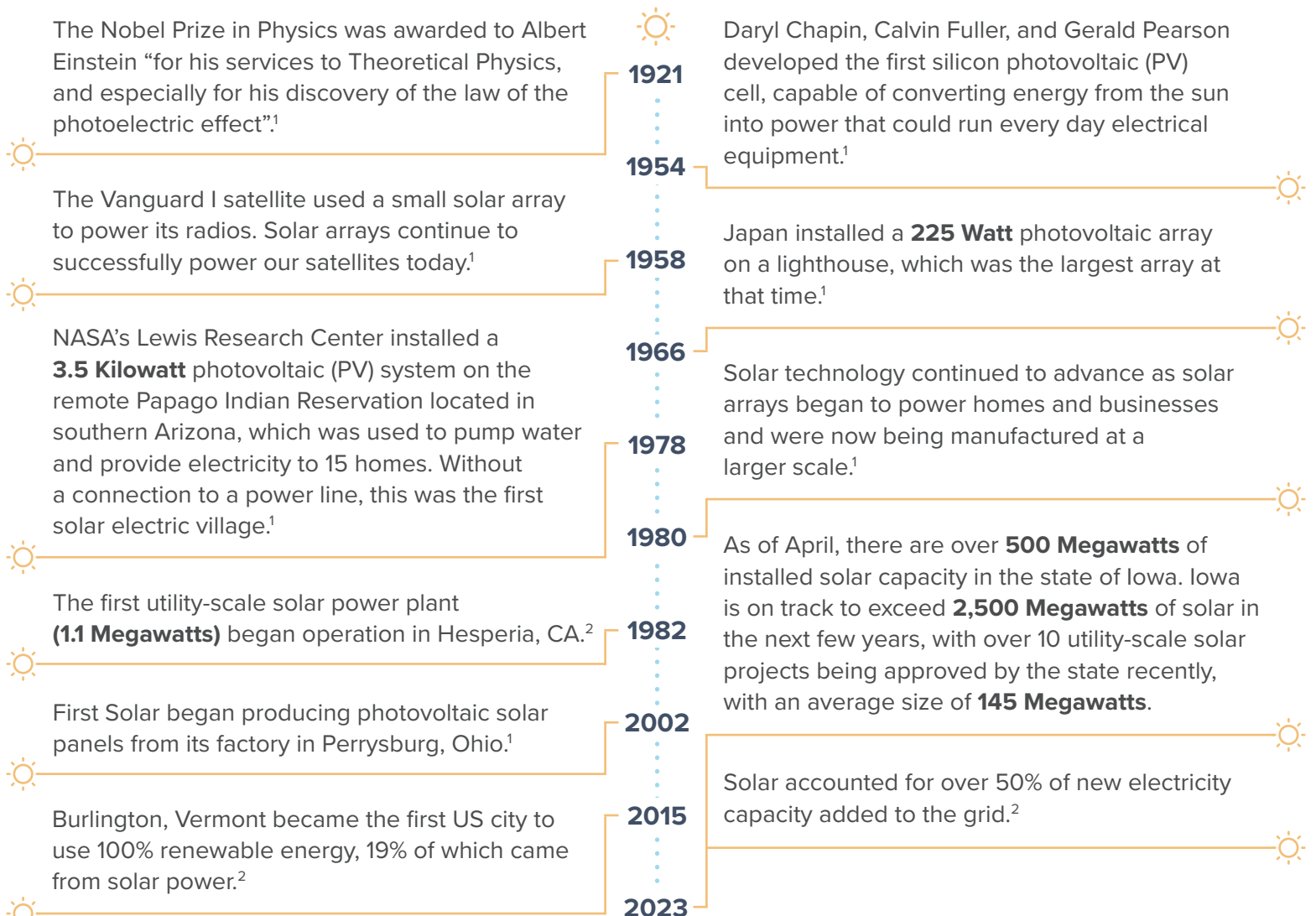




Welcome to the Princess City Solar Newsletter. In this newsletter, we are excited to share project updates and information regarding utility-scale solar regularly. An important part of our job is to educate and provide information about solar projects and their benefits to Pocahontas and Calhoun counties.

Solar History

Humanity utilizes the sun as a resource for light, heat, and of course, electricity. From the Greeks and the Romans utilizing mirrors and sunlight to ignite torches,¹ to the discovery of electricity being produced when certain elements are exposed to light, the sun has been a source of energy for all human history. Today, we have access to simple, clean, and affordable electric generation using photo-voltaic cells. Here's a snapshot of how we got here below:

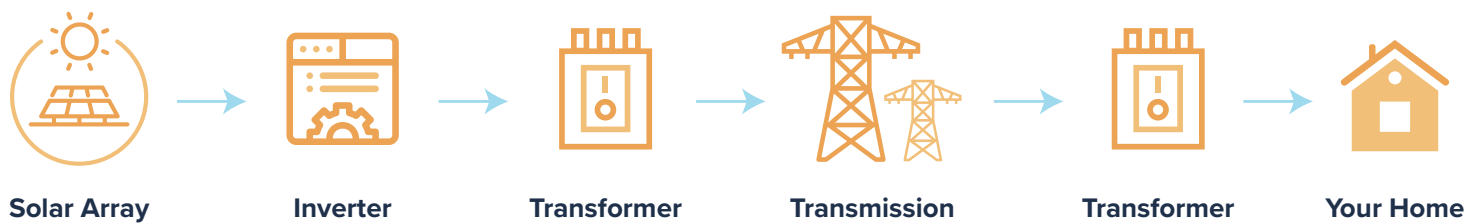


How Solar Works

In just 90 minutes, enough sunlight strikes the earth's surface to handle the entire world's energy consumption for one year.⁴ By utilizing photovoltaic (PV) solar panels, we can capture a fraction of this energy to power our homes, businesses, and communities. This may raise a question, however – how does solar work and how do we use it?

Solar panels used for utility-scale solar projects, such as the proposed Princess City Solar Project, are mounted on tilted single-axis tracking systems that follow the sun from east to west, capturing the sun's energy throughout the day. As the sun shines onto a solar panel, the energy from sunlight is absorbed by the PV cells. "The energy absorbed by the panels then produces electricity which is delivered to users who are utilizing locally sourced renewable energy."

The solar power produced by the array can power homes, businesses, and communities in the area. This energy flows similarly to water by utilizing the path of least resistance, meaning that if there is energy demand close to the solar array, then power from the array and other available energy resources will flow on the grid to fulfill that need. Once the need for energy at that source is fulfilled, energy will continue to flow down the line to meet additional energy demand. Power can also be directed by the local grid operator to ensure that power is being appropriately distributed across the grid. Adding power to the electric grid, sourced from a local array, allows the county and state to harness energy from our most abundant resource – the sun - and keep our energy independence.



CITATIONS

1. www.eere.energy.gov/solar/pdfs/solar_timeline.pdf
2. <https://www.seia.org/blog/solar-century-landmark-moments-history-solar-energy>
3. <https://www.energy.gov/eere/solar/how-does-solar-work>



**FOR MORE INFORMATION ON
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