


<b>DOE Hydrogen Program Record</b>		
<b>Record: 23003</b>	<b>Date: June 2, 2023</b>	
<b>Title: Electrolyzer Installations in the United States</b>		
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**Item**

Planned and existing polymer electrolyte membrane (PEM), solid oxide electrolyzer cell (SOEC), and alkaline electrolyzer installations in the United States (including firm announcements and those under construction) totaled approximately 3.7 GW as of May 2023. Most of this capacity is for PEM electrolyzers with a nominal amount (<10%) for SOEC and alkaline systems. This Record includes electrolyzer capacities of 120 kW or greater per site and does not include smaller units such as those used for laboratory research.

Table 1 lists locations and capacities of current and planned PEM, SOEC and alkaline electrolyzer installations in the United States. This information is based on input from electrolyzer manufacturers and publicly available information but listed without attribution to any individual electrolyzer company or to specific end users. While several additional plans may have been announced, this record focuses on plans that have been funded (e.g., DOE projects or other financing already in place).

Current installed capacity is approximately 67 MW, while planned, firm capacity (with construction under way) is approximately 3.6 GW. Capacity for electrolyzers installed ranges from 120 kW to 40 MW, while capacity for planned installations ranges from 120 kW to 1.25 GW. As installations and announcements are continuously being updated, this Record only documents information<sup>1</sup> available at the time of this posting (May 2023).

**Table 1. Current or Planned Installations of Electrolyzers (PEM, SOEC, Alkaline) in the U.S. as of May 2023**

Location	Power (kW)	Status
<b>Corpus Christi, TX</b>	1,250,000	Planned
<b>LaSalle, IL</b>	320,000	Planned
<b>Amarillo, TX</b>	240,000	Planned
<b>Laramie County, WY</b>	240,000	Planned
<b>Lubbock County, TX</b>	240,000	Planned
<b>Pueblo County, CO</b>	240,000	Planned
<b>Delta, UT</b>	220,000	Planned

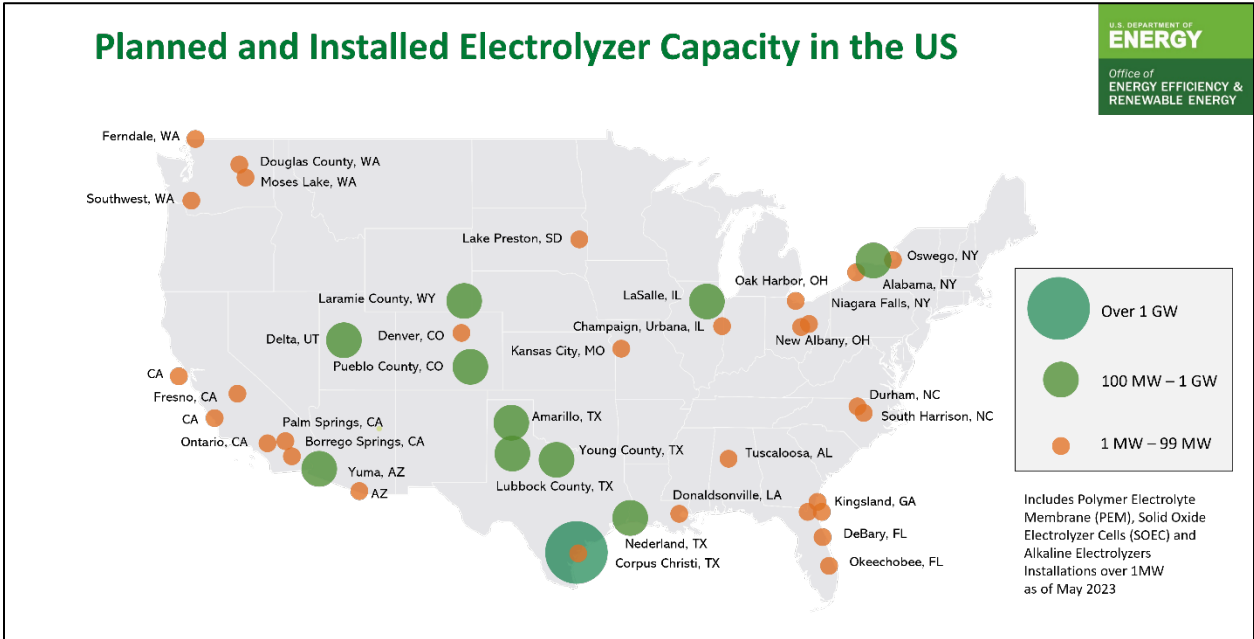
<sup>1</sup> In some cases the specific city within a state was not reported or publicly available

<b>Alabama, NY</b>	200,000	Planned/Under Construction
<b>Nederland, TX</b>	120,000	Planned/Under Construction
<b>Young County, TX</b>	120,000	Planned/Under Construction
<b>Yuma, AZ</b>	120,000	Planned
<b>Fresno, CA</b>	80,000	Planned
<b>AZ</b>	40,000	Planned
<b>Kingsland, GA</b>	40,000	Installed
<b>Kingsland, GA</b>	40,000	Planned/Under Construction
<b>Niagara Falls, NY</b>	35,000	Planned
<b>Okeechobee, FL</b>	25,000	Planned/Under Construction
<b>Donaldsonville, LA</b>	20,000	Planned/Under Construction
<b>Lake Preston, SD</b>	20,000	Planned
<b>New Albany, OH</b>	10,000	Planned/Under Construction
<b>New Albany, OH</b>	10,000	Planned/Under Construction
<b>Corpus Christi, TX</b>	5,000	Planned/Under Construction
<b>Douglas County, WA</b>	5,000	Planned/Under Construction
<b>Ferndale, WA</b>	5,000	Planned/Under Construction
<b>Kingsland, GA</b>	5,000	Installed/Operational
<b>Ontario, CA</b>	5,000	Planned/Under Construction
<b>Mountain View, CA</b>	4,000	Installed/Operational
<b>DeBary, FL</b>	2,000	Planned/Under Construction
<b>Durham, NC</b>	2,000	Planned/Under Construction
<b>Oak Harbor, OH</b>	2,000	Planned/Under Construction
<b>Palm Springs, CA</b>	2,000	Installed/Operational
<b>Southwest WA</b>	1,500	Installed/Operational
<b>Arvada, CO</b>	1,250	Installed/Commissioning
<b>Oswego, NY</b>	1,250	Installed/Operational
<b>CA</b>	1,250	Planned/Under Construction
<b>Borrego Springs, CA</b>	1,000	Planned/Under Construction
<b>Champaign, Urbana, IL</b>	1,000	Installed/Operational
<b>Denver, CO</b>	1,000	Installed/Operational
<b>Kansas City, MO</b>	1,000	Installed/Operational
<b>Moses Lake, WA</b>	1,000	Planned/Under Construction
<b>South Harrison, NC</b>	1,000	Planned/Under Construction
<b>Tuscaloosa, AL</b>	1,000	Installed/Operational
<b>CA</b>	900	Planned/Under Construction
<b>Orlando, FL</b>	500	Planned/Under Construction
<b>Prairie Island, MN</b>	500	Planned/Under Construction
<b>Sonoma, CA</b>	500	Installed
<b>CA</b>	250	Installed/Commissioning
<b>Idaho Falls, ID</b>	250	Installed/Operational

<b>Red Wing, MN</b>	250	Planned/Under Construction
<b>Austin, TX</b>	180	Installed
<b>Austin, TX</b>	180	Installed
<b>Boston, MA</b>	180	Planned/Under Construction
<b>CA</b>	180	Installed
<b>CA</b>	180	Installed
<b>CA</b>	180	Installed
<b>CA</b>	180	Installed
<b>CA</b>	180	Installed
<b>CA</b>	180	Installed
<b>Columbus, IN</b>	180	Installed
<b>Columbus, OH</b>	180	Installed
<b>Costa Mesa, CA</b>	180	Installed
<b>Emeryville, CA</b>	180	Installed
<b>GA</b>	180	Installed
<b>GA</b>	180	Planned/Under Construction
<b>HI</b>	180	Installed
<b>HI</b>	180	Installed
<b>HI</b>	180	Installed
<b>Leesport, PA</b>	180	Installed
<b>Lexington, MA</b>	180	Installed
<b>MA</b>	180	Planned/Under Construction
<b>Mahwah, NJ</b>	180	Installed
<b>NJ</b>	180	Installed
<b>Oakland, CA</b>	180	Installed
<b>San Francisco, CA</b>	180	Installed
<b>San Francisco, CA</b>	180	Installed
<b>San Francisco, CA</b>	180	Installed
<b>San Jose, CA</b>	180	Installed
<b>San Jose, CA</b>	180	Installed
<b>Santa Clara, CA</b>	180	Installed
<b>SC</b>	180	Planned/Under Construction
<b>Tempe, AZ</b>	180	Installed
<b>WA</b>	180	Planned/Under Construction
<b>Braintree, MA</b>	120	Installed
<b>CA</b>	120	Planned/Under Construction
<b>CA</b>	120	Installed
<b>CA</b>	120	Installed
<b>Canandaigua, NY</b>	120	Installed
<b>Hertford Cty, NC</b>	120	Installed
<b>KY</b>	120	Installed

<b>KY</b>	120	Installed
<b>Lincoln, RI</b>	120	Installed
<b>MA</b>	120	Installed
<b>NC</b>	120	Installed
<b>NY</b>	120	Installed
<b>NY</b>	120	Installed
<b>NY</b>	120	Planned/Under Construction
<b>OH</b>	120	Installed
<b>PA</b>	120	Installed
<b>San Carlos, CA</b>	120	Installed
<b>San Carlos, CA</b>	120	Installed
<b>Sugar Land, TX</b>	120	Installed
<b>UT</b>	120	Planned/Under Construction
<b>Total</b>	<b>3,690,740</b>	

**Figure 1. Current or Planned Installations of Electrolyzers (PEM, SOEC, Alkaline) over 1 MW in the U.S. as of May 2023<sup>2</sup>**



<sup>2</sup> Bubbles not drawn to scale and are for illustrative purposes only