

Sept 2, 2022

**PASADENA 100 FACT Sheet: SB 1020
New Dates for Transitioning
to Carbon Free Energy**

This bill from State Senator John Laird (passed Assembly & Senate, August 31, awaiting Governor's signature) increases the pace of California's transition to 100% carbon free energy by setting additional interim targets (90% by 2035 and 95% by 2040).

SB100's targets (current law since 2018)

2030: 60% of all retail sales of electricity from renewable energy

2045: 100% of all retail sales of electricity from zero-carbon¹ resources

2045: 100% of all State agency electricity from zero carbon resources

SB100 + SB1020 (accelerated schedule, *new requirements in italics*)

2030: 60% of all retail sales of electricity from renewable energy

2035: 90% of all retail sales of electricity from zero-carbon resources

2035: 100% of all State agency electricity from zero carbon resources

2040: 95% of all retail sales of electricity from zero-carbon resources

2045: 100% of all retail sales of electricity from zero-carbon resources

¹ Zero-carbon resources include renewable energies (wind, solar, geothermal, green hydrogen) as well as big-hydro, nuclear, and fossil fuel plants incorporating carbon-capture.

This change in law means that utility companies in California will have to transition to carbon free energy much more quickly than before. If these utilities follow a linear, straight-line path during their transitions, under SB100 (the former law) the State's carbon free energy portfolio in 2025 would have to equal 47%, increasing to 60% in 2030. Under the new law, (again assuming linear, straight-line growth), the carbon free energy portfolio in 2025 should be 80%, increase to 85% in 2030, and then reach the new interim requirement of 90% in 2035.

SB 1020 *effectively* escalates California's carbon free energy requirements in 2030 from 60% to 85%.

SB 1020 also requires State agencies to achieve 100% carbon free energy 10 years faster than before.

Relevance to *Pasadena 100*:

- 1) Weaker headwinds in opposing our demand for 100% carbon free electricity. With the stroke of Governor Newsom's pen, PWP will be required to generate 90% of its load in 2035 from carbon free energy. Given this circumstance, PWP's energy transition will have to accelerate and, following the linear growth model, it needs to achieve 85% carbon free electricity by 2030. The additional step beyond the law that's necessary in order to satisfy *Pasadena 100*'s goal (85% to 100%) is a small jump compared to going from 60% to 100%, supporting our logic of going directly to 100% by 2030 in order to retire climate risk.
- 2) The new law makes 2025 to 2035 a critical period. No more waiting until the last minute to figure out how to achieve 100% goals.