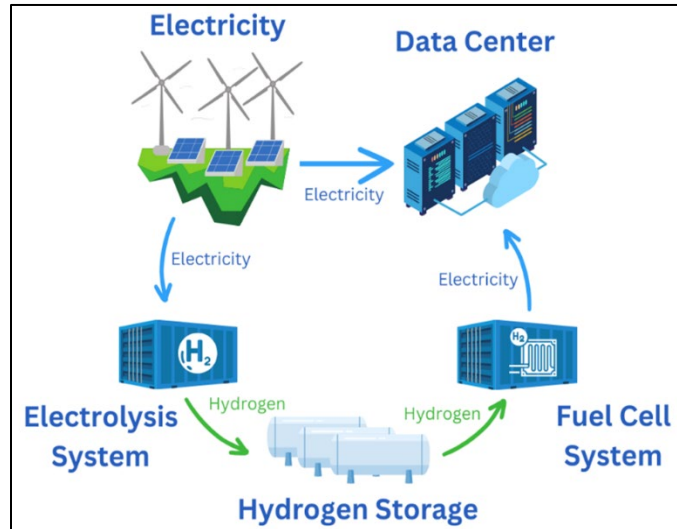


## HyPower Data Centers

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As the use of artificial intelligence grows and demand of advanced computing strains energy demand, it is important to consider how large data centers will find sustainable sources of energy. HyPower data centers will use PEM electrolysis for production of hydrogen using energy from our on-site wind farm when generation is higher than data center needs. This technology has a wide operating capacity range, fast start-up, and efficient operation. During outage events, we can feed this hydrogen back to either our PEM fuel cell system or a series of reciprocating engines to generate power and keep the data center running. The fuel cells are more efficient and quieter but would be much more expensive to operate. For the most competitive



Levelized Cost of Energy compared to diesel generator sets we will also liquefy our hydrogen on-site and store it in insulated tanks. Chart will build, deliver, and set up storage and operations for approximately \$10 million. This includes a double-walled 9,000-18,000-gallon liquid storage tank, compressed storage tank, and a compressor.

Total capital cost of the project will comprise of four components 1) On-site wind facility for power generation with a capacity of 5MW 2) Electrolyzer cost to produce 2.25 MT/d of H<sub>2</sub> 3) H<sub>2</sub> compression and storage 4) Fuel cell stack to generate power from stored hydrogen. Additionally, operating and maintenance costs associated with each of the above components will be included to determine project economics. Electricity prices and electrolyzer costs are the biggest drivers of levelized cost of hydrogen (LCOH). With a decrease in electrolyzer cost and power cost from wind generation due to rapid growth in industry scale and technological advancement, combined with wind PTCs and 45V H<sub>2</sub> tax credits, LCOH is estimated to be \$1.36/kg H<sub>2</sub> (close to DOE H<sub>2</sub> price target of \$1/kg and competitive to other technologies).

Multiple sustainability policy initiatives have been developed in the last several years, and the team believes these will also play to the advantage of our project. Not only will we take advantage of 45V tax incentives, but a program known as Justice40 is associated with a developing hydrogen hub in the Pacific Northwest region. This hub can help establish a hydrogen economy in the area and encourage additional investment in the project while also benefiting the local community with overall economic growth.