H2B2 Electrolysis Technologies

SoHyCal Green Hydrogen Station

University California Irvine- April 22nd, 2025

- H2B2 is producing renewable hydrogen for mobility in CA Central Valley.
- Production will ramp up to **1,290 tons per year** by end of S1 2026.
- SoHyCal **started operations** on **September 2023** with a capacity of 300 kg/day.
- SoHyCal is a pioneering project, being the first of its kind to be powered **behind the meter**, 100% renewable energy powered facility by means of biogas and solar energy.

Hydrogen will be generated and injected into tube trailers for storage and transported **gaseous** at up to 520 bars, with a production 100% dedicated to mobility in California Central Valley.

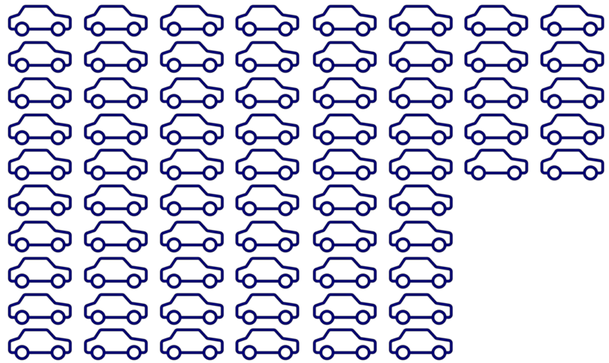
Source: Hydrogen Council, McKinsey & Company - Hydrogen Insights Report 2021

Why Hydrogen for mobility?

- The most abundant element in the universe.
- Easy to extract, high calorific value.
- Can be used as fuel, as energy vector.
- Can be produced anywhere in the world where there is water and energy.

Target: heavy vehicles.

- Higher emissions per mile.
- Longer daily operations.
- Every hydrogen truck **can eliminate the equivalent emissions of 70 cars.**



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Source: Hydrogen Council, McKinsey & Company - Hydrogen Insights Report 2021

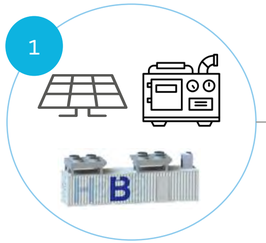
SoHyCal Project

- 3-MW electrolyzer: Assembly completed; factory acceptance tests; shipped and arriving at site

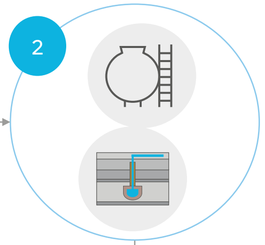
SoHyCal Project
H2B2 – Development

H2B2 Electrolysis Technologies

H2 Production Plant | **Storage & Distribution** | **End Uses**

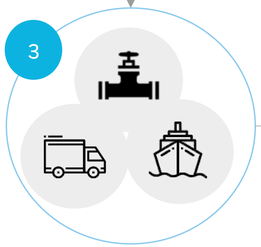


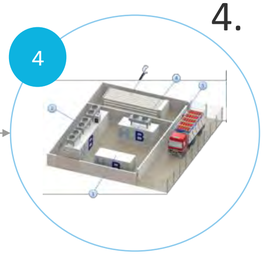
1. Enable large-scale, efficient renewable Energy integration



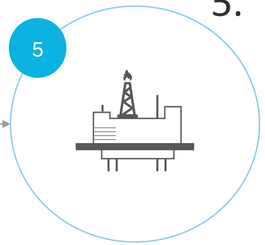
2. Storage in gaseous state or liquified. Tanks and underground

3. Distribution will initially be done through tube trailers and later on by injecting in pipeline

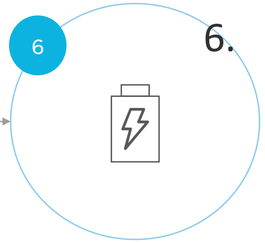




4. Supply existing network of hydrogen refueling stations in California



5. Industrial uses such as refineries, ammonia production or others



6. Substitute natural gas in existing turbines for power generation

SoHyCal Project
equipment

Thank you

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