

Fusion is the process of atoms combining to create a single atom.

In accordance with $E=mc^2$, energy is released in the process

Fusion: A clean, reliable, and abundant energy source



Fusion offers **zero-carbon, baseload** power using very little fuel.

One 500 ml bottle of deuterium water can power a home for **865 years**.

Clean

- Zero carbon
- No high-level waste
- Part 30 regulation

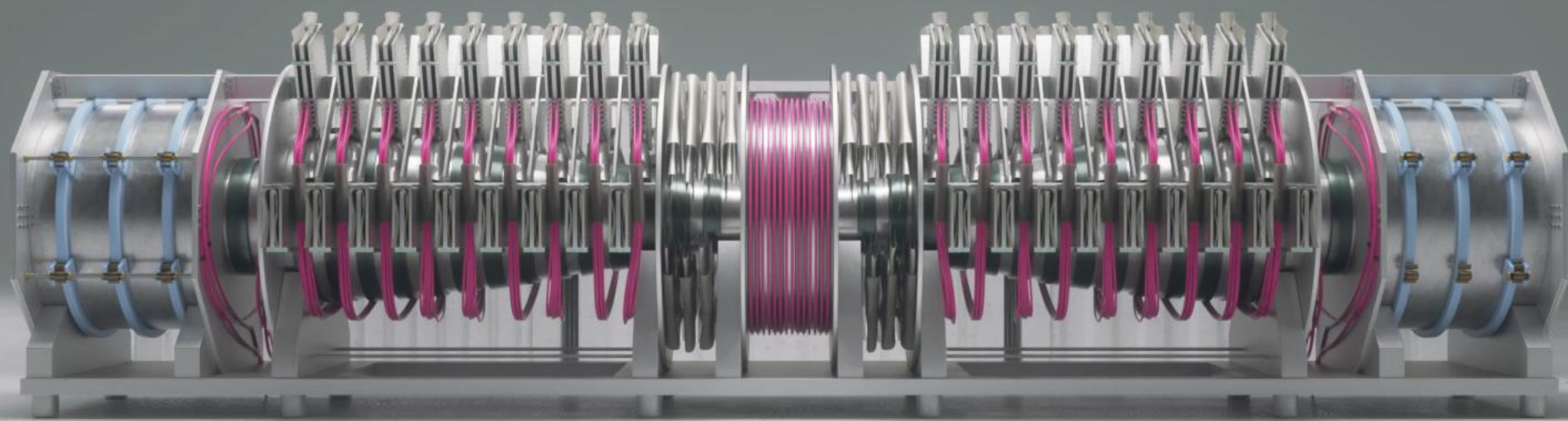
Reliable

- 24/7 power generation
- No meltdown risk
- Load-following

Abundant

- Fuel comes from fresh or salt water
- 50 MW plant in 30K sq. ft.





Results

Machines built

6

Fusion pulses

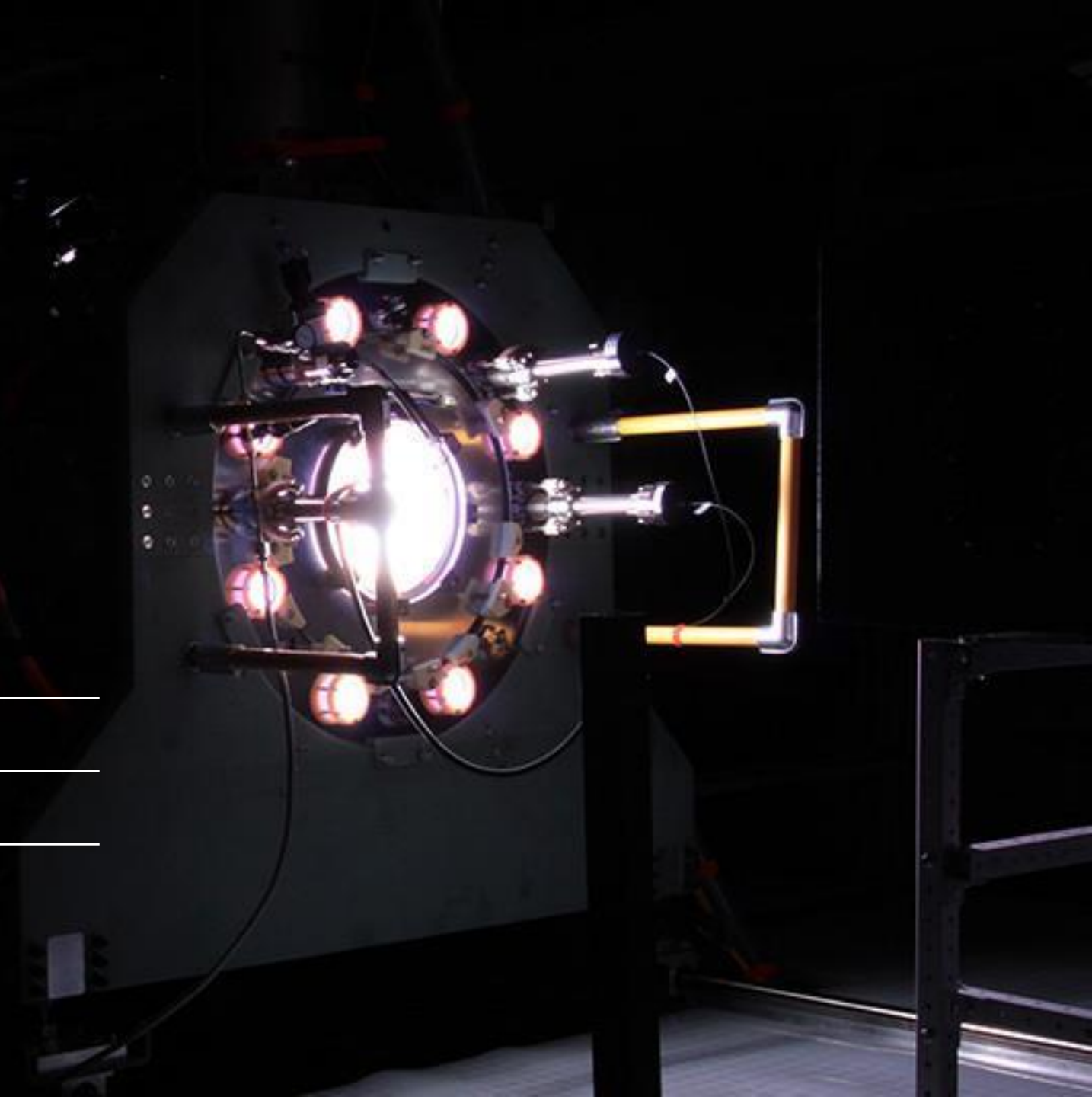
10,000 +

Temperatures achieved

100 M°C

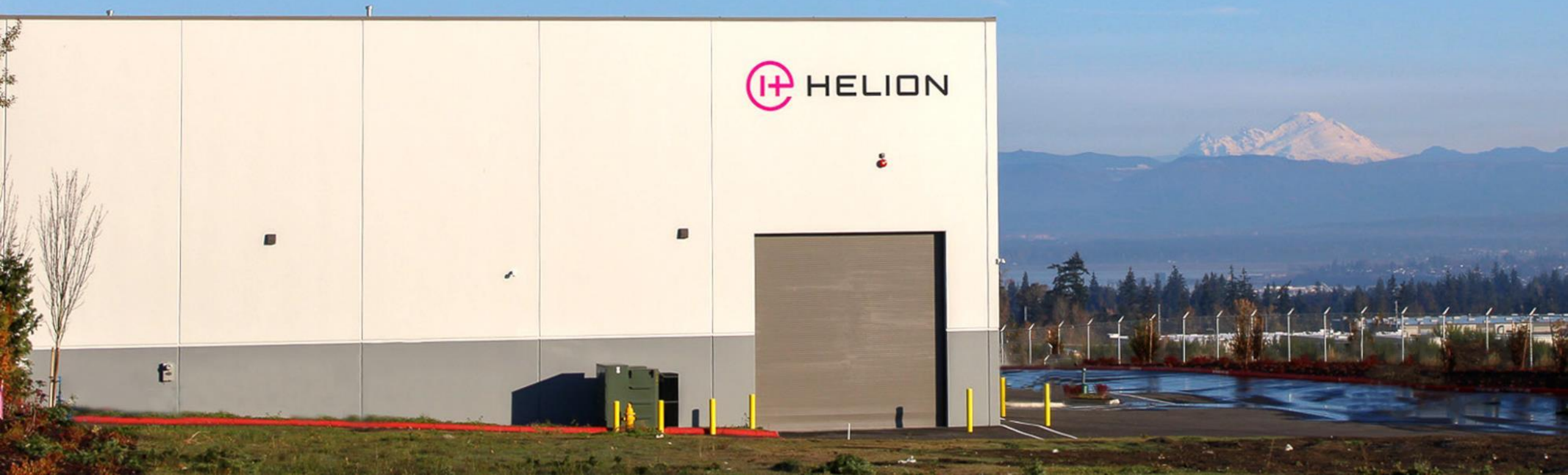
Bulk fusion achieved in:

D-D, D-He-3



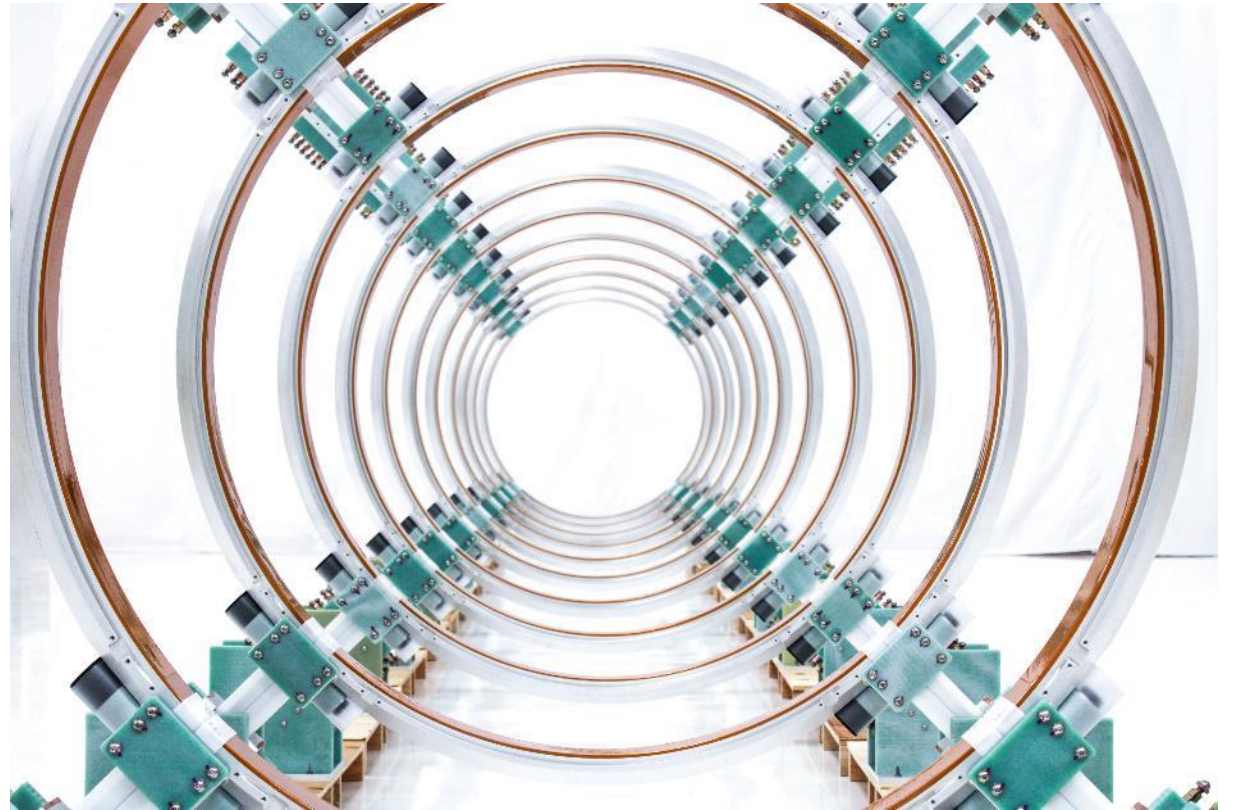
Polaris: Helion's 7th fusion prototype

- Machine is currently under construction
- Expected completion: Early 2024
- Regulated by the WA Department of Health
- Goal: Demonstrate electricity from fusion



World's first fusion power plant

- Expected completion: 2028
- First customer: Microsoft
- Power Marketer: Constellation
- Site: Washington
- Output: 50 MW+



 HELION



A photograph of the interior of a Helion fusion reactor. The image shows a long, narrow tunnel with a series of large, white, cylindrical components arranged in a row. The lighting is dim, with a strong purple and blue glow emanating from the left side, highlighting the intricate wiring and structural elements of the reactor. The perspective is from the end of the tunnel, looking down its length.

HELION

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