

Energy

Crusoe is the energy-first AI factory company. We plan power from the start, tailored to each site, and pay for on-site generation and infrastructure upgrades when needed to avoid impacts on local residents and businesses. We're also looking towards the future – and driving investments in the clean baseload technologies the industry needs.

AN ENERGY-FIRST APPROACH TO DIGITAL INFRASTRUCTURE

Crusoe employs an all-of-the-above strategy that combines utility power, on-site generation, and long-term clean energy partnerships to deliver the reliable, gigawatt-scale supply that AI infrastructure demands. Our approach:

- Plan firm power for 24/7 operations and layer in appropriate backup solutions at the start of each project.
- Evaluate local conditions early and design each site around the mix of supply solutions – including batteries and renewables – that best supports long-term performance and reliability for that site.
- Fund upgrades to shared local grid infrastructure like power lines and substations, which benefit the community, not just our campus.

“Energy is the starting point for every decision: where we build, how we power it, how we cool it, and how we minimize what we consume along the way.”

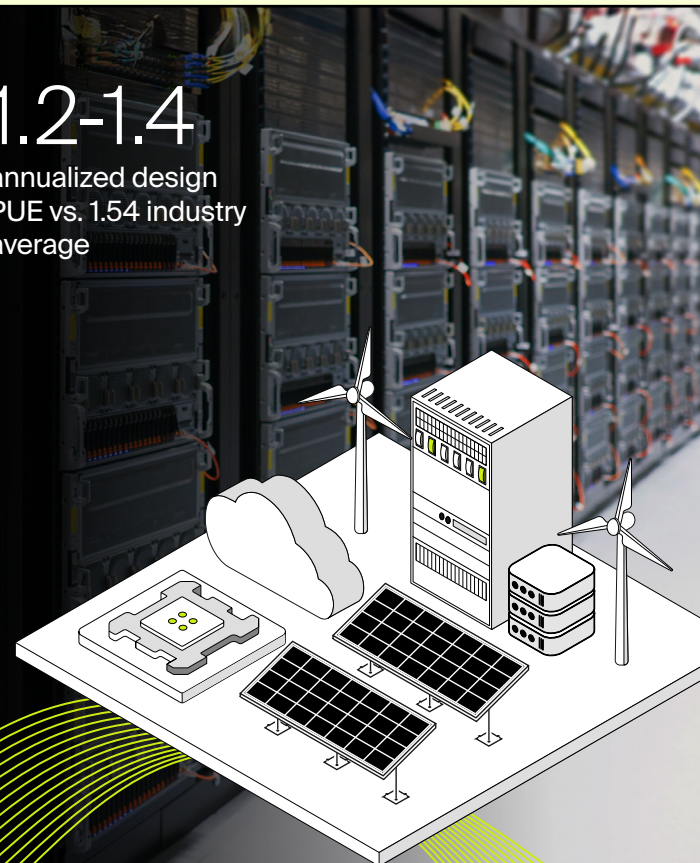
**Chase Lochmiller
& Cully Cavness,**
Co-founders, Crusoe

REDUCING ENERGY INTENSITY THROUGH EFFICIENCY

Every Crusoe data center is designed to get the most AI output for every unit of energy.

- Right-size equipment, optimize building design, and select high-efficiency cooling and electrical systems.
- Design data centers with annualized Power Usage Effectiveness (PUE) of 1.2-1.4, below the industry average of 1.54, and target further reductions.
- Integrate MemoryAlloy™, our memory optimization technology, into Crusoe Cloud to eliminate redundant processing across GPU clusters – helping customers get more compute for the same amount of energy.
- Go beyond compliance on air quality by installing Selective Catalytic Reduction systems on all turbines and generators to reduce air pollutants and avoid impacting local air quality.

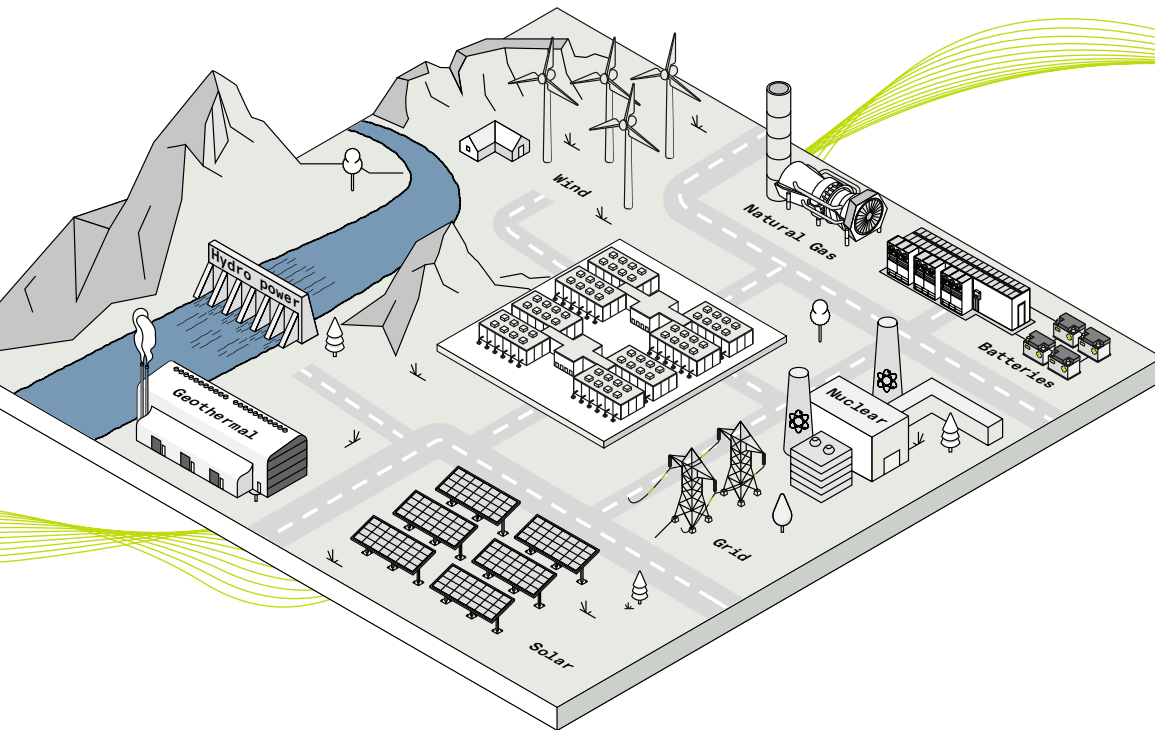
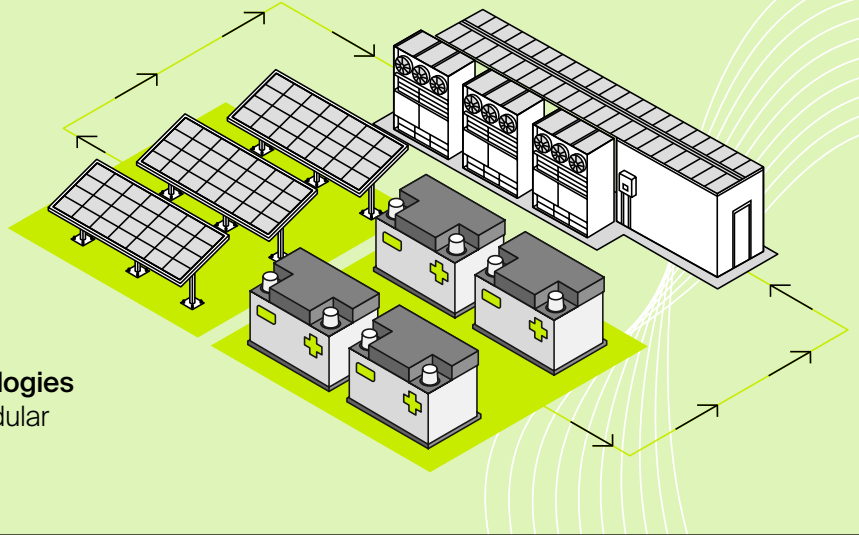
1.2-1.4
annualized design
PUE vs. 1.54 industry
average



SCALING CLEAN BASELOAD POWER

We prioritize clean energy and use our projects to incentivize further clean energy development to help solve the challenge of reliable, around-the-clock clean power.

- **Claude, TX data center campus** is co-located with an existing wind farm and catalyzed the construction of a new second wind farm.
- **Crusoe Cloud** uses renewable sources including wind, solar, hydro, and geothermal.
- We invest in **next-generation clean energy technologies** such as long-duration battery storage and small modular nuclear reactors.



100%
of Crusoe Cloud
electricity matched
with renewable energy

12 GWh
of multi-day iron-air
battery storage in
development

Collaboration with Redwood Materials to repurpose second-life EV batteries for low-cost energy storage, enabling us to power a Crusoe Spark data center with **solar energy 99.2% of the time.**

