



Renewable Innovation & Green Hydrogen

Tom Buttgenbach, Founder & CEO

NCPA Annual Conference - September 2021

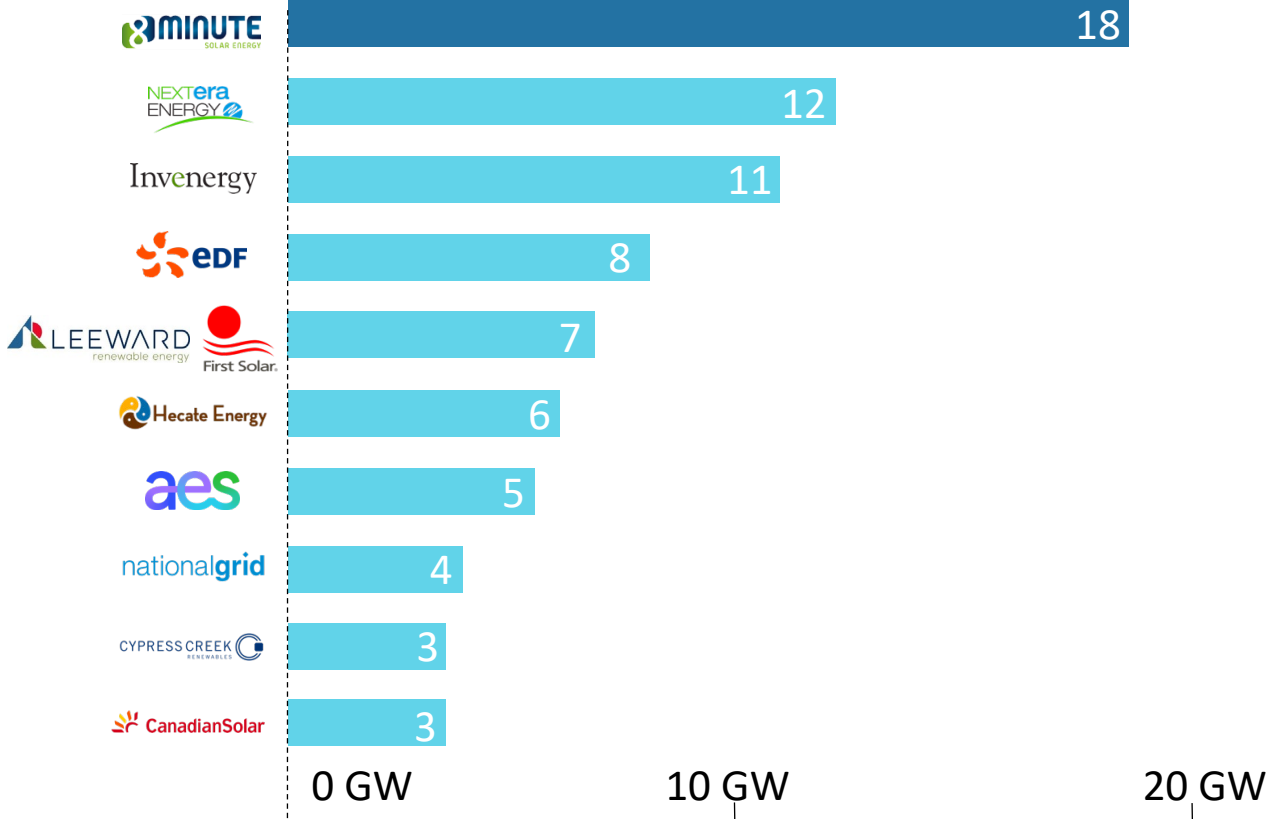


8minute is committed to leveraging technology to provide the cleanest, most reliable and lowest cost electricity.

Eland Solar & Storage Center

The largest pipeline in the United States

Power plant pipeline for utility-scale solar, GW



Source: BNEF 2021, 8minute publicized pipeline



Proven Track Record

8minute is the nation's largest solar and energy storage developer with a pipeline of projects that will power the lives of 20 million Americans.

SUCCESS AT SCALE IN SOUTHWESTERN US

18,000 MW solar under development

24,000 MWh storage under development

5,400 MW of solar contracted

4,500 MWh of storage contracted

2,000 MW of operating utility-scale projects

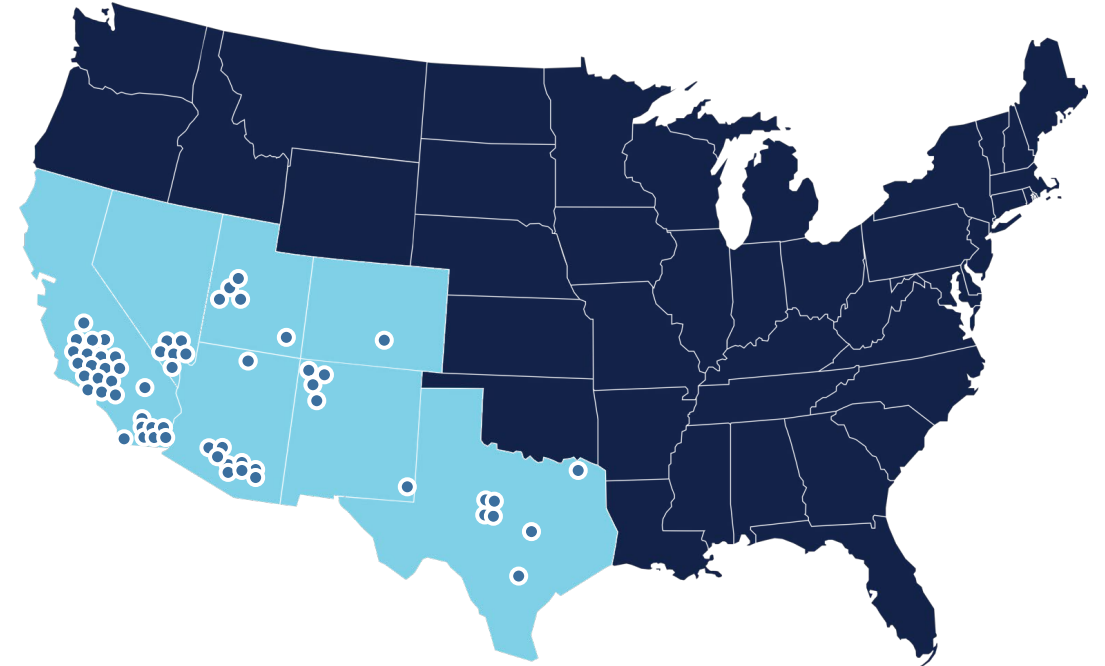
\$6 billion in capital raised for 8minute projects

CAISO TERRITORY AND MARKET ACCESS

31 projects under development

13,000 MW solar under development

18,000 MWh storage under development



18+ GW Solar and Storage Under Development in Target U.S. Regions



8minute has achieved many industry milestones...



Mount Signal

Largest solar cluster in the US

Springbok 2

First operating solar power plant to **beat coal and natural gas plant prices**

Eagle Shadow Mountain

Lowest cost energy from solar in the US

Southern Bighorn

First large scale “**super-peaker**”, replacing low-efficiency, gas peakers

Eland

First high-efficiency, high-capacity smart solar power plant with **60% summer capacity factor** matching customers’ load profile

...and now leads the way with innovation, scale and superior technology for the next generation of intelligently networked clean power plants



8minute's SMART Solar Power Plant

- **Expanded product capabilities** to meet all our customer's performance needs, including:
 - **High capacity factors** (60-90%)
 - Efficient use of assets and infrastructure by **networking multiple power plants** together
 - Ability to **deliver shapes** to match variations in seasonal load requirements and production potential
- Continued commitment to **attractive rates** for all products and services through superior design and optimization

Case Study

Eland Solar & Storage Center

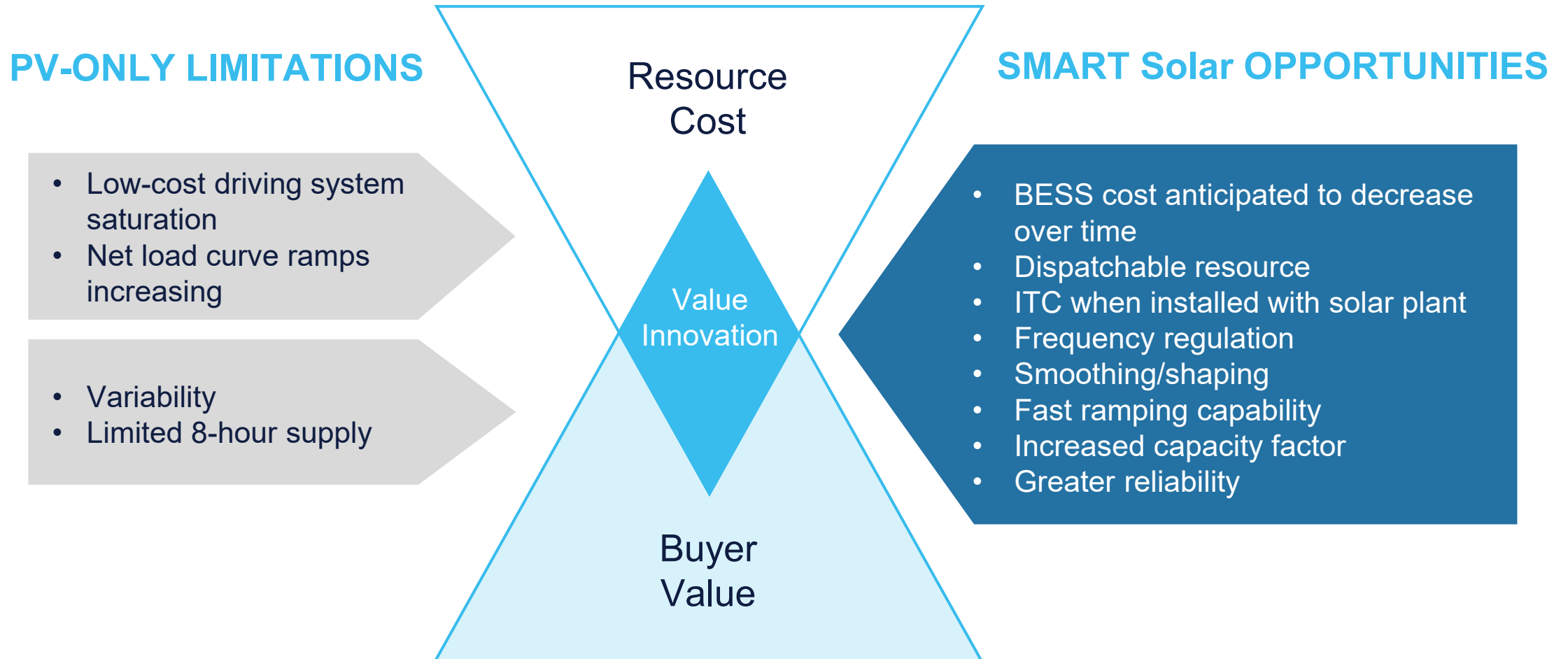


First-of-its-kind **smart power plant** will deliver clean energy at record low prices to nearly one million Californians – day and night

SIZE	400 MW _{ac}
STORAGE CAPACITY	300 MW / 1,200 MWh
LOCATION	Kern County, CA
OFFTAKERS	375 MW: LADWP 25 MW: City of Glendale
CAPACITY FACTOR	60% in the summer
AVAILABILITY	99% guaranteed
RECORD LOW-COSTS FIXED FOR 25-YEARS	<\$20/MWh for solar power <\$40/MWh with energy storage

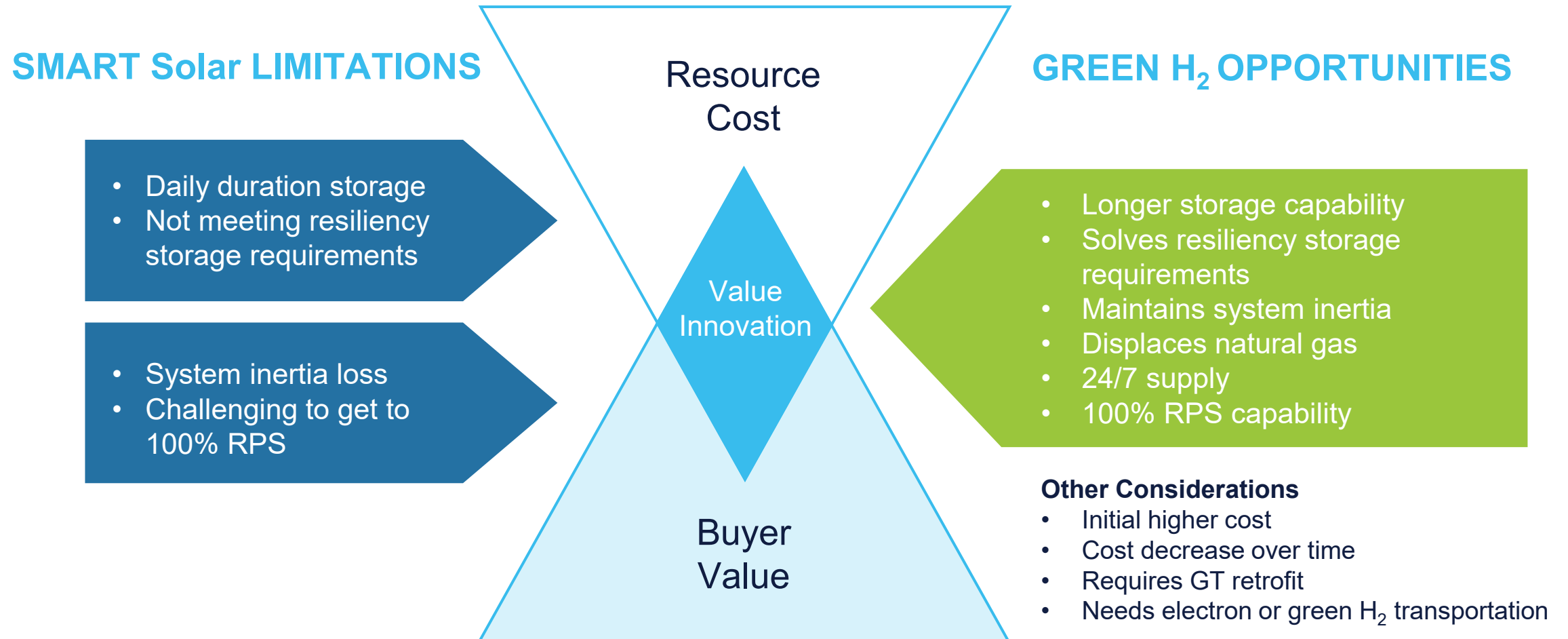
Value Innovation: From PV-Only to SMART Solar Power Plants

We look at power production through the eyes of utilities, corporates, landowners, communities and investors, then we tailor every project to maximize value across the board.



Value Innovation: SMART Solar Power Plants to Green Hydrogen

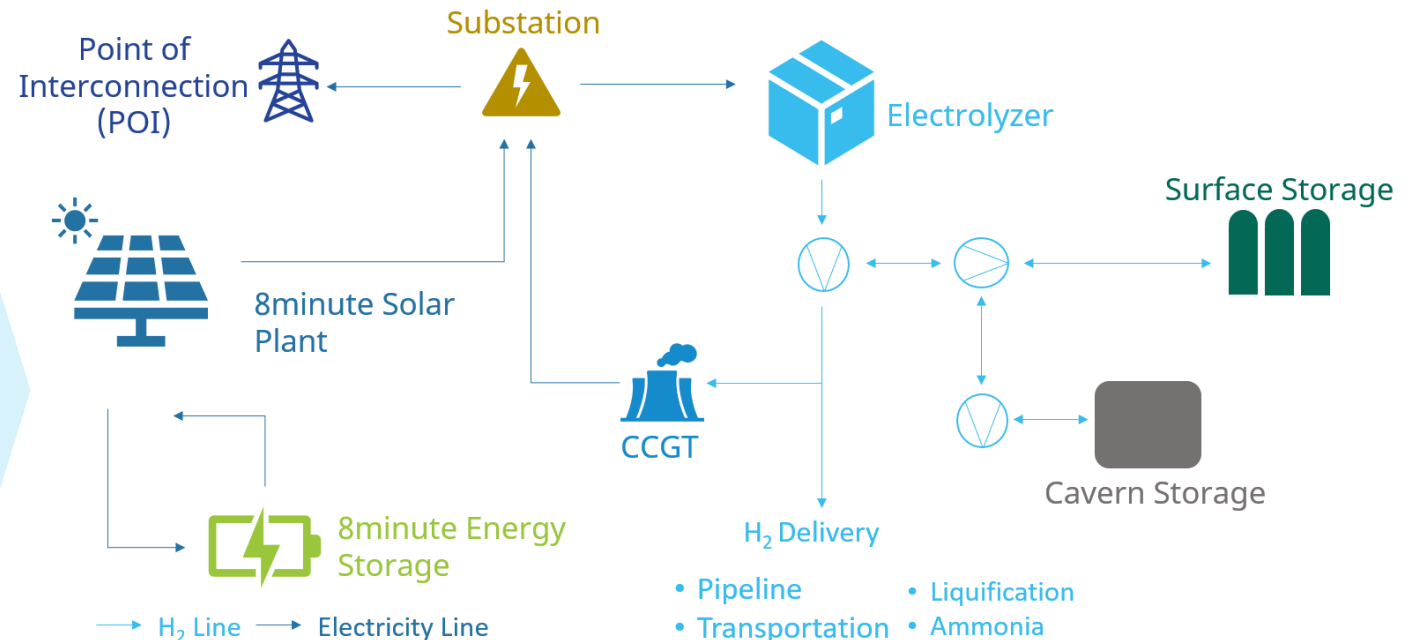
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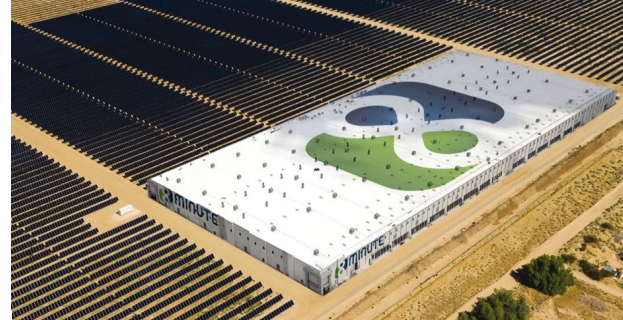
Our integrated designs reflect our powerhouse engineering and execution teams and technology-focused strategy

Integrated design optimizes utilization of the plant assets, from renewable generation to electrolyzer capacity, delivering the best solution at the lowest cost

- Digital twin design tools
 - Plant equipment
 - Weather models
 - Site layout
 - Market prices
 - System architecture
- Robust in-house engineering team
 - 43 engineers (6 PhDs)
 - Multi-domain expertise
 - Growing patent portfolio
- Propriety equipment datasets
- Best-in-class development team



Caribou Class plants showcase 8minute's technological and execution expertise for low-cost, abundant hydrogen production



Dedicated Power for Hydrogen Production



Shaped Hydrogen Production

On-site power for lowest cost production and delivery	✓	✓
Shaped power available from multiple clean energy sources to maximize electrolyzer utilization	✓	✓
Superior project locations suitable for H2 production	✓	✓
Seamless integration between power and hydrogen plants using proprietary optimization tools	✓	✓
Hydrogen production at lowest cost and capable of meeting multiple use cases		✓
Established partnerships supporting storage and transportation		✓

8minute is leading the way and investing in green hydrogen projects today with 1 to 2 GW in early-stage development

- Developing suite of H₂ specific projects tailored to match specific use cases
 - Shaped hydrogen production
 - Multi-renewable hydrogen plants
 - Full P2G2P solution for baseload power
 - Dual-use hydrogen power plants
- Developing project partnerships
- Advocating for aggressive policies to support the development of green hydrogen projects

Projects	Size	Use Case
SoCal Desert #1	400-800MW	Potential to expand to multiple hubs
SW USA Project	200-400MW	Large scale H ₂ project
NV Project	25-50MW	Serving LA region
LA County	400-600MW	Potential green hydrogen hub
Kern County	25MW	Transportation off-taker



Thank you

