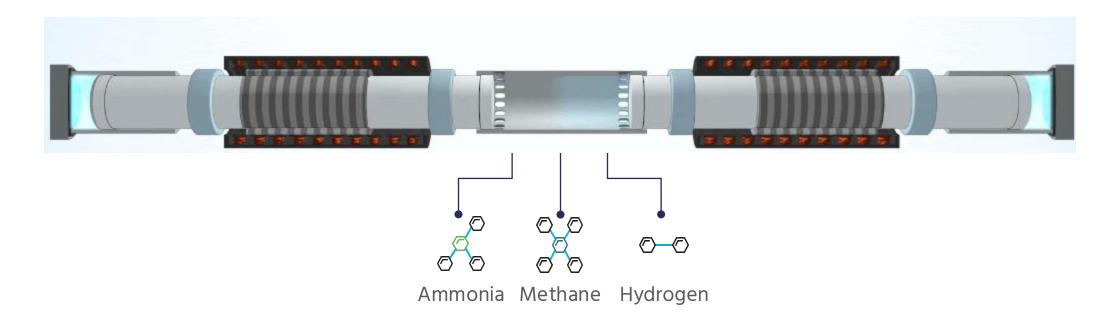
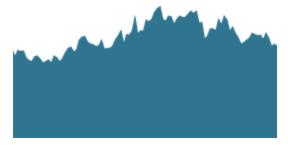
DOCKETED	
Docket Number:	25-IEPR-04
Project Title:	Hydrogen
TN #:	265036
Document Title:	Presentation - Affordable, Reliable, Dispatchable and Low Carbon Power
Description:	3C. Kent Leacock, Mainspring Energy
Filer:	Raquel Kravitz
Organization:	Mainspring Energy
Submitter Role:	Public
Submission Date:	7/28/2025 2:11:50 PM
Docketed Date:	7/28/2025



Fuel and operational flexibility unlocks evolving use-cases





Fully dispatchable with black start and island capability



Peak shaving without duration limitations



100% facility backup during outages









Case study Napa Sanitation District



Providing renewable power and resilience during grid shutdowns or outages for wastewater collection and treatment



Problem

Desire to reduce costs and increase resilience for an essential public service to the local community while increasing utilization of the anaerobic digester



Solution

Linear generator efficiently converts biogas from anaerobic digester into clean power and provides resilience during grid outages



Impact

Higher reliability, lower costs and increased biogas production by accepting more deliveries of waste fats, oils and grease as fuel



Case study: EV microgrid

Clean, onsite EV charging infrastructure for a global leader in logistics real estate



Problem

Utility could not meet 10 MW capacity need for EV charging infrastructure at shipping port



Pre-interconnection solution

Microgrid with 3 MW of linear generators and 6 MW / 18 MWh of battery storage



Post-interconnection optionality

Prime power Peak-hour shaving Clean resilience



Impact

Reduced time to power from 36+ months to 12 months





Case study 36 MW, "Just-in-Time" capacity for Co-op



Clean, cost effective power generation for a cooperative utility to keep up with increasing data center demand.



Project overview

36 MW of linear generators in Colorado's front range providing local peaking power to alleviate local grid constraints associated with new high-load factor load growth (data centers). To be installed in the second half of 2026.



Customer requirements

Low NOx that meet non-attainment requirements close to the DC load and the ability to run on hydrogen.

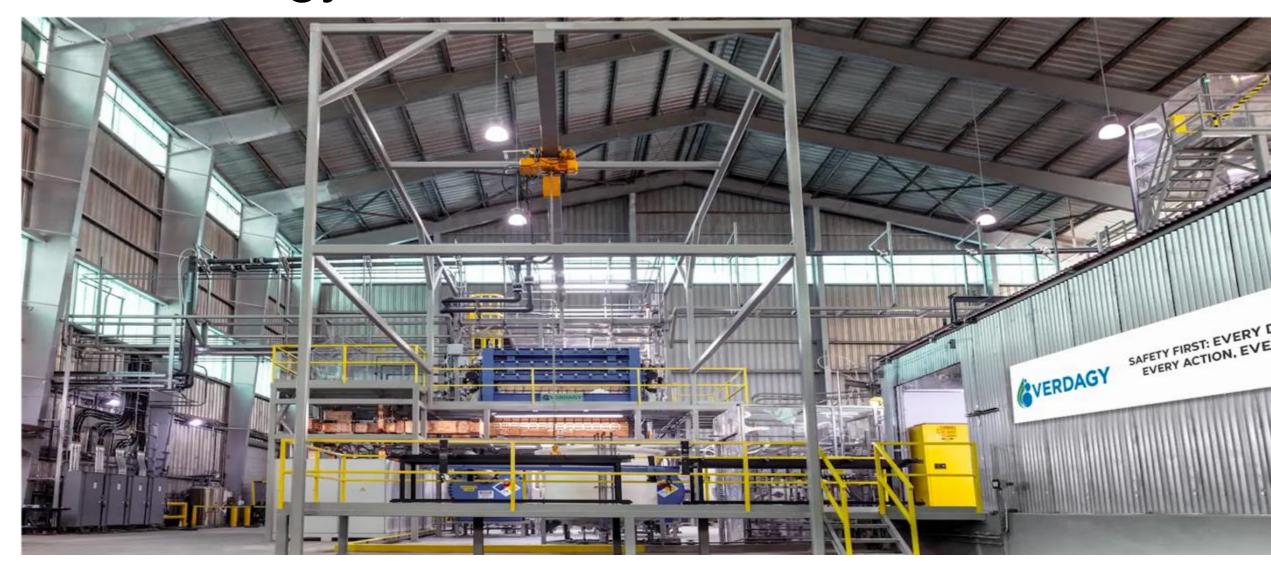


Impact

Allows customer to quickly to alleviate T/D/G constraints to allow for new load growth.



Verdagy to Supply Hydrogen to Mainspring Energy to Power Linear Generators



Mainspring



Thank you