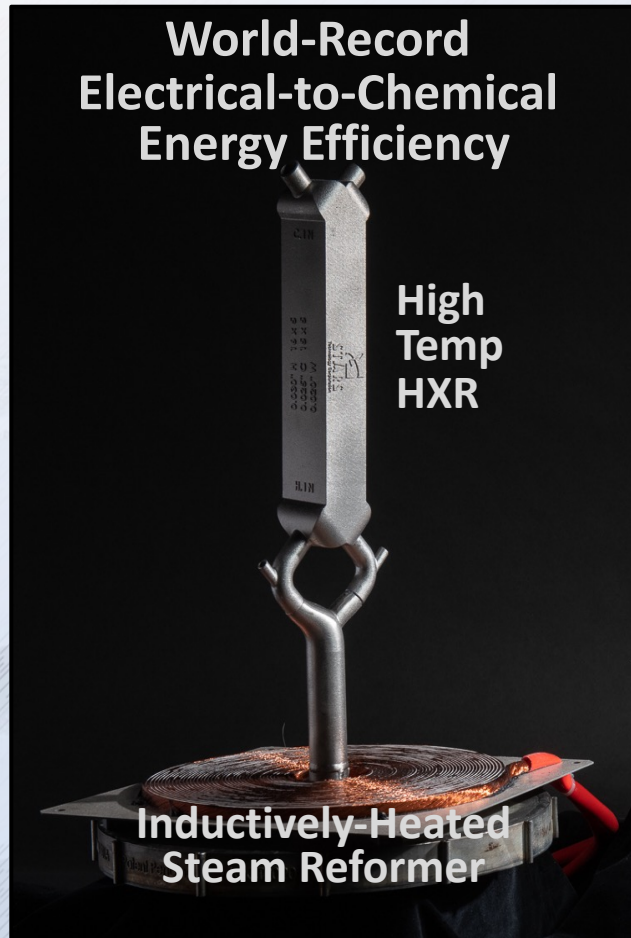
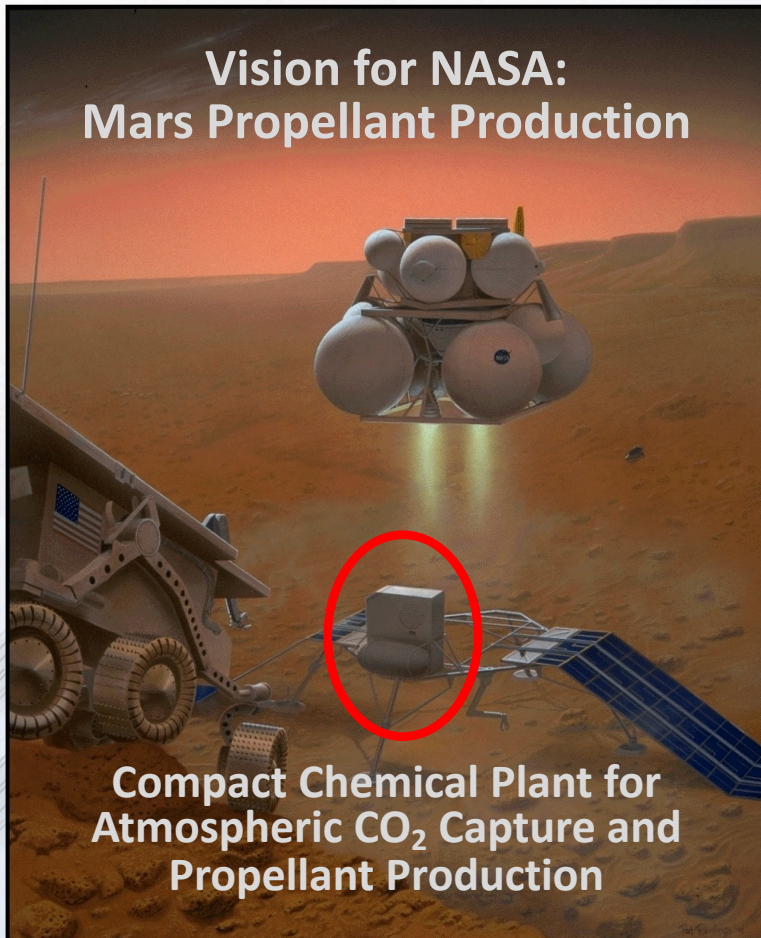




STARS
Technology Corporation

Introducing Clean Hydrogen from the Gas Grid

From Biogas, Water and Electricity



Ultra-Small Physical Footprint

- 100X Process Intensity
- Can be placed at points-of-use

Strongly Carbon-Negative

- No combustion
- Using Renewable Natural Gas

Modest Elect Consumption

- ¼ that of Water-Electrolysis

Low-Cost through Economies of Hardware Mass Production

- 3-D Printed Components
- Assembly Lines

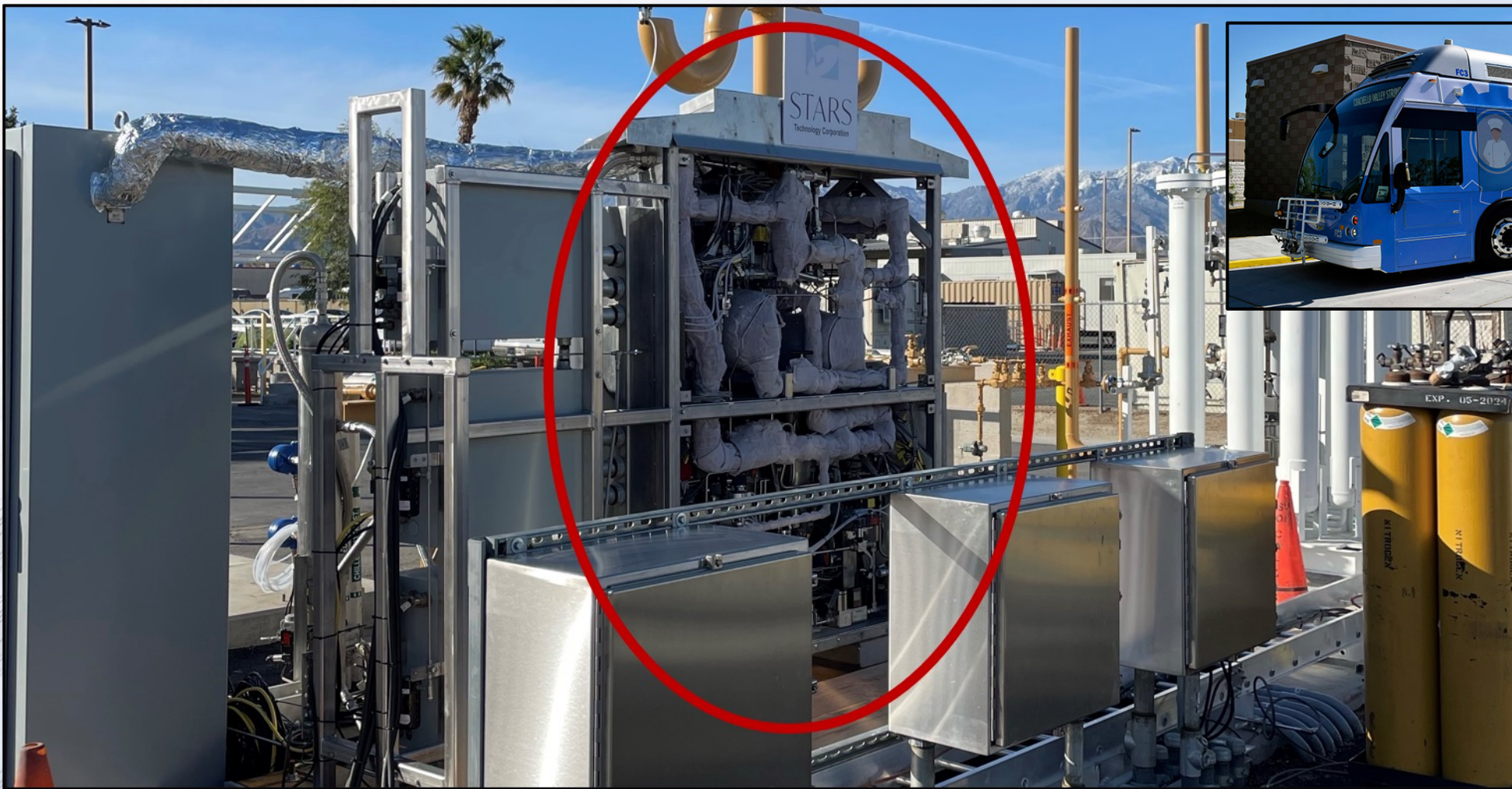
Robert S Wegeng, STARS' President & CTO



STARS
Technology Corporation

H₂ SilverStars Pilot Plant Project:

Carbon-Negative H₂ at SunLine Transit Agency, 2023-2024



“the potential to provide clean hydrogen at any location adjacent to a natural gas pipeline”

-- SoCalGas press release

Clean Hydrogen from Renewable Natural Gas / Biogas

June 12, 2024

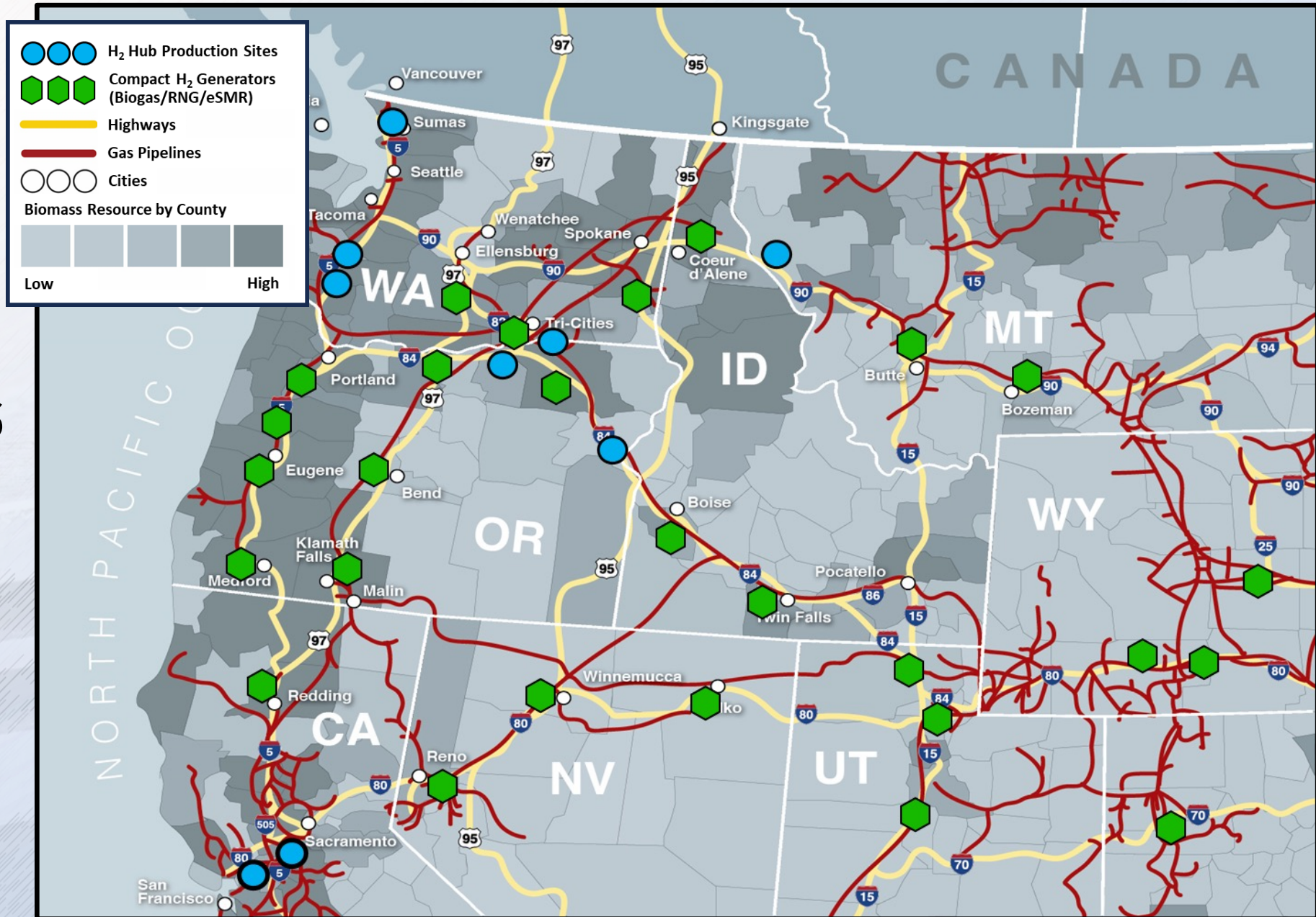


STARS
Technology Corporation

Distributed Placement of Clean H₂ Transformers

Filling Out and Connecting Regional Hydrogen Hubs

Starting in 2025



Now Working to Identify Initial Commercial Sites



Backup Slides



Advantages of STARS' H₂:

Low-Carbon Emissions; Ultra-Small Size; Great Economics

Ultra-Small Physical Footprint

STARS' H₂ Generators can be placed at points-of-use and are disruptive for *distributed applications*

Strongly Carbon-Negative

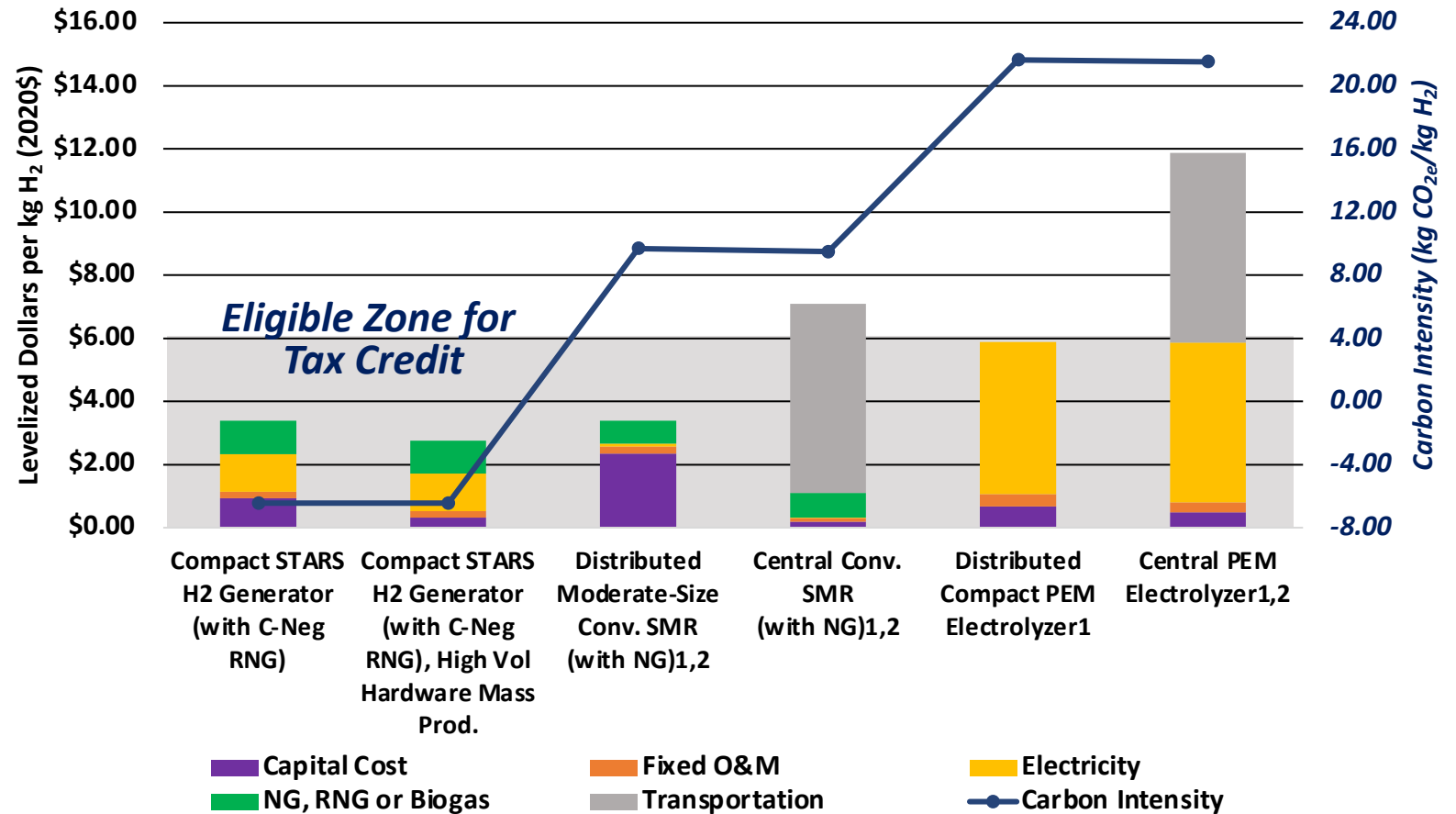
Preliminarily estimated at less than *-5 kg CO_{2e}/kg H₂*

Low-Cost Hydrogen Production*

Levelized H₂ Production Cost is estimated at about \$3/kg based on economies of hardware mass production, with zero delivery cost by placing at or adjacent to points-of-use

* Does not include the USA's Clean H₂ Production Tax Credit

Selected Cases for Production and Delivery of Hydrogen



¹ Clean H₂ Production Tax Credit available with RNG and/or Clean Electricity

² Not Suitable for many distributed applications (footprint too large)



STARS' Team – Persistent Leaders

Formerly PNNL, NASA and Energy Industry

STARS
Technology Corporation

Principals



Bob Wegeng, Founder & President

- Co-Originator of Microchannel Process Tech
- Former PNNL, NASA & Industry
- >180 patents (US and Foreign)
- 3 R&D 100 Awards



Dennis Walters, Chief of Staff

- Co-Founder, Electrical Engineer
- Former PNNL, Electric Power Industry



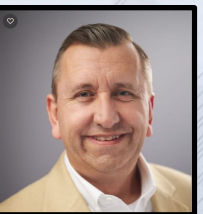
Richard Zheng, Chief Test Engineer

- Chemical Engineer, PhD
- Former Developer of Microchannel Process Technology at PNNL



Bruce Harrer, Commercialization & IP Manager

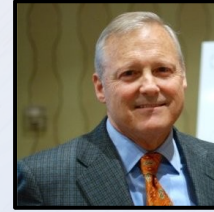
- Co-Founder, Comm Manager, MBA
- Former PNNL



Kevin Sullivan, Chief Financial Officer

- Finance/Accounting, MBA
- Former PNNL

Advisors



Ron Kent, Advisor

- Former Advanced Technologies Development Manager, SoCalGas



William Readdy, Advisor

- Veteran pilot astronaut with three Shuttle flights
- Former Associate Administrator of the Office of Space Flight, NASA Headquarters, with oversight for the Marshall, Kennedy, Stennis and Johnson Space Centers

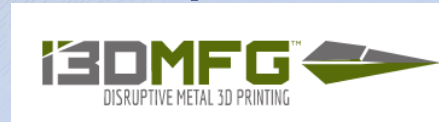
Demonstration Participants



Pacific Northwest
NATIONAL LABORATORY



Value Chain Participants



June 12, 2024



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STARS Hydrogen Pilot Plant at SunLine Transit

Hydrogen Generator Process Skid Graphic

