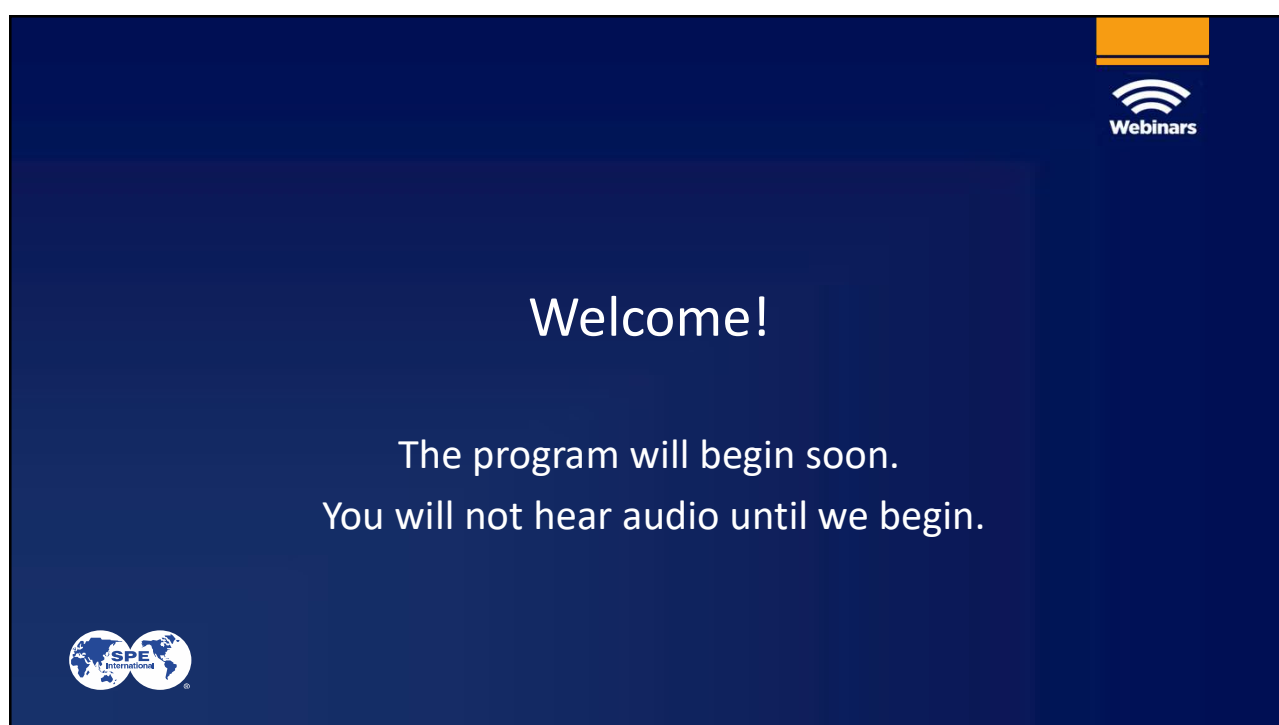




A dark blue rectangular slide with a lighter blue rectangular area in the center. In the top right corner, there is an orange square above a white Wi-Fi symbol and the word "Webinars". In the bottom left corner, there is a logo for "SPE International" featuring two globes. The central text is white and reads: "Welcome!" followed by "The program will begin soon." and "You will not hear audio until we begin."

Webinars

Welcome!

The program will begin soon.
You will not hear audio until we begin.

SPE International



Sustainable Leadership During the Energy Transition

Energy Services is the Solution
Provider

Molly Determan
President
Energy Workforce & Technology Council



Leading the Way: Embracing a
Paradigm of Sustainability in the
Energy Transition

Ian Nieboer
MD, Intelligence
Enverus





AGENDA





-  THE GLOBAL PICTURE
-  REGULATORY BARRIERS
-  ENERGY INNOVATION
-  ENERGY EXPANSION
-  WORKFORCE
-  LEADERSHIP

THE LANDSCAPE

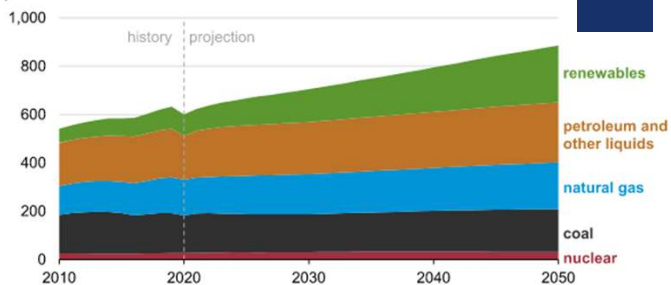


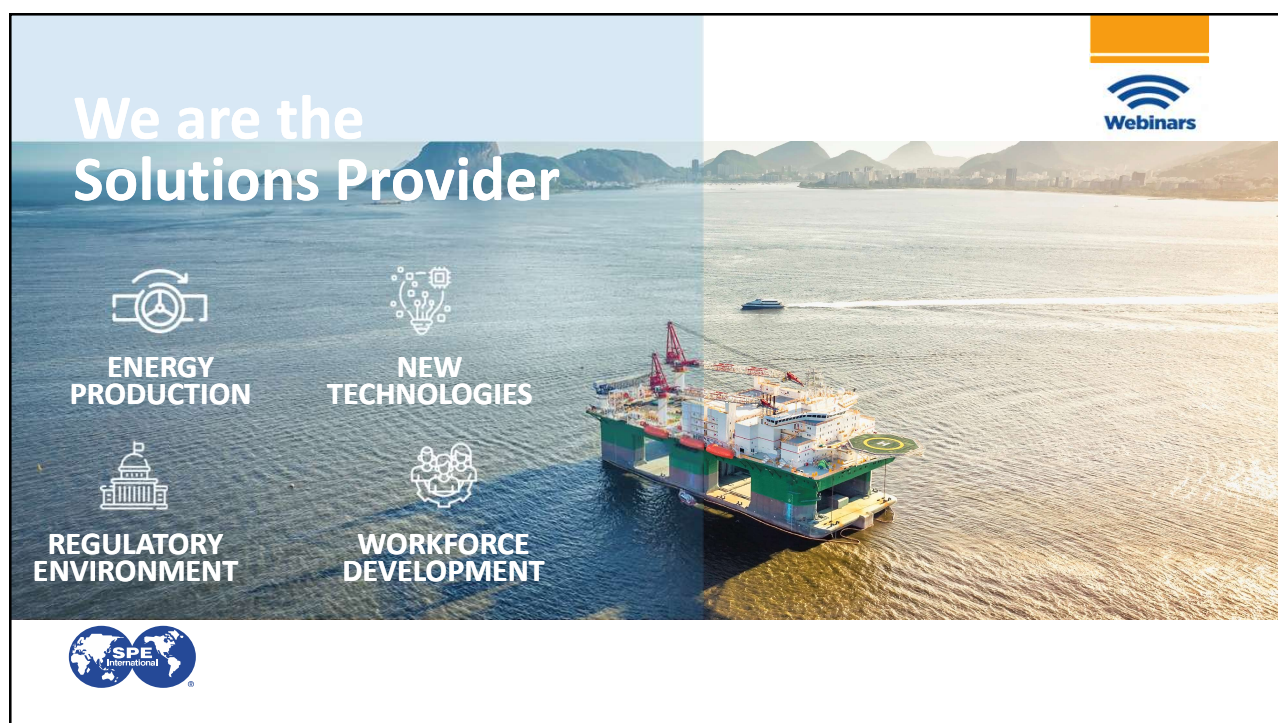
Global Demand

There is an ever-growing global demand for energy, and oil and gas must continue to be a part of the equation.



Global primary energy consumption by energy source (2010–2050)
quadrillion British thermal units





**We are the
Solutions Provider**


**ENERGY
PRODUCTION**


**NEW
TECHNOLOGIES**


**REGULATORY
ENVIRONMENT**


**WORKFORCE
DEVELOPMENT**





REDUCING REGULATORY BARRIERS

Educate Policy Makers and the Public



NECESSITY OF OIL & GAS

- Energy demand to increase 25% over next 20 years
- Renewables supply chain relies on oil and gas for transportation, shipping, electricity, materials and manufacturing
- Oil and gas enables wealthy nations and companies to invest in alternative energy sources



PRACTICALITY

- Existing infrastructure can be adapted
- Since 2005, the switch from coal to natural gas for electricity generation has been the number one driver of decreasing carbon in the U.S., saving CO2 emissions by more than 2.8 billion metric tons

NATIONAL SECURITY

- U.S. would be dependent on other nations for energy needs
- A significant portion of the world's essential minerals for batteries, turbines, and solar panels is concentrated in a few countries outside the U.S.

Energy Innovation







Energy Services **is Leading** Energy Innovation

Hydrocarbons - Geothermal - Hydrogen - Offshore Wind - LNG



Entire ecosystem working together to produce the cleanest, most reliable and affordable energy.



Decarbonization must be smart and realistic, with a focus on improving lives. Solutions also must be practical and scale to meet the needs.



Hydrocarbons will be part of the fuel mix for the foreseeable future.



Energy services will lead the energy expansion to decarbonization because the sector knows how to **scale projects** and **deliver technology** to meet growing demand.

ENERGY INNOVATION



Expansion of Resources Not an Energy Transition Away From Oil and Gas

- To meet global challenges, we must not transition away from oil and gas, but adopt the expansion of the entire energy ecosystem, including oil and gas
- Working together to reduce emissions while meeting increased global demand
- Multiple iterations based on unique aspects of countries and regions

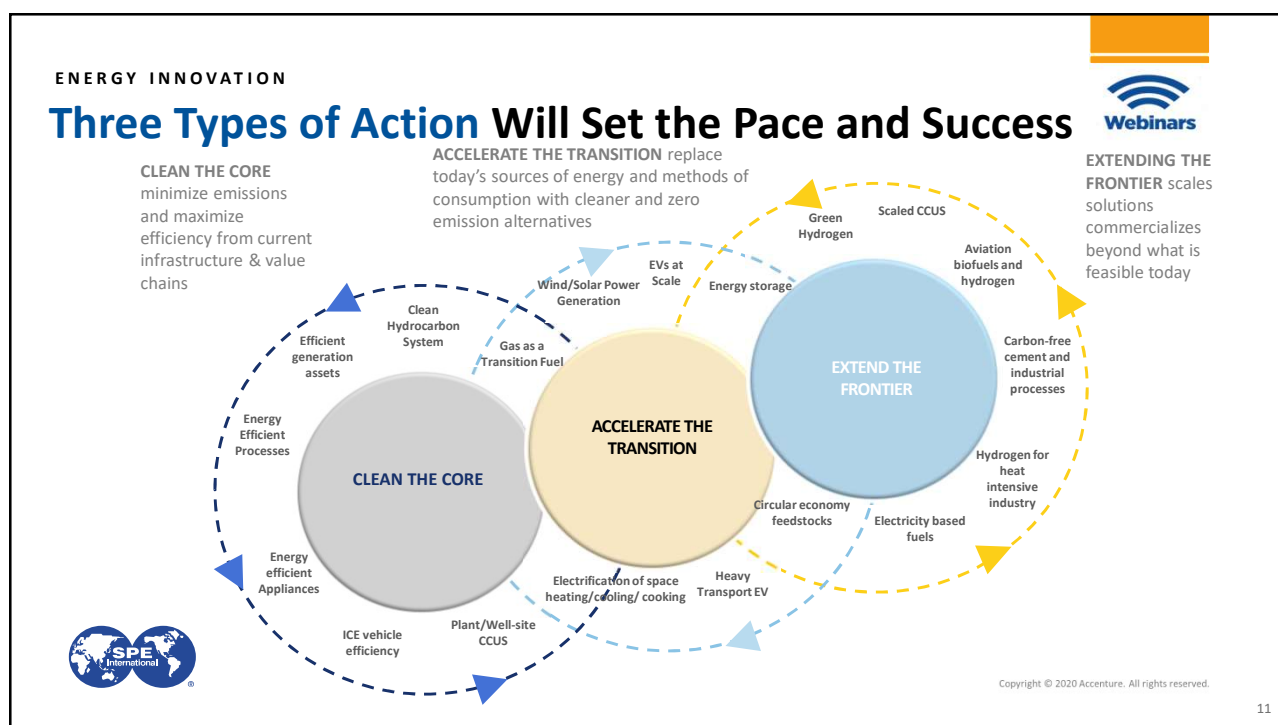


TRENDS

- Digitalization
- Remote Technology
- Automation

KEY DRIVER: MARKETS

- Reduce Climate Impact
- Improve Environmental Performance
- Economic & National Security



ENERGY INNOVATION

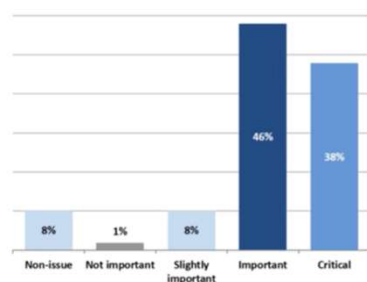


The Digital Road Ahead

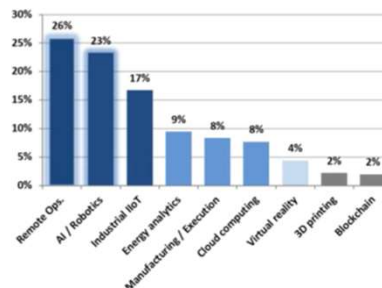
- Energy service providers have long played a **critical role** in the technical advancement of the upstream oil and gas industry
- Digitalization, remote technology, automation — all working to **accelerate energy expansion**
- Connectivity that extends **beyond the equipment**
- Closer partnerships between operators, service companies, and technology providers **reduces operating costs and environmental impact, while increasing well production**



What role do you believe technology and digitalization (AI, Automation) will play within the oil patch?



Where should OFS companies invest R&D in the post-COVID world?



ENERGY INNOVATION

Innovative Technologies

Energy services organizations invest in research and development in an array of energy sources and technologies.

Leveraging their long history of finding and deploying technological solutions on a global scale, these companies are making energy cleaner, safer and more cost-effective than ever before.



Workforce & Culture



CULTURE MATTERS MORE THAN EVER

Inclusive cultures are imperative
for the energy technology and
services sector as it reinvents
itself for a low-carbon future



BUILDING THE FUTURE

Talent is a Critical Issue

- 650,000+ jobs and growing in the energy services sector
- Tight labor market
- Challenges in recruitment and retaining talent

UPSKILLING

RESKILLING

RETAINING



Webinars





Sustainable Leadership

ENERGY INNOVATION

Sustainable Leadership: Disruptive Innovation



Leaders must take risks and think creatively during the energy transition



Embrace disruption and creative approaches to meeting sustainability goals



Courage to spearhead and introduce new products and technologies



Look at customer needs to offer better solutions



Collaborate across industry boundaries and company silos



Prioritize innovation that encourages sustainable practices and technologies



WORKFORCE

Sustainable Leadership: Stakeholder Engagement



Leaders should align their strategies with the values and concerns of their stakeholders, demonstrating a shared commitment to sustainability:

- Engage stakeholders early
- Create dialogue and discussion surrounding change management
- Demonstrate empathy, understanding and authenticity



Sustainable Leadership Through Long Term Activation



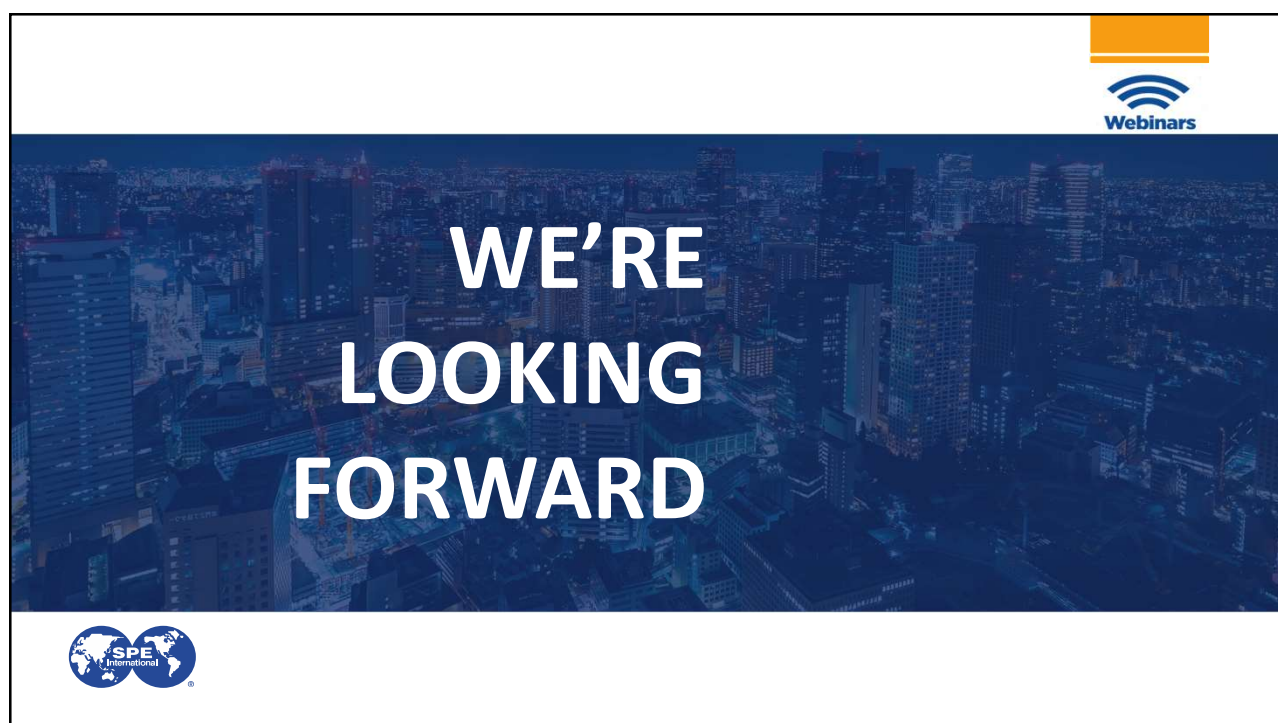
**Imbed sustainability
into the process**

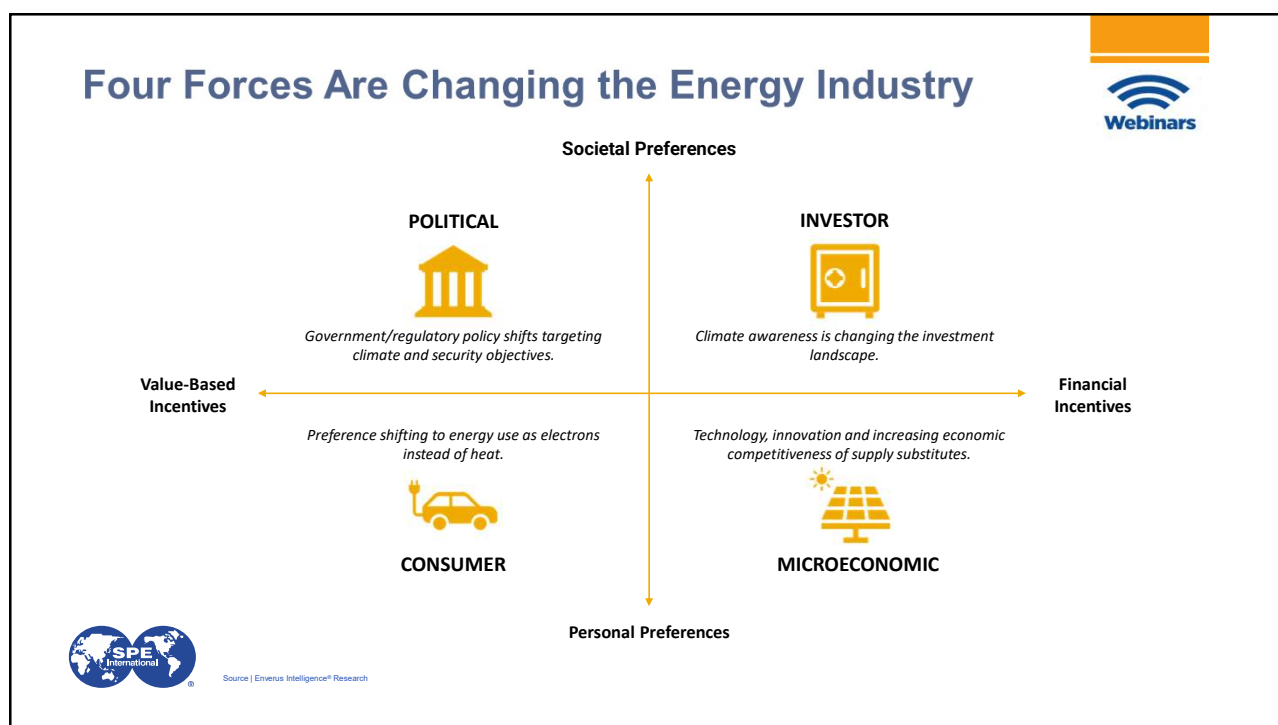


**Set goals and interim
achievable targets**



**Generate buy-in and
empower your team**

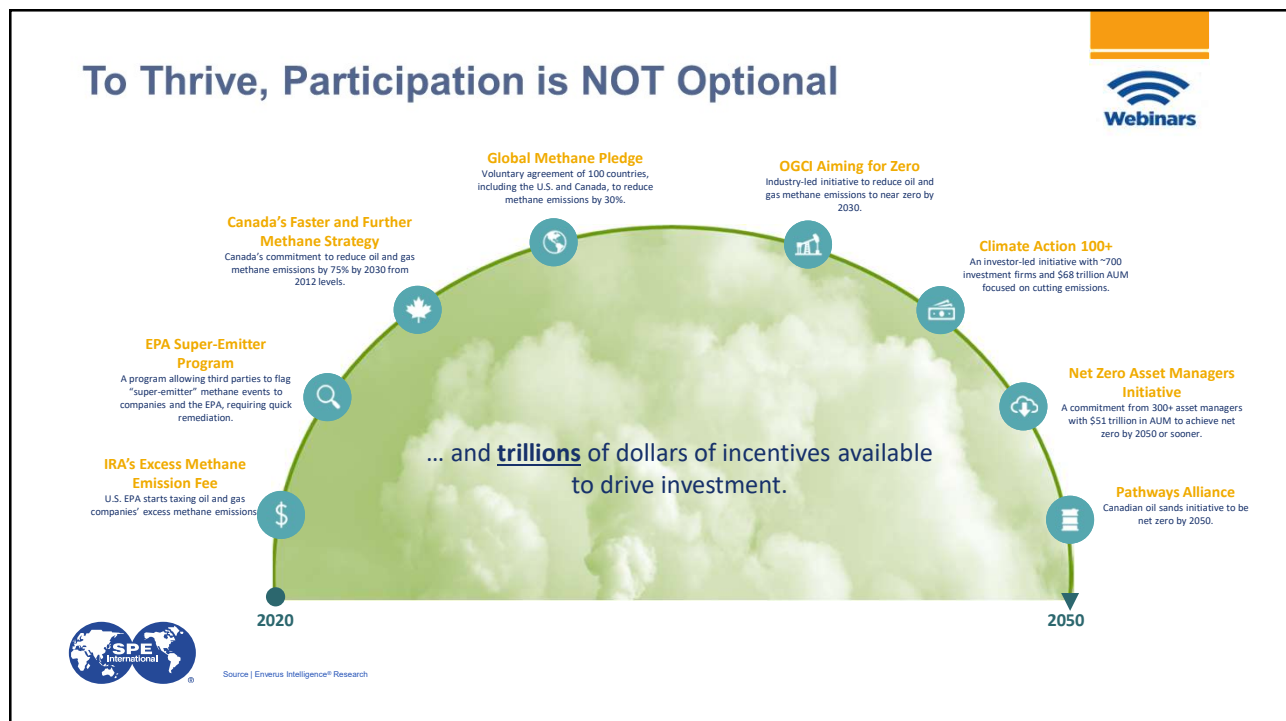






**What does success in the “Energy Transition” look like
for **YOU**?**



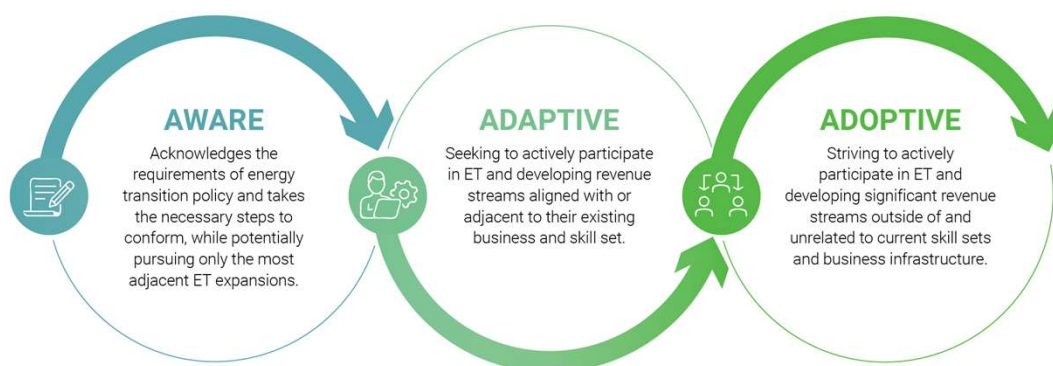


Strategies Exist on a Continuum

How businesses participate depends on Context, Capabilities and Climate Conviction



CK0



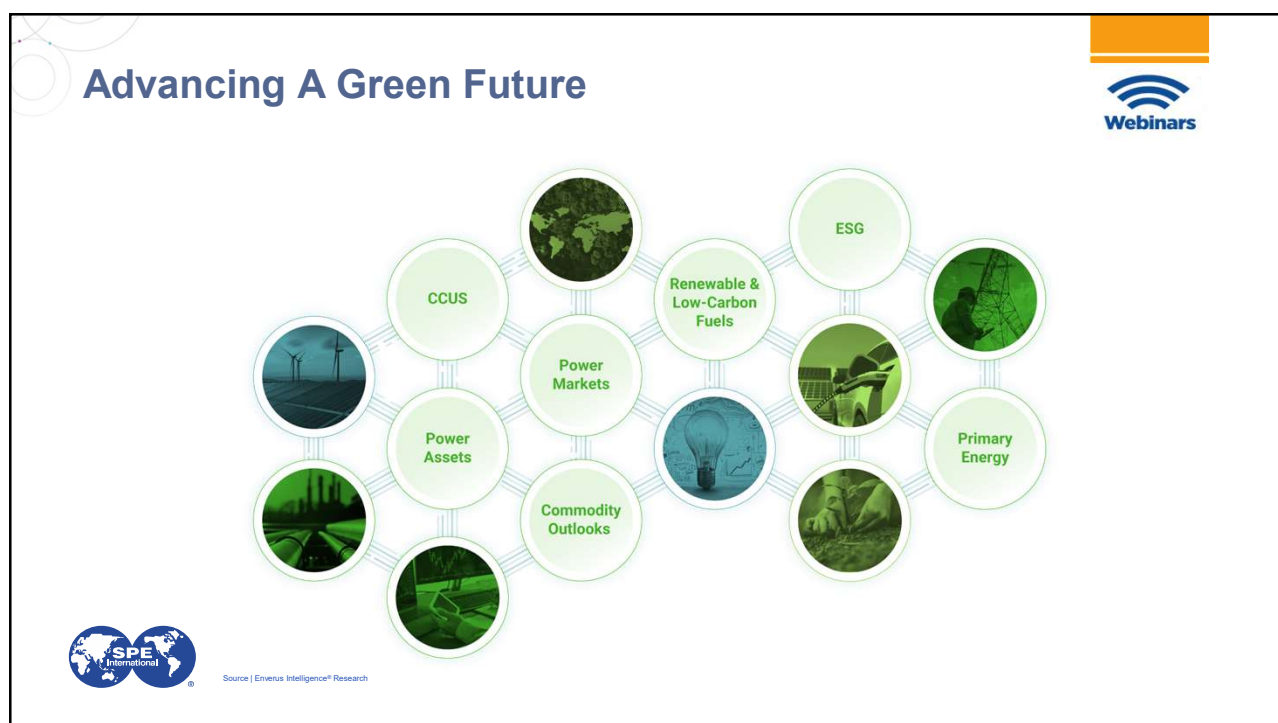
Source | Enverus Intelligence® Research

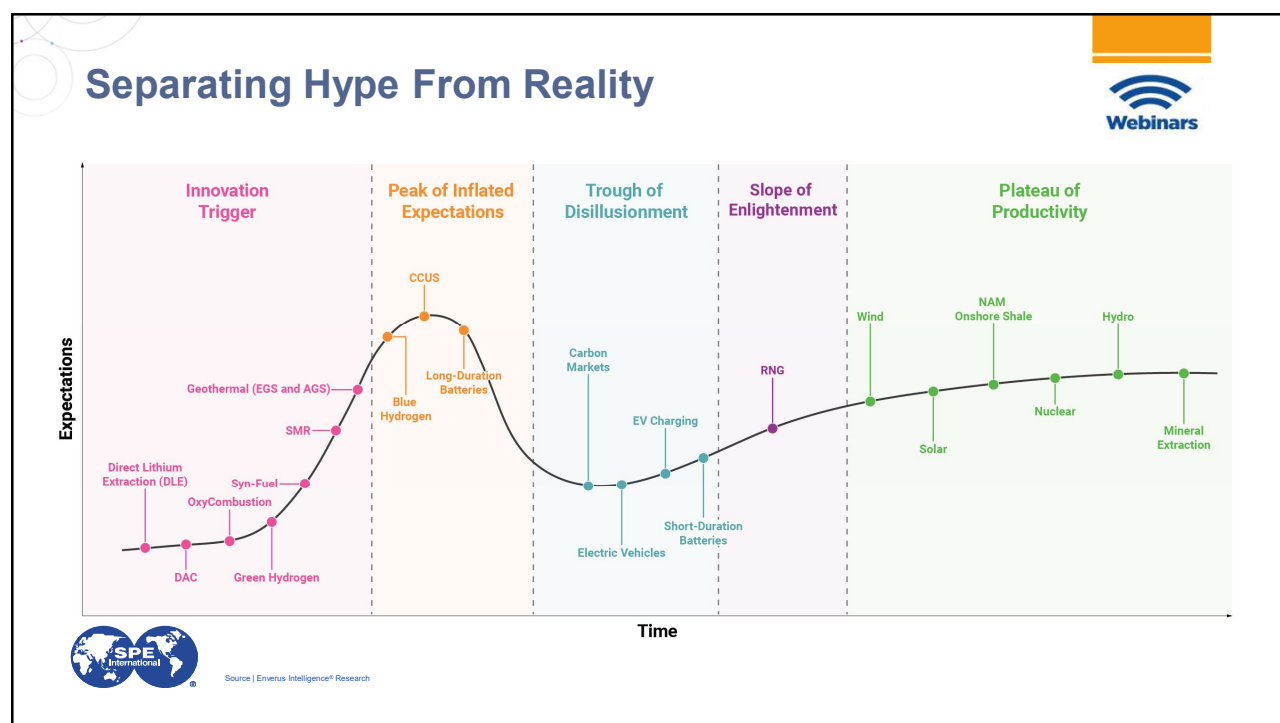
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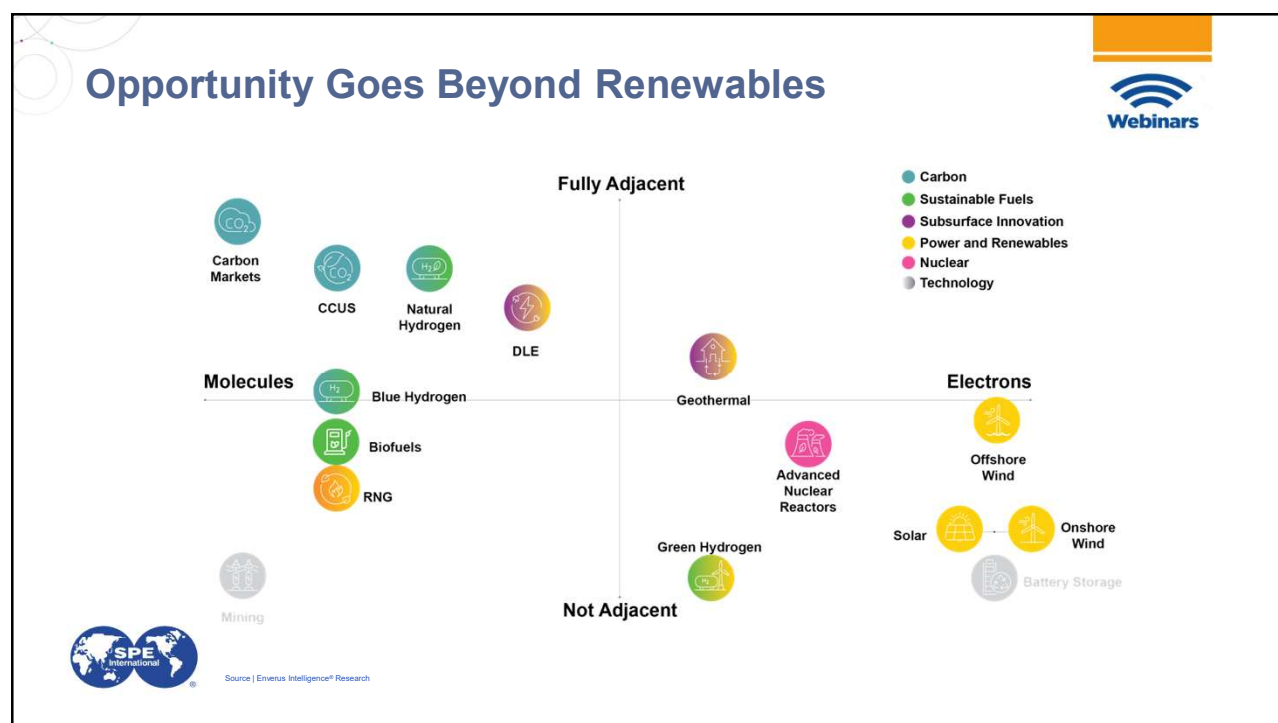
CKO

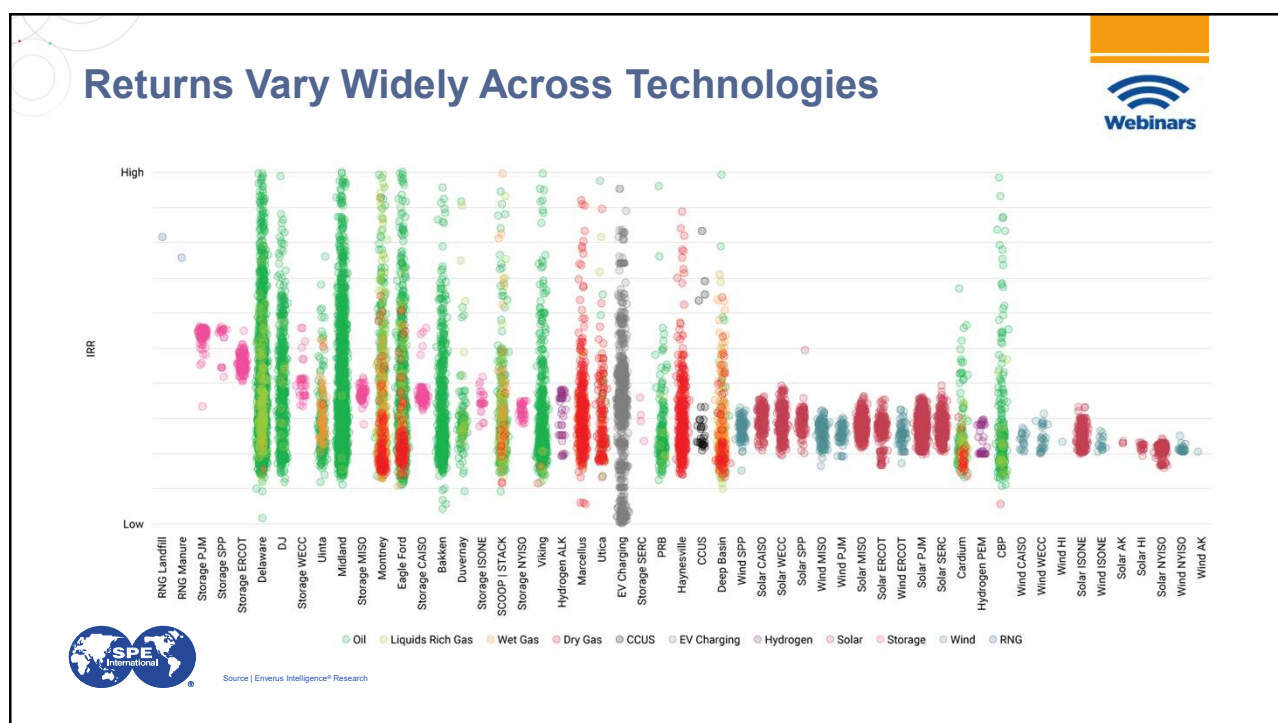
Do we want "climate" before conviction here? to me it feels like the two arent necessarily tied. Example - you can have conviction wrt booming lithium demand completely independent of climate beliefs

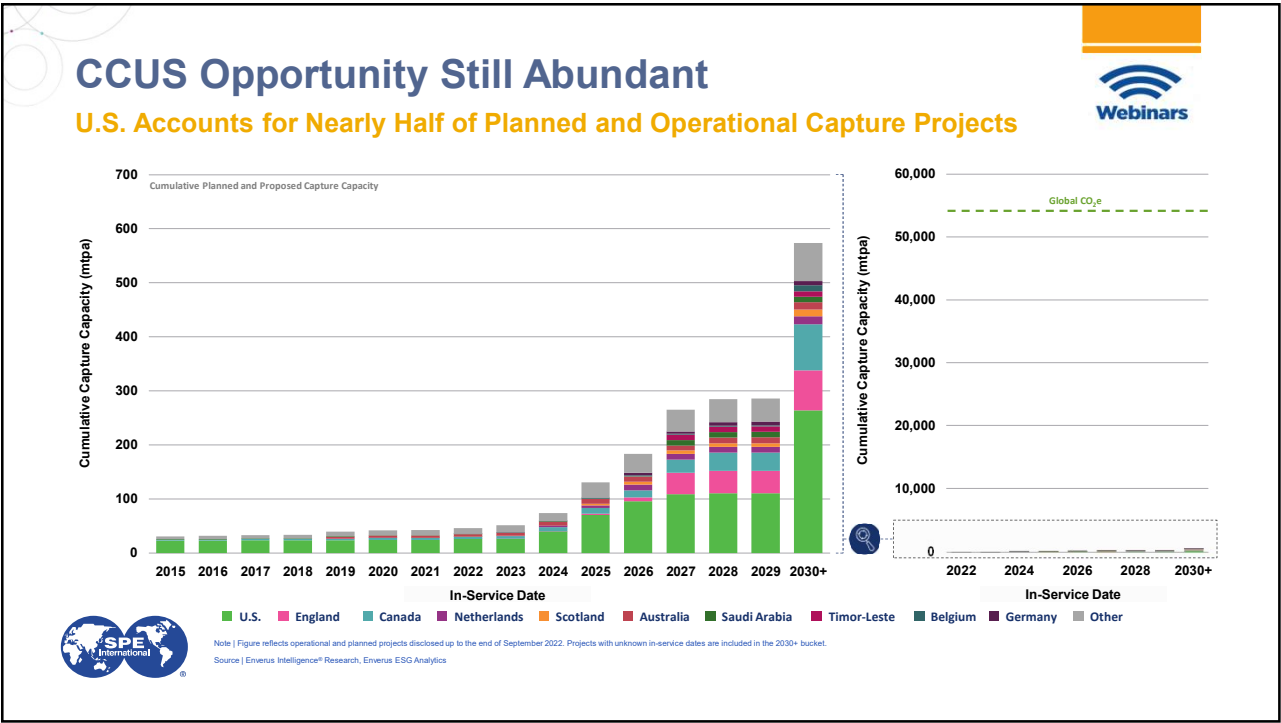
Carson Kearl, 2023-08-18T18:00:21.191

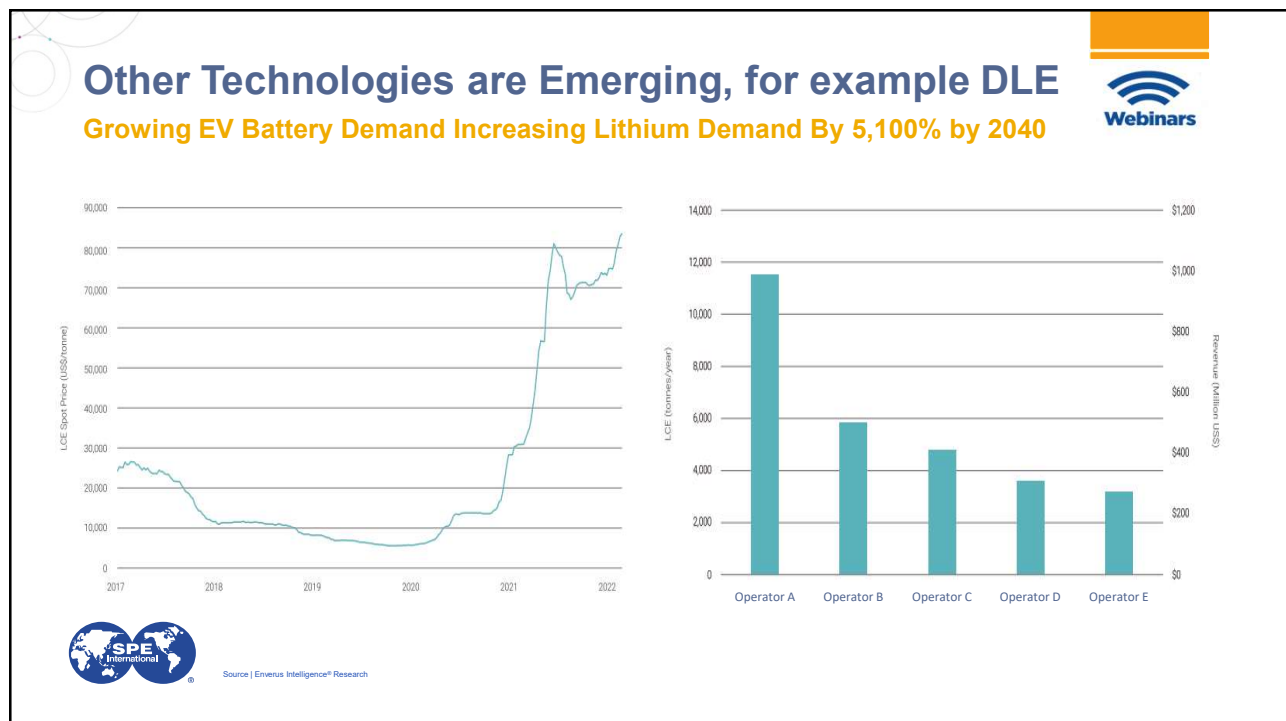


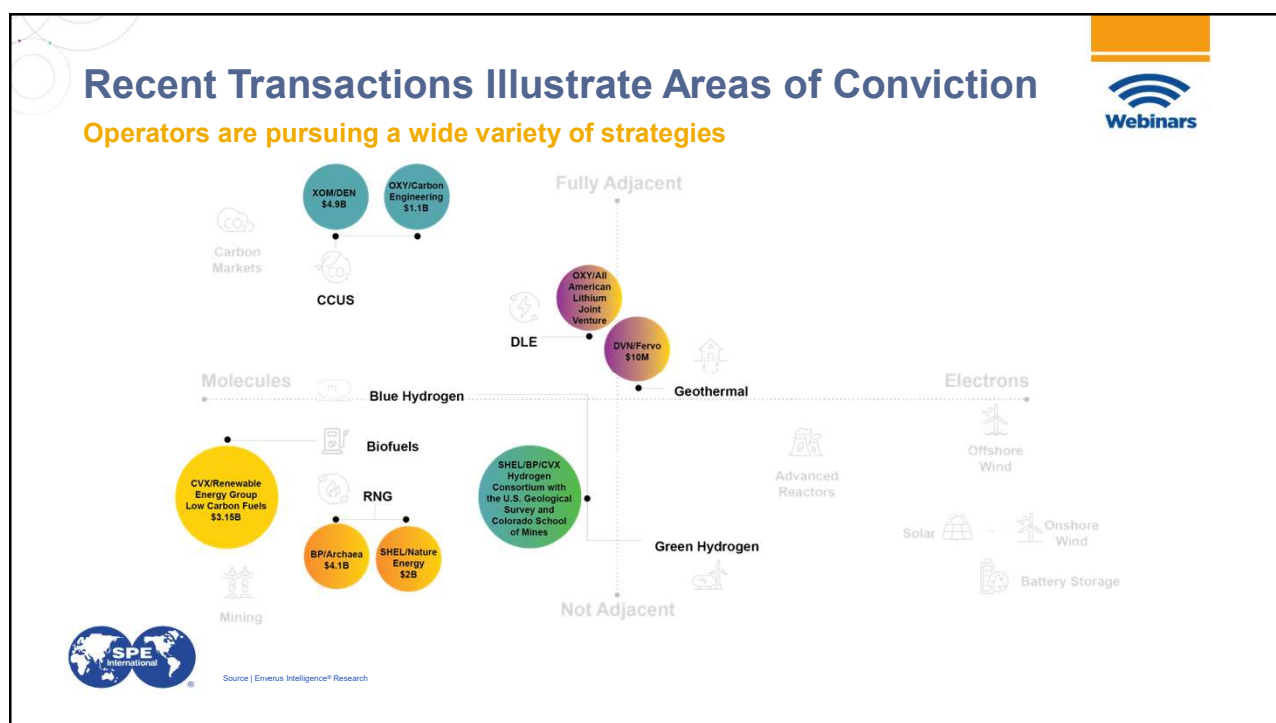












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