

# **Energy Services is the Solution Provider**

Meet Alaska 2023 - The Alliance

PRESENTED BY Leslie Beyer, CEO





WHO WE ARE	03
NAVIGATING THE CHALLENGE	05
SOLUTIONS PROVIDER	08
ENERGY EXPANSION	09
OIL & GAS IS NOT THE ENEMY	14
REDUCING REGULATORY BARRIERS	17
WORKFORCE & TALENT IS CRITICAL	19



# ABOUT ENERGY WORKFORCE & TECHNOLOGY COUNCIL



Energy Workforce & Technology Council is the national trade association for the global energy technology and services sector, representing more than 650,000 U.S. jobs in the technology driven energy value chain. Energy Workforce works to advance member policy priorities and empower the energy workforce of the future.

Our Members are critical to providing the energy necessary to meet growing global demand while also investing in technological innovations to support a lower carbon future.



#### **FOUNDED IN 1933**

PESA was at the vanguard of the energy services and equipment sector with workforce development opportunities and certification programs.



#### **FOUNDED IN 1956**

AESC operated through a network of national committees and local chapters becoming a leading voice in safety, technology, advocacy and training.



#### **ENERGY WORKFORCE**

Unites the OFS sector to form the largest energy technology and services association. Combining into one organization broadens our reach by increasing geographic representation.

#### **ENERGY WORKFORCE LEADERSHIP**

#### **Connecting Leaders in the Oilfield**

#### **Board and Advisory Board Companies**





























NEXTIER



























































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THE LANDSCAPE

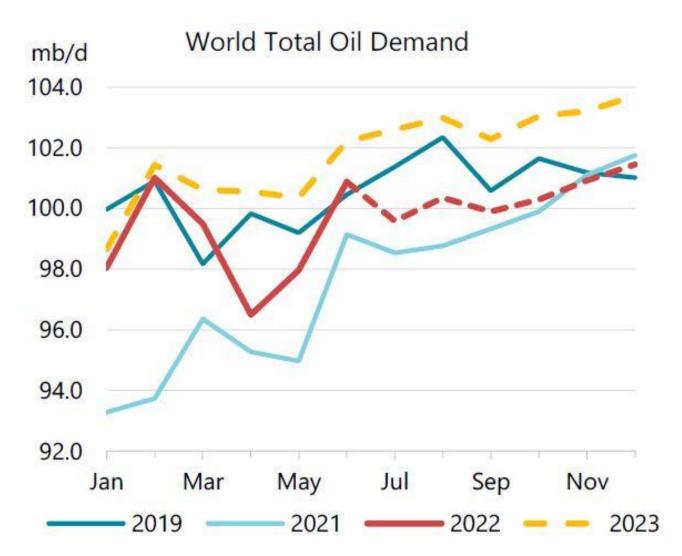
# NAVIGATING THE CHALLENGE

We are coming out of some of the most challenging times our nation and our world has faced.



## **Global Demand**

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



SOURCES: IEA, REUTERS

## **Energy Security**

U.S. domestic energy production provides affordable, accessible and reliable energy to our nation and to populations around the world.



#### **NATIONAL SECURITY**

- Decreasing U.S. oil and gas production strengthens foreign producers
- Enables China and Russia dominance, increases dependency on Middle East and rouge nations
- U.S. has extraordinary oil and gas resources, produced in a cleaner, safer manner than foreign counterparts
- China controls majority of critical minerals processing essential for batteries and solar panels



#### **NECESSITY OF OIL & GAS**

Oil and gas enables wealthy nations and companies to invest in alternative energy sources



#### **INFRASTRUCTURE**

- Existing infrastructure can be adapted for future energy sources
- Domestic infrastructure investment essential to meet global demand

## **Solutions Provider**



**ENERGY PRODUCTION** 



NEW TECHNOLOGIES



REGULATORY ENVIRONMENT



WORKFORCE DEVELOPMENT



**ENERGY EXPANSION** 

## Energy Transition is Not an Either/Or Proposition. It is an Expansion of Energy Resources.

- Energy transition is not a transition away from oil and gas, it is an 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 Services Will Lead the Expansion**

Renewables - Hydrocarbons - Hydrogen - Nuclear - Biofuels



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



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

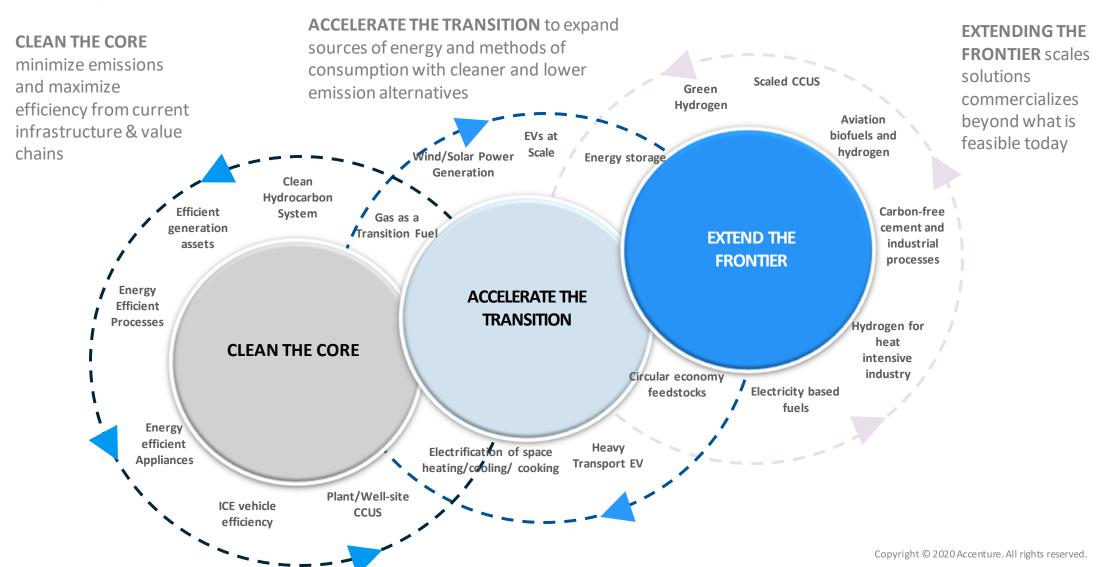


Hydrocarbons will be part of the fuel mix for the foreseeable future.



Energy services will lead the transition to lowering emissions because the sector knows how to scale projects and deliver technology to meet growing demand.

### Three Types of Action Will Set the Pace and Success

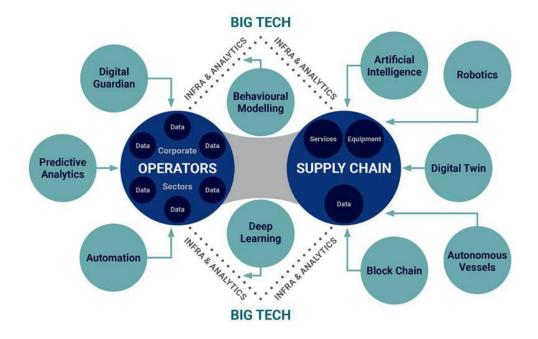


# **Digital Technologies**

Energy Workforce Members are making clean energy independence possible by investing 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 costeffective than ever before.

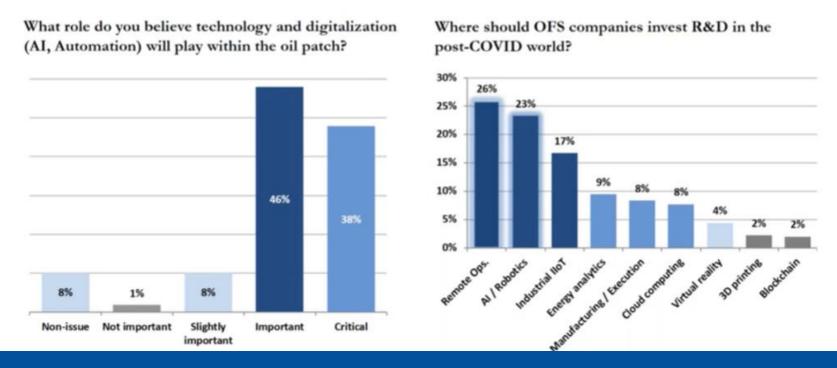
- Artificial Intelligence
- Automation
- Cloud Computing
- Digital Twin
- Digitalized Drilling Equipment
- Fugitive Emission Reduction

- IoT
- Machine Learning
- Predictive Analytics
- Remote Monitoring & Analytics
- Robotics



## 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 lowering emissions and expand energy resources.
- Closer partnerships between operators, service companies, and technology provider reduces operating costs and environmental impact, while increasing well production.



# Oil & Gas Is Not the Enemy

#### **Energy Poverty**



#### 2 billion

people worldwide experience energy poverty

- "Energy doesn't end poverty, but you can't end poverty without energy."
  - Dr. Scott Tinker

#### **Empowering Women**

Reduces exposure to non-clean cooking fuels and allows girls to attend school more freely

#### **Better Health Outcomes**

Reliable access to energy increases life expectancy

#### **Smart Decarbonization**

80% of the energy consumed in the world is still generated from fossil fuels





ALL OF THE ABOVE APPROACH.

OIL, GAS, RENEWABLES, NUCLEAR AND COAL.

INVEST IN CCUS AND GEOTHERMAL.

**EXPAND LITHIUM SUPPLY CHAIN.** 

#### WE ARE POWERING THE FUTURE.



**REDUCING REGULATORY BARRIERS** 

# Policy and Regulations Impact Energy Expansion







FULLY OPEN LEASING ON FEDERAL LANDS & WATERS





# **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

- Shutting down U.S. oil and gas production strengthens China and Russia
  - U.S. would be dependent on other nations for energy needs
- China controls majority of earth's minerals essential for batteries, turbines and solar panels



**BUILDING THE FUTURE** 

# Workforce & Talent

- Talent is a critical issue
- 650,000+ jobs and growing in the sector, but still below pre-pandemic numbers
- Tight labor market
- Challenges in recruitment and retaining talent



**INVESTMENT** 



**UPSKILLING** 



**RESKILLING** 



#### **Attract, Retain and Prepare**



# Inclusion, Diversity and Racial Equality

- Gender Diversity Study
- Energy Workforce Diversity Toolkit
- Racial Equality Task Force
- Working Groups/Action Plan



# Workforce Development

- Certified Executive Program
- Executive Leadership
- Inclusive Leader
- ESG Certification Program
- Field Operations Leadership
- Finance for Non-Financial Professionals
- Operations Leadership



# Industry Reputation

- IPAA/Energy Workforce
   Energy Education Center
- NSBE Summer SEEK
   Program
- Rice University Fellowship
- State Department Houston Energy Course



# We're Looking Forward

The future for oil and gas is optimistic with commercial opportunities in the energy expansion



Form alliances with key stakeholders



The industry must earn respect through communications, advocacy and collaboration

Innovating, training and advocating on behalf of the sector

- Protect U.S. national and economic security
- Reduce emissions at home and abroad
- Energy access and availability to lift the world from energy and economic poverty
- Regulatory landscape should encourage domestic energy
- Workforce development

