

# Jupiter Blue Energy Corporation

Jupiter Blue Energy™ CCS Technology

Carbon capture and storage (CCS) start-up with the experience and IP to generate 45Q credits using patented, TRL 7 oxy-combustion carbon capture technology in the short term. Long-term, TAM of \$4T. Seeking \$70 million for a 20% stake.

# Who We Are

- Innovative carbon capture and storage (CCS) start-up with patented IP, TRL 7 oxy-combustion + CCS technology
- Technology used for 25+ years in secondary aluminum production
- 10 years of intensive, self-funded R&D to apply our Jupiter Blue Energy Technology™ to fossil-fuel-fired power plants
- Focused on short-term strategy of retrofitting power plants and industrial facilities to generate 45Q tax credits
- We are seeking \$70 million for a ground-floor position in a \$4 trillion / year market

Experienced, Innovative, Resourceful

# Humanity Faces its Greatest Problem

- CO<sub>2</sub> waste from industrial and power generation plants threaten the earth's carrying capacity.
- Structural issues make a quick energy transition impossible.
- Populations' comfort requires more and more energy.

**Wind farm in Germany is being dismantled to expand coal mine**



TexasMonthly

NEWS & POLITICS ARTS & ENTERTAINMENT BEING TEXAN FOOD & DRINK BBQ TRAVEL & OUTDOORS TRUE CRIME MAGAZINE

ENERGY

**The Great Texas Blackout Was Caused by a Failure to Ensure Supplies of Natural Gas**

State leaders have pointed fingers at everything from windmills to the bureaucrats at ERCOT. But the real issue is the electric grid's reliance on a lightly regulated natural gas production industry.

By Charles Blanchard March 3, 2021 51



**Scientists Warn Humanity in Denial of Looming 'Collapse of Civilization as We Know It'**

By EcoWatch | Jan 13, 2021 7:44AM EST

CLIMATE



The New York Times

***The U.S. Has Billions for Wind and Solar Projects. Good Luck Plugging Them In.***

An explosion in proposed clean energy ventures has overwhelmed the system for connecting new power sources to homes and businesses.

Maintaining our Civilization While Controlling CO<sub>2</sub> Emissions 3

# Jupiter's Solution Solves Current Conundrums

- Brownfield permitting is quick and easy
- NIMBY-ism isn't an issue
- Local grid faces no disruption – tie-ins unchanged
- Local communities happy to maintain facilities
- Cuts CO<sub>2</sub> emissions by 97% (and even Net-Negative CO<sub>2</sub> emissions when co-firing with biomass)



Conserve Resources, Retrofit Facilities, Control Emissions



# Enormous Capacity for Growth Long-Term

## Near-Term Target Markets



## Total Available Market

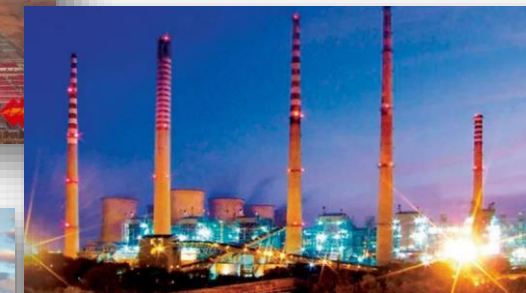


Retrofits for small coal-fired power generation plants and low-carbon industrial vanguard:  
**\$132 billion / year**

China



India



Germany

*et cetera*

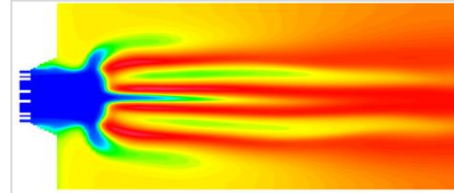
Retrofits and new-builds for fossil fuel power and industrial plants globally:  
**\$4 trillion / year (per XOM)**

# Control Emissions, Maintain / Improve Standards of Living

# Jupiter's Process is Proven



Jupiter Blue Energy™  
Technology Converts Dirty  
Fossil Fuels to Clean  
Steam + Power using  
Pure Oxygen



CFD modeling of Jupiter flame



Photos taken during our test campaign at GE Power's Hartford, CT R&D Center in 4Q2022

Jupiter Blue Energy™  
technology solution burns  
fossil fuels in pure oxygen.

Retrofits made while the  
plant is operational, minimal  
down-time required.

97% capture rate using  
proven equipment and  
processes

Biosphere, local economies,  
and grid stability preserved

## TRL 7, Strong Partners, 10 Years of R&D

# The Time is Now



Our civilization cannot wait for perfect solutions in 30 years.

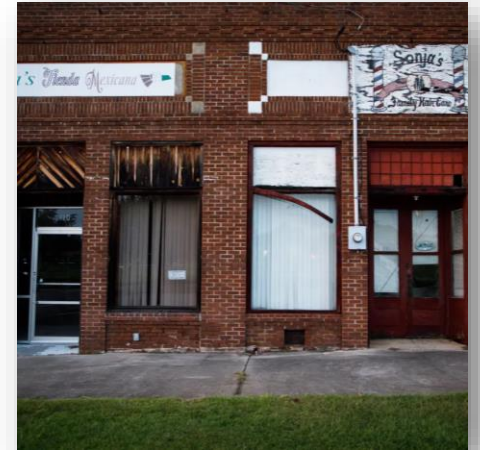
We have a great solution now.

# 45Q

Revised rules for CCS tax credits (45Q credits) are an economic game changer.



The Department of Energy is providing low cost-of-capital investment money for CCS.



Maintaining or boosting the tax bases of struggling rural areas while increasing environmental equity is political gold.

## Strong, Secular Tailwinds and Massive Demand



# Our Competition



Our competitors are large, well-funded, public firms globally.

IHI, B&W, and Air Liquide all have oxy-combustion technology among many product offerings.

Jupiter Oxygen is the only pure-play oxy-combustion firm.

They are Big. We are Nimble and Unique.



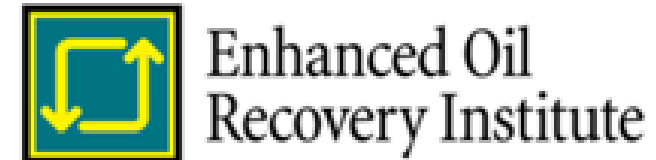
# Technical and Business Partners



**BLACK & VEATCH**

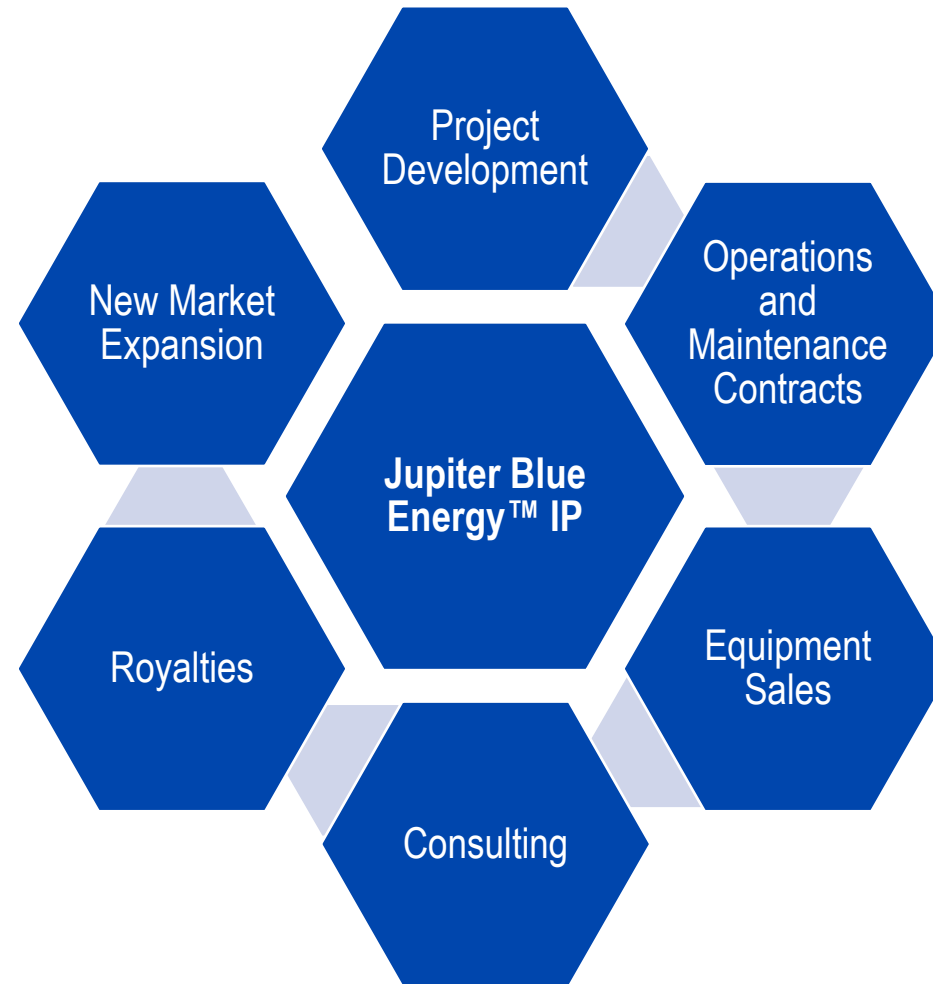


**Sargent & Lundy**



Some overlap with competitors, as is typical in this business 9

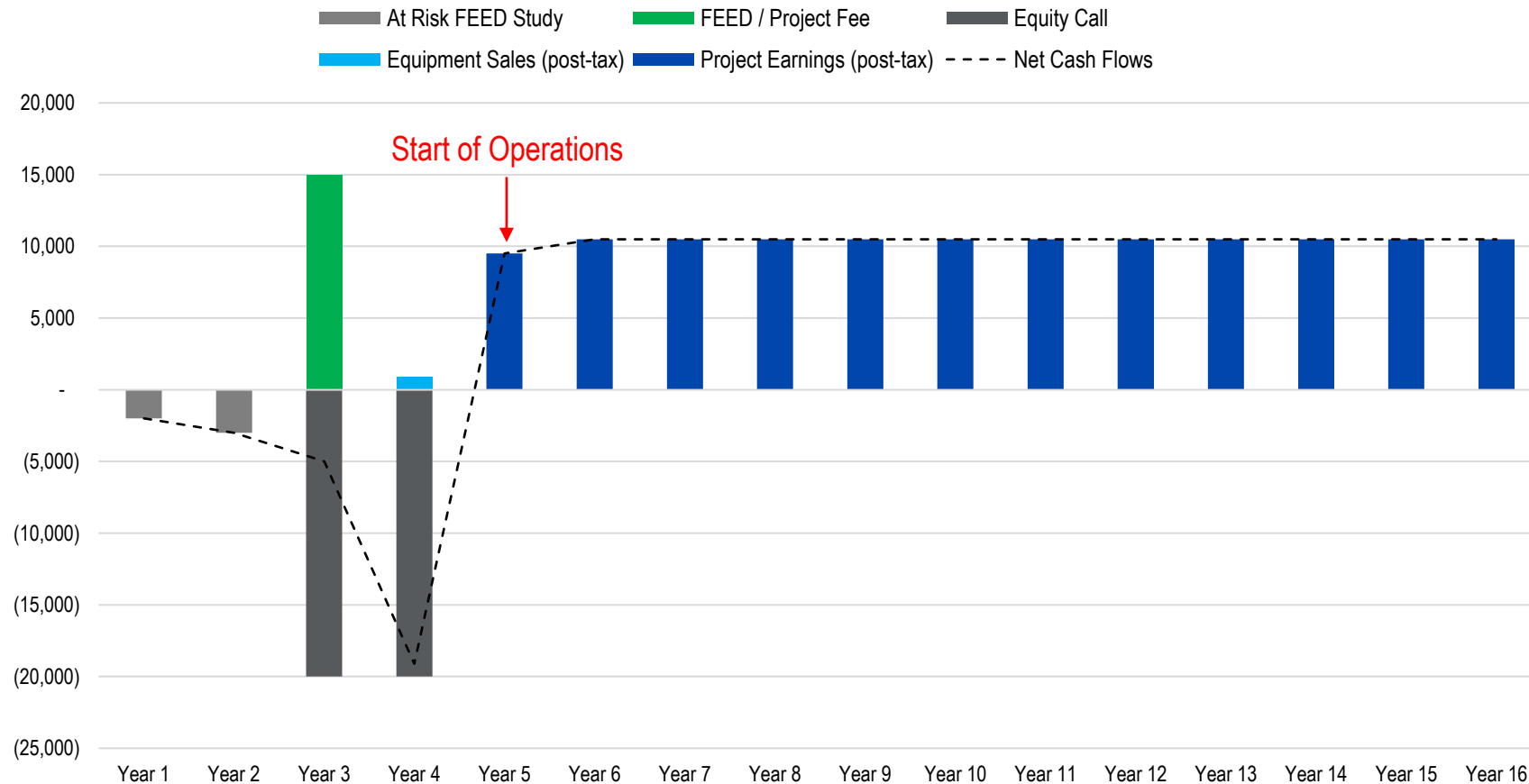
# Business Model



JOC's IP Provides Valuable Optionality

# Project Economics (112 MW CCS Facility)

Project Economics - Simplified Example  
(USD in thousands)



This example assumes:

- 112MW coal-fired retrofit
- 30% Jupiter project ownership
- No DOE funds
- 80% capacity factor (year 5)
- 85% capacity factor (y 6-16)
- 30% parasitic load
- 97% CO2 capture rate
- 100% sequestration
- Direct pay of 45Q rebates
- Generates a 35%+ IRR
- Winning DOE funding would significantly improve economics and de-risk the first roll-out

Spend \$30 to Win \$125

# For Partnership Inquiries

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