

Executive Summary – Jupiter Oxygen Corporation

Article 1

No longer an existential or theoretical assessment, the rising concentration of greenhouse gases in Earth's atmosphere has affected every geophysical system on which humans depend for survival. The growing peril of climate change is one of the most labyrinthine issues facing us today. The primary driver of climate change is anthropogenic emissions – the greenhouse gases generated by the industrial activities upon which modern society depends.

CO₂ is the key component in greenhouse gases. The increased concentrations of CO₂ in the atmosphere are at a level never seen in human history. The last time the earth experienced similar CO₂ concentrations (measured in ppm) was five million years ago.

The solution must be global with broad coalitions. The solution must incorporate a conglomeration of technologies with varying adaptabilities. And the solution must transcend the normative binary discord of fossil fuels vs. renewables. The industries that depend upon fossil fueled products and services are experiencing economic disruption as they respond to the carbon footprint left by their emissions. The challenges faced by renewable energy sources are momentous as they attempt to replace a \$25 trillion global infrastructure in 10 – 30 years.

Effective management of these challenges highlight the importance of transitional technologies. Those systems, processes, knowledge, and practical solutions that can be implemented and executed in the time frame when fossil fuels and renewables are becoming mature.

Carbon Capture is that technology. Direct Air, Post-Combustion and Oxy-Fuel Combustion are the three primary carbon capture technologies that can remove CO₂ that already exists in the atmosphere as well as ensure that continuing fossil fueled plants and industries emit near zero CO₂ emissions.

Jupiter Oxygen Corporation is the leading company for oxy-fuel carbon capture technology whose performance and cost make it the most efficacious of all carbon capture technologies. Our speed to market provides an immediate solution for climate change mitigation and offers a competitive advantage in the growing low-carbon economy.