

A Breakthrough Technology to Recycle CO2 into Fuel

Global Demand

Since the beginning of the industrial revolution, low cost fossil fuels, such as oil and coal, have powered humanity into a new era of advanced technology and modern life. Today, industrialization has reached a global scale, consuming more fossil fuel than ever before. Demand for these depleting resources has driven the price of energy to unimaginable levels, and in the process, released billions of tons of CO2 into the atmosphere. This dual crisis of energy and climate threatens our way of life, as well as the security of nations. Meeting this challenge is one of the most pressing needs of our time.

Renewable Fuel

Carbon Sciences is developing a breakthrough technology to recycle carbon dioxide (CO2) emissions into gasoline and other fuels. Innovating at the intersection of chemical engineering and bio-engineering disciplines, we are developing a unique, energy efficient and highly scalable biocatalytic process to meet the fuel needs of the world. With over 43 billion tons of CO2 emitted each year by 2030, there is an abundant supply of raw material available to produce renewable and sustainable fuels for global consumption and reduce our dependence on petroleum.

Existing Infrastructure

The world is highly dependent on the existing transportation and fuel delivery infrastructure. Automobiles, trucks, trains and planes powered by portable fuels are crucial to our way of life. Other alternative fuel technologies, such as fuel cells and hydrogen, require substantial infrastructure changes in order to meet the energy and climate challenge. Our solution is to enable a sustainable world of fuel consumption and climate stability by recycling CO2 into fuel. For example, our technology can be used to recycle CO2 from fossil fuel power plants into gasoline to run cars and jet fuel to fly aircraft.