
Message from the CEO

Dear readers

It is with great sadness that I have to announce the passing of Dr. Les Erdi, one of the company founders and main investor through Erdi Fuels and GreenEarth Energy. We could not have started NewCO₂Fuels without Les's vision and commitment and his passing away is a great loss for NewCO₂Fuels as well as the entire community. Dr. Les Erdi was a philanthropist and a visionary whose generosity largely contributed to the Australian and Israeli communities. Erdi Fuels, GreenEarth Energy and NewCO₂Fuels remain fully committed to the CO₂ to Fuel project and are dedicated to accomplish our goals and bring Dr. Les Erdi's vision into reality.



In this newsletter we would like to introduce our different centers of research and development and explain how they interact with each other. The staff across the different sites works intensively and is synchronized to develop our entire system at the highest level of engineering in a very short time frame. Our team understands the amount of research that is needed to invent breakthrough technologies and is fully committed to our project. We are committed to devoting our energies to ensure our technology remains on the cutting edge of innovation for today and into the future.

We are currently commencing our next round of investment, and looking for potential industry partners. During this process we will demonstrate how our technology can be integrated with existing facilities to improve business performance and significantly reduce the amount of CO₂ emitted.

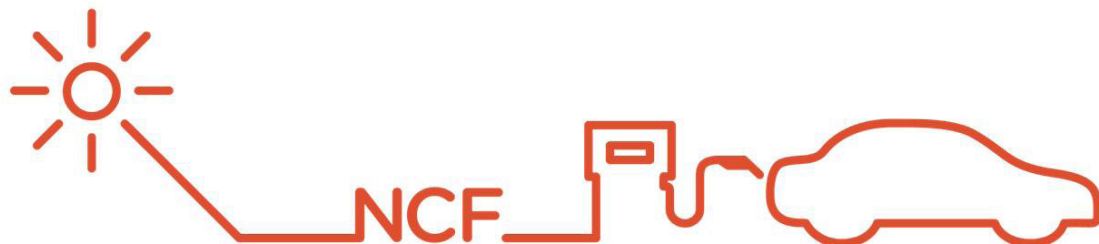
We also wanted to share with you a few interesting articles regarding synthetic fuels and renewable energy around the world to add perspective on what is occurring across the industry.

Enjoy reading.

Regards

D. Banitt

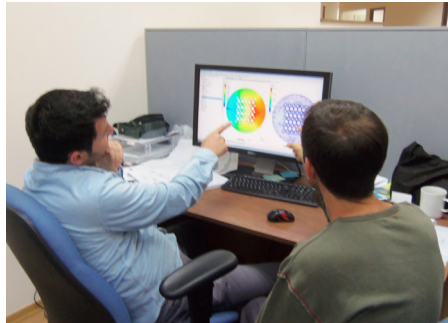
Dudi (David) Banitt
CEO



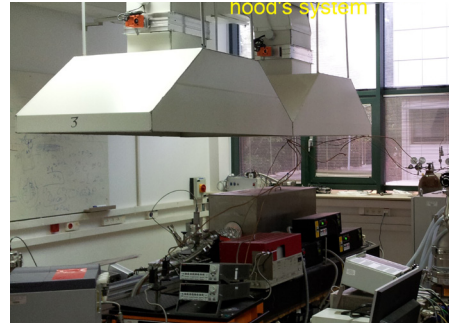
NCF technology introduction

NCF is developing its technology simultaneously on five different sites, each interacting with each other and dependent on one another.

Headquarter



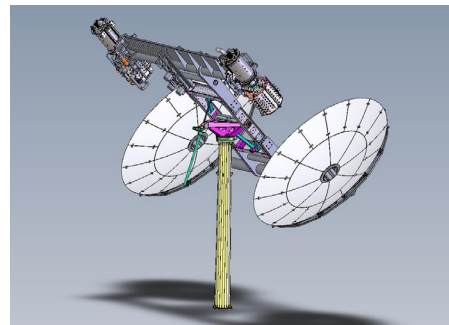
Lab & next generation lab



Solar Facility
at the Weizmann
Institute



Solar Tracker
(model)



The **headquarters**, located at walking distance from the Weizmann Institute, is where the engineers are located. Their focus is on designing and simulating the core unit including the chemical reactor and the solar energy collector along with the interaction with the solar tracker and, at a later stage, the solar plant.

The **lab**, situated within the Weizmann Institute, performs tests to better understand how our core technology operates under various conditions, different temperatures and extreme scenarios. In addition, our engineers from the headquarter are performing experiments in the lab to test some of their design that passed computerized simulation tests.

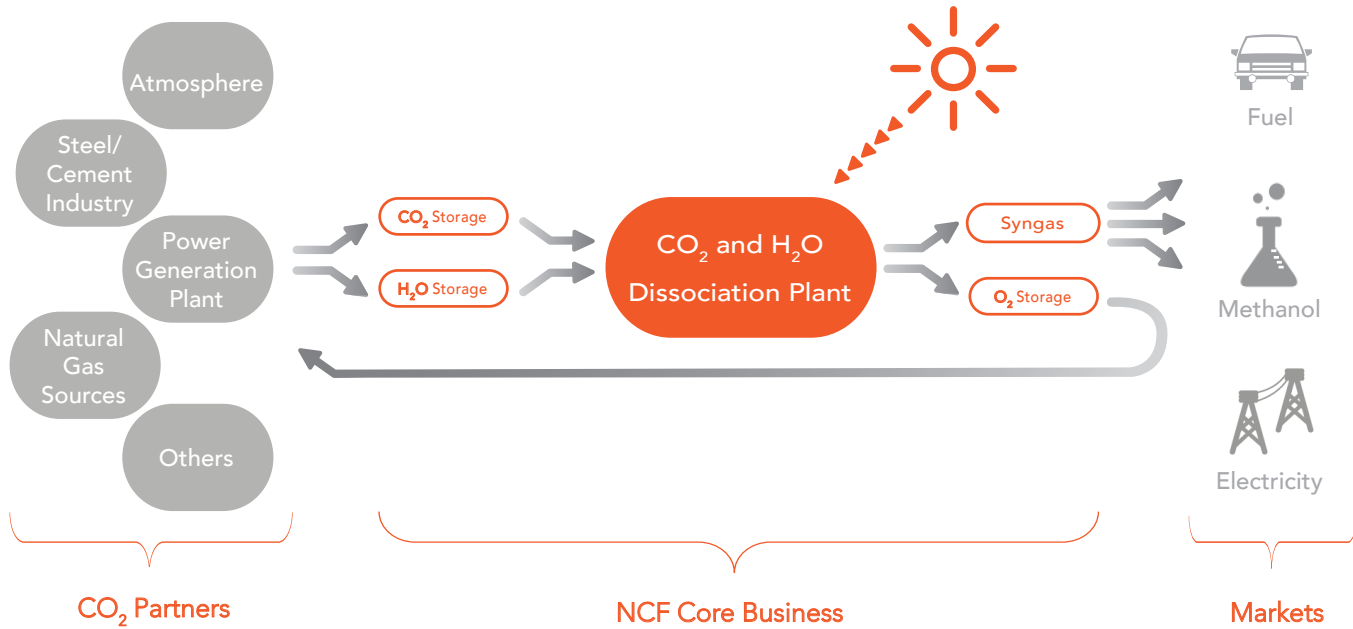
In the **next generation lab**, researchers prepare the technologies for the next generation of our products. Innovative technologies are being developed in collaboration with the Weizmann Institute personnel. NCF believes it is important to look beyond the current technology and start to prepare today the solutions for tomorrow.

The **solar facility** hosts NCF first small scale prototype comprising a chemical reactor, a solar receiver and a small scale solar dish. The solar tower will enable us to run tests on the units developed in the labs and introduce the necessary changes to achieve the desired performance.

The **solar tracker demonstration unit** will be completed in the last quarter of 2013. It is a small version of our end product and is designed to prove the viability of the technology under actual solar conditions, including solar tracking.

Potential Partners

NCF Solution



As NCF is developing its core technology, it is also vital to form strong partnerships with the existing industries.

The strategic partners will benefit from integrating NCF systems into their existing CO₂ emitting facilities, using their emissions as feedstock to produce synthetic fuels, thereby enhancing their production capacity and reducing their CO₂ footprint all simultaneously.

NCF intends to exploit the flexibility of its plants' design for optimal implementation and integration in the plants of its potential partners.

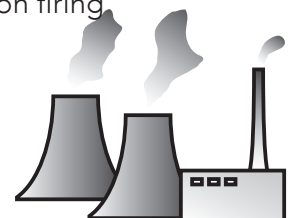
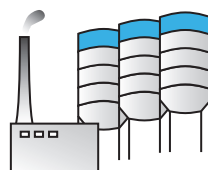
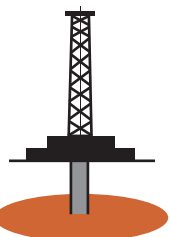
NCF technology will be associated with large CO₂ emitting facilities, such as gas wells or coal gasification plants, where such CO₂ emission can be used as feedstock and generate revenues as well as contribute to CO₂ footprint reduction.

Potential Partners

- Gas wells
- Power plants
- Coal gasification plants
- Steel, aluminum and cement factories
- CO₂ emitting methanol production Plants
- Others

Advantages:

- Recycle CO₂ emission
- Use CO₂ emission as feedstock
- Increase efficiency of current production
- Produce synthetic fuels
- Clean energy source
- Support Oxy-combustion firing
- ~ Efficiency 40%



News Around the World

Synthetic Fuel Could Eliminate U.S. Need for Crude Oil, Researchers Say

The United States could eliminate the need for crude oil by using a combination of coal, natural gas and non-food crops to make synthetic fuel, a team of Princeton researchers has found.

<http://www.sciencedaily.com/releases/2012/12/121205200216.htm>

In Australia: Wind Power Already Cheaper Than Fossil Fuels, Solar Is Right Behind

Electricity from wind power can now be supplied more cheaply in Australia than power from either coal or natural gas; and solar and other forms of renewable energy aren't far behind

<http://thinkprogress.org/climate/2013/02/10/1566881/in-australia-wind-power-is-already-cheaper-than-fossil-fuels-and-solar-is-right-behind/>

China's Growing Methanol Economy

China has increased production capacity and consumption of methanol. In less than a decade, methanol use in China's transportation sector grew from virtually zero to replacing nearly 8% of the country's gasoline requirement.

<http://www.fuelfreedom.org/blog/chinas-growing-methanol-economy-2/>

Rentech Close to Constructing the World's First Syngas Power Plant

Los Angeles-based biofuel developer Rentech Inc. (AMEX: RTK) received the final air permit from Florida Department of Environmental Protection to build a syngas power plant.

<http://www.energyboom.com/biofuels/rentech-close-constructing-worlds-first-syngas-power-plant#sthash.zE3CNu9i.dpuf>

CONFERENCES AND EVENTS

SOLAR 2013

Baltimore, U.S.A.
16 - 20 April 2013
<http://ases.org/solar2013>

Bloomberg New Energy Finance Summit

New York, USA
22-24 April 2013

<http://about.bnef.com/summit/>

Solar 2013, Australian Solar Council Annual Conference

Melbourne, Australia
23 - 24 May 2013 <http://solarexhibition.com.au/>

InterSolar Europe

Munich, Germany
19 - 20 June 2013
<http://www.intersolar.de>

ISES Conference (ISES)

Cancun, Mexico, 3-8
November 2013
<http://www.swc2013.org/site/>