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Producing Renewable Hydrogen and Ethanol

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Global Licensing IP

Industry: Producer of renewable carbon neutral transport fuels including Ethanol without using food stocks and carbon footprint reducer, major CO2 sequestering.

Independent Validation Completed

Sydney University Report, over 6 months, fee paid \$100,000. Proven 170 litres per KWH with degradation, iron and hydroxyl rates measured. EGF has produced many documents based on the data from this independent report, including all ROI and economics involved.

Current Development stage: We are ready to scale up to a working prototype (a detailed budget available)

Capital required:

\$12.5 Million. To construct a 300 KWhr prototype refinery, producing renewable hydrogen, oxygen and ETHANOL. Safety and government protocols are completed. This is a Template for construction of all SOLANOL refineries worldwide and a working final proof of concept that can be witnessed by all governments and industries. **EGF enters into JV's and licensing agreements producing a ROI for our investors.**

We Make Ethanol with High ROI without using Food Resources:

Eco Global Fuels (EGF) is at the leading edge in the production of renewable carbon neutral fuels such as Ethanol. With a foundation of decades of research, EGF has harnessed the hydrogen component of water through a unique, economical and patentable process of electrolysis, which can be powered by any renewable energy source. It can also be powered by the clean use of gas turbines and off-peak electricity.

Carbon dioxide emitted by gas fields, coal power stations and gas turbines is combined with our cost effective renewable hydrogen and our unique catalysis, to produce Ethanol and other transportation fuels at competitive wholesale market prices. It is distributed using existing delivery infrastructure. No other process in the world is able to take DC electricity, combine it with water and CO2, and produce ETHANOL at remarkable ROI

Eco Global **Solanol** production is financially viable because it is economically scalable, is less than half the cost of conventional electrolysis, has very low maintenance costs, does not use diaphragms which clog and need constant replacement, and has reliable cell units made from low cost materials that are durable lasting for approx. 20 years - all of which has been independently validated by trials and testing at a Sydney based University at a cost of \$100,000.

Over 100% Sequestration.

A unique benefit from the EGF fuels process is major CO2 sequestration, through use of our by-product iron, which accelerates algae growth. We then convert the algae into bio-char, replacing carbon into the soil, radically increasing agricultural yields and rebalancing poor soil. Adding the CO2 used in the Ethanol manufacturing process with the iron, the sequestering is over 100% - no other technology can achieve this.

Business problem and opportunity

Reserves of fossil fuels are finite and create a range of problems, including pollution, global warming and dependence on imports. Governments all around the world have demanded renewable fuels being introduced to the market place within 5-10 years. Industries such as coal and oil need to find ways of dealing with huge CO2 emissions (fines) and carbon taxes. Using biomass (food) for fuel has inherent problems including increasing food prices in third world communities (we do not use food in our process). We have the unique ability to adapt to various sources of electrical input, including waste electricity/off-peak coal power, turning both of their negatives (CO2/waste DC) into a value added commodity - Ethanol. We are the only economical process that can convert any DC and water into transportation fuels. We sequester CO2 from emitting industries- in fact- over 100% - reducing their carbon taxes and future government fines. The EFG process and technology is a win-win scenario for all industries and governments, increases ROI, lessens imports of fossil fuels and reduces CO2, a win for the planet and future generations.

Products/Services/ROI Sales of Ethanol are made directly into the market place at very competitive prices- we make it better and cheaper than bio fuel processes, and produce remarkable ROI. ROI on our renewable ethanol production is linked to wholesale prices of gasoline, which are generally increasing (complete ROI economics using solar, natural gas and waste electricity are available by request). Our hydrogen process is cheaper and cleaner than conventional production. By-product oxygen is sold commercially, and can be introduced into coal power stations, producing nitrogen-free emissions and carbon black products, which keeps the CO2 on the ground. By-product iron (from the hydrogen generators) is a major factor in the unique EGF process of CO2 sequestering.

We contract licensing fees to industries that wish to reduce their high volume CO2 emissions and convert it into renewable Ethanol branded as '**Solanol**'. We manufacture fuels making us a unique and productive 24 hr. base load industry.

Competition/ Market penetrate

EGF is approximately 70% more cost effective than corn or sugar based Ethanol, and uses no food, fossil fuels or government subsidies in its production. We are not in competition with biofuels, as the alternative fuel marketplace cannot get enough to meet government guidelines. Currently gasoline is priced in the US at \$ 3.00 - \$4.00 gallon while EGF is positioned to sell at current pricing of \$2.30 per gallon with a current average cost to produce @ \$1.56 US per gallon, which produces a healthy ROI. All ROI details are available by request.

We are ready for our next stage of development, and looking for equity partners who have the vision to see and realize our unique potential in a trillion dollar marketplace.