



Production

Green2Black™ Muradel's Integrated Biofuel Technology is a 5 step process for the production of renewable transport fuels.

Step 1: Primary production

Muradel propagates robust microalgae strains in shallow, salt-water ponds. On a per area basis the system is far more productive than traditional biomass crops, and Muradel has demonstrated year-round microalgae growth at scale over several seasons with full recycle of media.

Step 2: Harvesting and concentration

Muradel uses a patent-pending, energy-efficient electroflocculation method to continuously harvest and thicken the microalgae from its large ponds. A dewatering step further concentrates the microalgae into a thick, flowable slurry.

Step 3: Conversion to hydrocarbons

Feedstock is converted in minutes to a mix of hydrocarbons in a sub-critical water reactor (SCWR) via hydrothermal liquefaction. Muradel's patent-protected reactor requires no catalysts, operates continuously, and is energy efficient, cost effective, durable and feedstock flexible.

Step 4: Extraction

The output of the reactor is a product called "kerogen", from which Muradel extracts the hydrocarbons and produces its green crude using purpose built systems.

Step 5: Fractionation

Using off-the-shelf technology, Muradel's green crude can be fractionated into the normal range of finished fuels that are infrastructure- and engine-compatible.



Latest News

- USA legislates to include algal feedstock under Section 40
- [Muradel: Biofuels Digest's 5-Minute Guide...](#)