PHIREON
GLOBAL
PARTNERS

HEALING THE PLANET TODAY WITH THE TECHNOLOGY OF TOMORROW

BIOFUELS

Phireon Global Partners Specializes in new and emerging technology in various sectors designed to heal the planet, better lives, and generate profits. We develop extraordinary technology and exclusively represent a number of advanced IP, including recently declassified technologies. **We Heal the Planet Today, With the Technology of Tomorrow.**

OUR FOOTPRINT IN BIOFUELS:

- BIOFUEL
- CLEAN ENERGY
- GREEN POWER
- AGRICULTURAL SYSTEMS
- WATER FILTRATION
- SOIL REMEDIATION
- PURE GENETICS

39 COUNTRIES

175 FACILITIES

Phireon Global Partners utilizes only those technologies that clean the air, water, food, and soil.

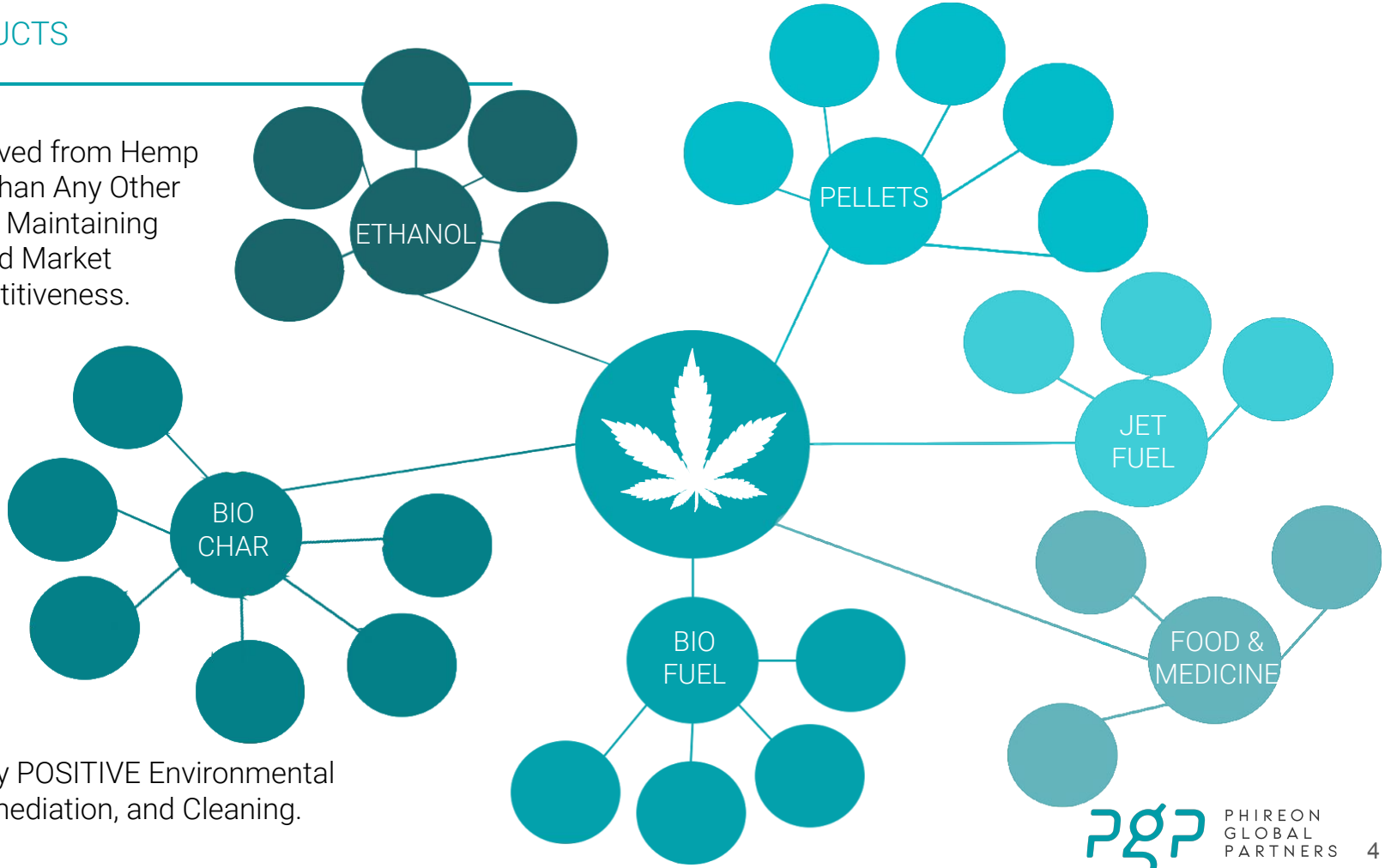
OUR FUELS:

- Sequester CO_2 Better
- Create Healthy Agriculture
- Produce ZERO Waste
- Produce ZERO Industrial Waste
- Use Only Pure Genetics
- Remediate the Soil
- Clean the water
- Remove Environmental Pollutants

Our Reliance on Fossil Fuels is not just an Issue of Environmental Concern but also National Security. Now, Poor Prior Legislation is no longer an issue.

OUR PRODUCTS

Biofuels Derived from Hemp are Cleaner than Any Other Source while Maintaining Efficiency and Market Price Competitiveness.

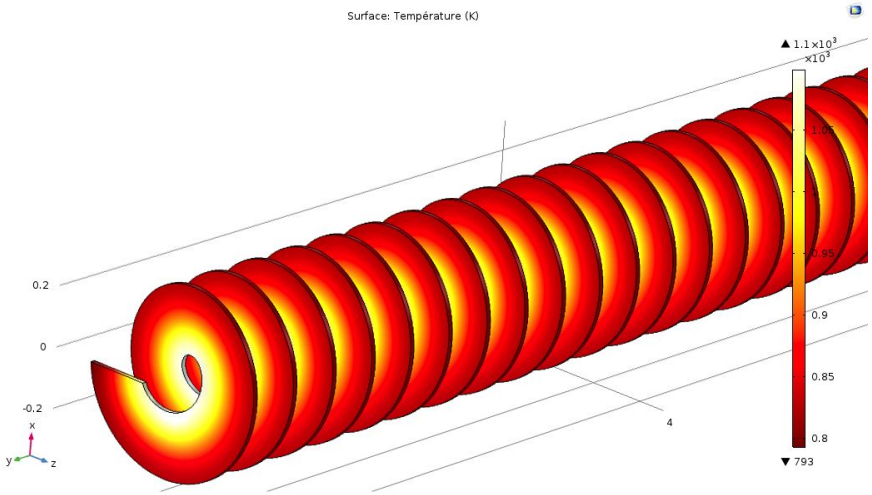


There is only POSITIVE Environmental Impact, Remediation, and Cleaning.

THE TECHNOLOGY - “HECS”

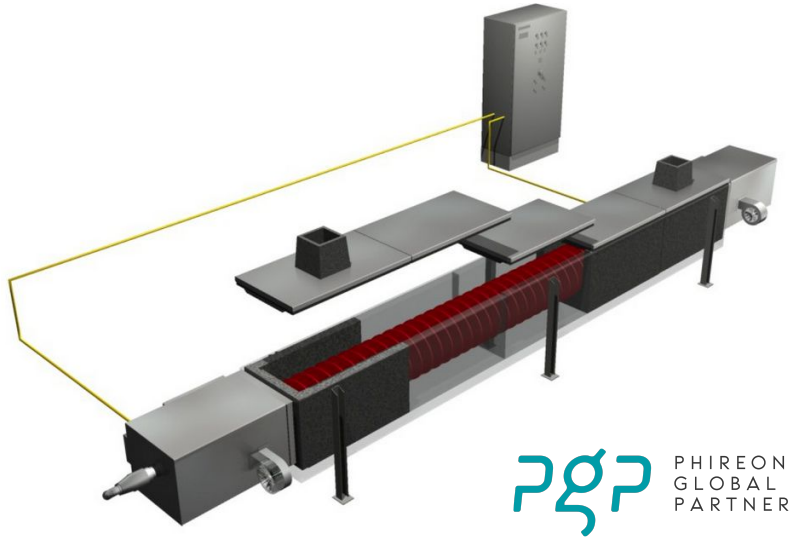
HEATED ELECTRICAL CONVEYOR SCREW

- Simple → Easy to operate
- Robust → very low maintenance
- No electrical heater → No sensible element
- No double jacket → No hot fluid or gas needed
- Plug flow process → FIFO reactor



PROVEN INDUSTRIAL TECHNOLOGY

- 20 years experience
- 10 worldwide patents



- ✓ Treatment of bulk materials of any shape, wet and dry
- ✓ Capacities from 30 up to 4000 l/hr
- ✓ Process temperature up to 850 deg. C
- ✓ We Control PERFECTLY The Process Temp
- ✓ We Control PERFECTLY the Residence Time of Product

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POWER INSTALLED UP TO 300 kW per reactor

Industrial series

- Heating
- Low temperature drying

Food processing series

- Pasteurisation
- Steam sterilization
- Toasting / roasting

High Temperature series

- Carbonization
- Torrefaction
- Pyrolysis

PYROLYSIS PLANTS

Bio-coal production from PKS

Liquid smoke production from red-beech tree

Biochar and steam production from tobacco biomass residues

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- We have done **20+ years** of analytics on hemp biomass turning it into a high energy output clean burning renewable energy pellet that is 100% torrified making it hydrophobic (*Crucial to energy production and storage*).
- IT CAN STORE INDEFINITELY WHEREAS OTHER PELLETS' SHELF LIFE IS 30 DAYS (*Less if humid*).
- These 20 years of crop data has led us to the point of being able to create the highest energy production rate per ton of energy pellets in the entire industry
- IT ALL SATISFIES THE 2016 PARIS ACCORDS OF CONVERTING THE GLOBAL COAL FIRE FACILITIES TO BURN RENEWABLE ENERGY PELLETS
- Our pellets can be used in ALL coal plants NOW with ZERO retrofitting, enabling the us to meet the global clean fuel standards TODAY

- We create 3 tons of pellets per every acres of Hemp.
- Our Pellets generate ~22-23 Gigajoules per ton (*no other bio pellets achieve this level of efficiency*)
- We have access to scale to 2 Million Acres of Dedicated Hemp Growth by year two.
- **We sell each ton for ~$300 Per Ton**
- **2M Acres of hemp = $1.8B dollars a year in Bio Pellets Sales ALONE.**
- As a byproduct of our Bio Pellets Manufacturing we are able to clean millions of gallons of water a day predicated on flow rates of the waterways.

GASIFICATION PLANTS IN OPERATION

Substitution of fossil fuel by syngas

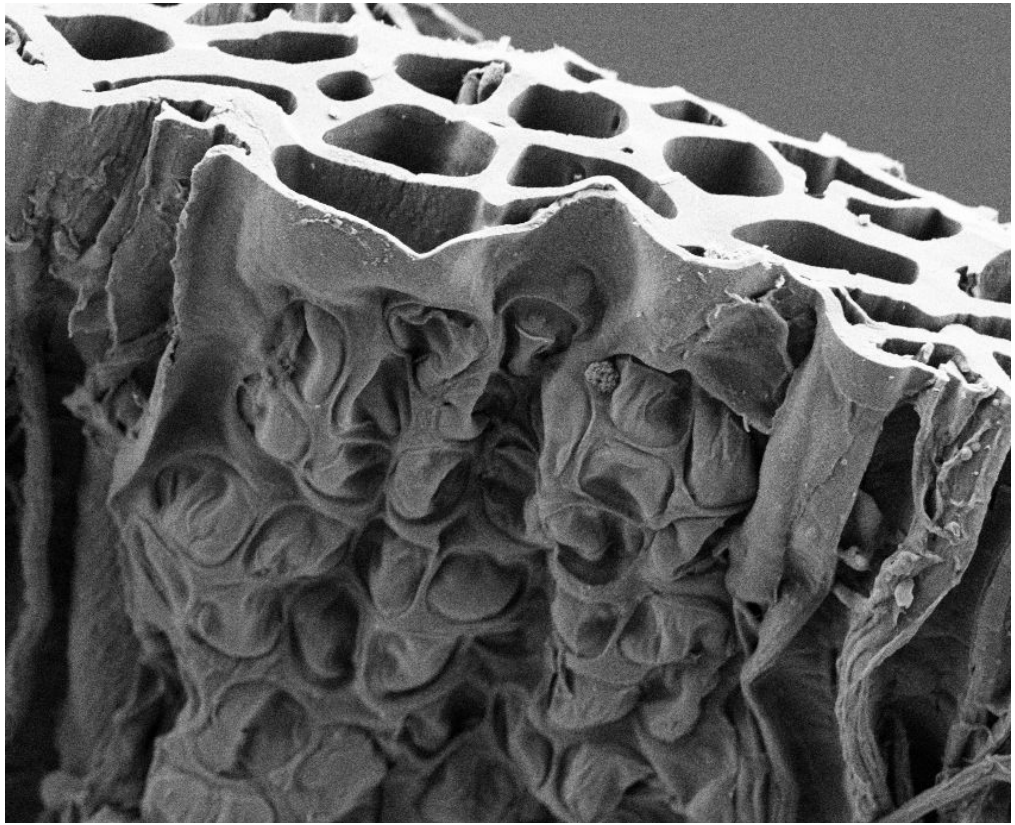
2 MW capacity
Syngas from wood chips

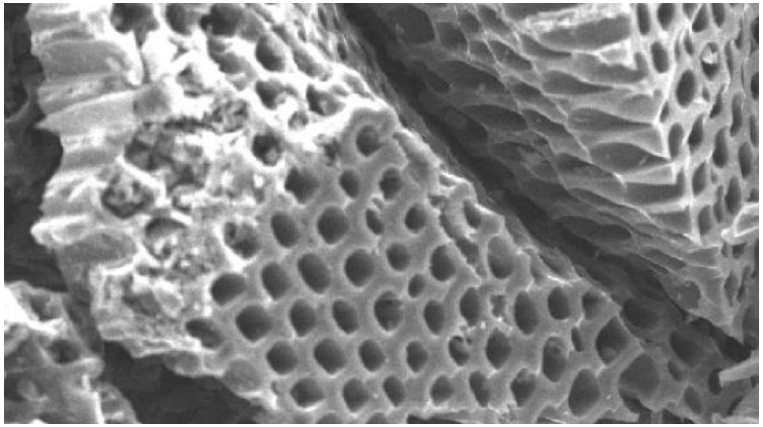
100 kW capacity
Syngas from wood chips

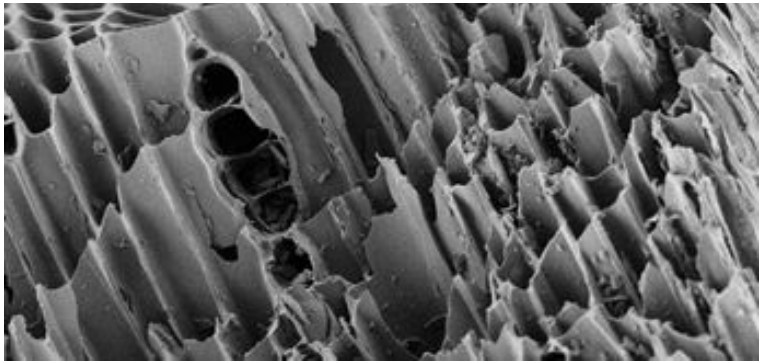
BIOCHAR

- Iron ore + our hemp based carbon = Hemp plants carbon = Superior and Durable Green steel.
- We can make green steel because our plant based carbon is no less than 75% CEFIX
- We sell the activated carbon to steel manufacturers and graphene useful in graphene
- Cheaper than all other carbon sources based on how we manufacture and our efficiencies
- Hemp graphene is a super conductor and highly desirable to the market.
- We sell each ton of BioChar for $300-$750 per ton depending on quality of BioChar.

BIOCHAR







Our Biochar is superior in design and configuration able to remediate water and soil via electromagnetic induction

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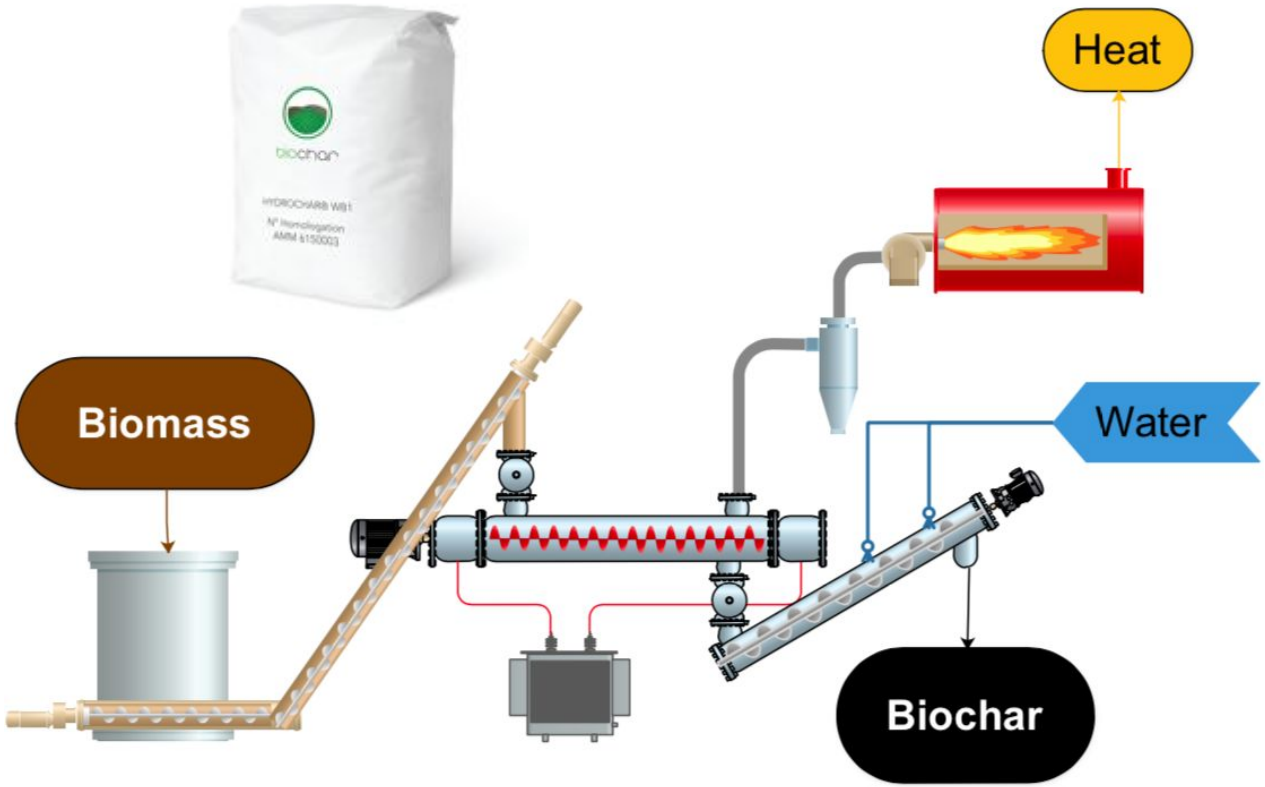
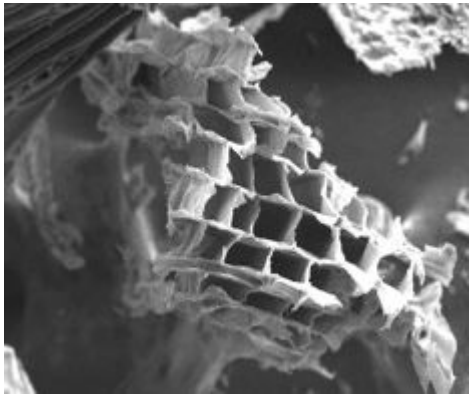
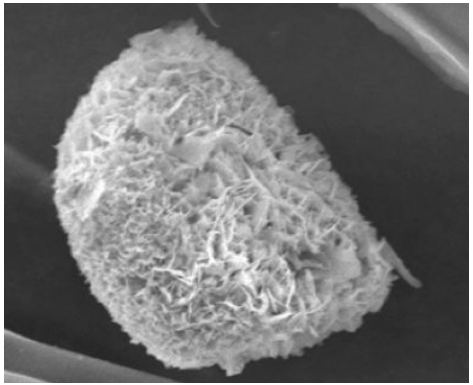
BIOCHAR







Our Biochar is more highly magnetized and structured than any other biochar on the market

GLOBAL FACILITIES

USA

SWITZERLAND

FRANCE

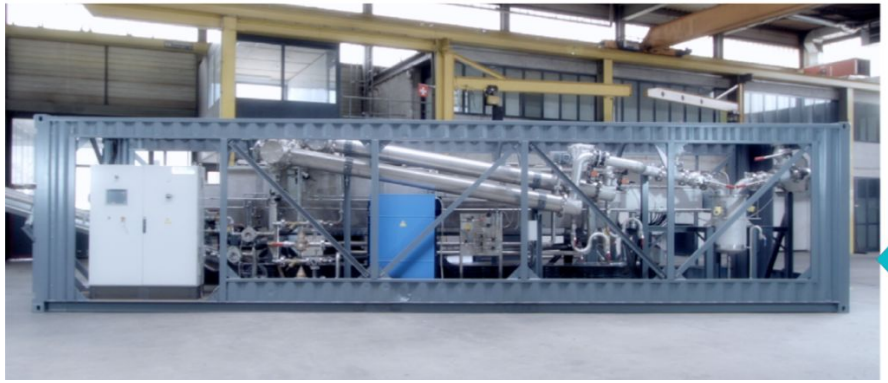
CANADA

- We can produce 40 gallons (151.6 liter) of biodiesel per acre of hemp
- 40 gallons (151.6 liter) per acre x 2,000,000 Acres = 80M Gallons per 4 months
- 240 Million Gallons a year by year three
- **240 Million gallons x $3.40 per gallon = $816M gross revenue per year**

PLANTS IN OPERATION

RDF -> ELECTRICITY

MOBILE UNIT



RDF -> HEAT

MOBILE WASTE TO HEAT

ZERO EMISSIONS PROCESS FOR FOOD

PASTEURIZATION OF TEA

STERILIZATION OF SPICES

TOASTING PEANUTS

STERILIZATION OF DEHYDRATED VEGETABLES

EQUIPMENT

TAR CRACKING

SYN GAS BURNERS

SLUDGE DRYERS

BIOMASS DRYERS

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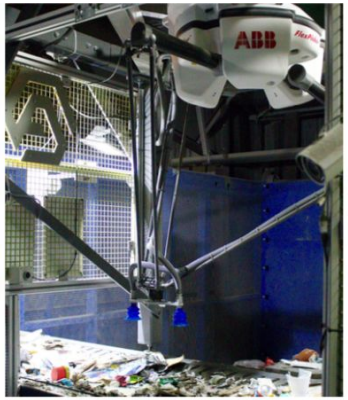
ROAD MAP

	YEAR 1 (20k Acres)	YEAR 2 (200k Acres)	YEAR 3 (2M Acres)
BIO PELLETS	• 60k Tons Produced • **$18M gross rev** • 60k tons of carbon pollution prevented	• 600k Tons Produced • **$180M gross rev** • 600k tons of carbon pollution prevented	• 6M Tons Produced • **$1.8B gross rev** • 6M tons of carbon pollution prevented
BIOFUEL	• 1.6M Gallons Produced • **$5.4M gross rev** • 15k tons of carbon pollution prevented	• 16M Gallons Produced • **$54M gross rev** • 150k tons of carbon pollution prevented	• 160M Gallons Produced • **$540M gross rev** • 1.5Mk tons of carbon pollution prevented
ROOT CROP CARBON SEQUESTRATION	• 320k tons of carbon sequestered	• 3.2M tons of carbon sequestered	• 32M tons of carbon sequestered
TOTAL CARBON REDUCED	**400k TONS**	**4M TONS**	**40M TONS**

AI ENHANCED ROBOTIC VISION



CUBING TECHNOLOGY

For RDF & BIOMASS

DRYING OF NACl

CHEMICAL SLUDGE PROCESSING

TYPE OF EQUIPMENT AVAILABLE

RnD units

Mobile and stationary pilot equipment for testing and development of new bio-based products

Containerised units

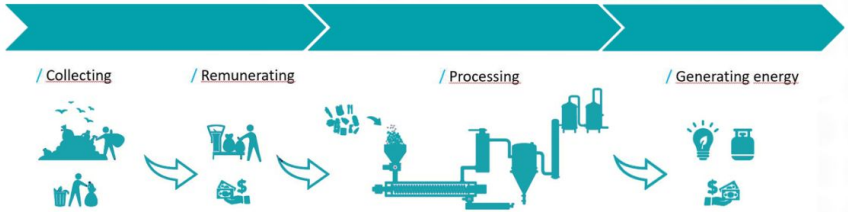
Compact, plug & play equipment for simple installation and easy configuration on site.

Stationary plants

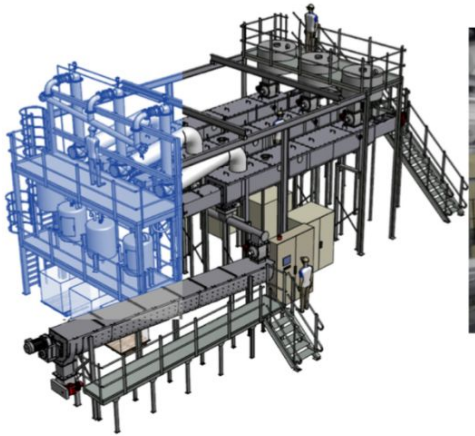
High capacity equipment for stationary applications, often several machines operating in parallel.

WASTE TO ENERGY

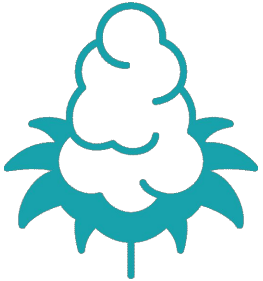
Mobile and containerized unit for production of electricity and oil from plastic waste



THE PROCESS



Engineering → Manufacturing & FAT → Commissioning & Training



- Hemp Biodiesel Is A Carbon-Neutral Replacement For Diesel.
- **Hemp Grows So Fast That It Consumes A Ton More Co2 Emissions In Its 4 Month Life Cycle Than A Whole Forest Does In A Year.**
- Hemp Is One Of The Fastest Co2 To Biomass Conversions Found In Nature.
- It Dwarfs Mature Forests And Mature Rain Forests In Their Capacity To Sequester Co2.
- Rainforests Used To Be The Benchmark Of Co2 Sequestration, We Know Now, That Hemp Consumes More Per Annum Then Anything Else – Per Acre/ Per Hectare.
- <u>WE ALREADY HAVE 200 THOUSAND ACRES DEDICATED FOR HEMP & CAN SCALE TO 2M WITHIN TWO YEARS</u>

HEMP'S UNIQUE ROLE

- We Own The Genetic Library Of Natural Seed That Can Fuel All These Verticals While Cleaning the Environment.

- We Have Developed Patents On Hemp Processes For Biofuels And More (In Multiple Verticals) Across Various Regions

- By Scaling One Of Our Existing Systems In Switzerland That Is 100% Renewable And Regenerative We Can Facilitate a Smooth Transition to Effective BioFuels

- We Have Developed An Agronomy And Process To Create Air Filters Cheaper & Better Than Hepa That's 100% Renewable And Regenerative

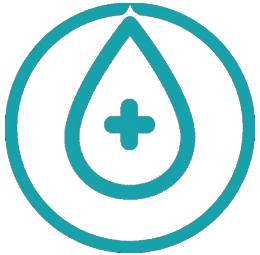
CARBON SEQUESTRATION

- We Can Sequester 8.06 Tons Of Co2 Per Acre Of Our Pure Genetics Hemp. **THIS IS QUANTITATIVE DATA** from years of experience.
- This Is Nearly 4 Times The Amount Of Carbon Sequestered From Forests…Per Season
- OUT OF ALL BIO-LIFE ON EARTH – HEMP IS THE ONLY THING THAT DOES THIS THE BEST.
- Hemp Is Being Uniquely Used To Also Sequester Carbon Back Into The Soil Through A Process Called Biosequestration.
- As Stated In The Us Dept Of Energy Workshop On Carbon Cycling And Biosequestration:

  *"The Global Carbon Cycle Plays A Central Role In Regulating Atmospheric Carbon Dioxide (Co^2) Levels And Thus Earth's Climate…global Carbon Cycling Is Dominated By The Paired Biological Processes Of Photosynthesis And Respiration. Photosynthetic Plants And Microbes Of Earth's Land-Masses And Oceans Use Solar Energy To Transform Atmospheric Co{Sub 2} Into Organic Carbon…this Process, Known As Carbon Biosequestration, Temporarily Removes Carbon From Active Cycling And Has Thus Far Absorbed A Substantial Fraction Of Anthropogenic Carbon Emissions." **

Graber, J., Amthor, J., Dahlman, R., Drell, D., and Weatherwax, S. Carbon Cycling and Biosequestration Integrating Biology and Climate Through Systems Science Report from the March 2008 Workshop. United States: N. p., 2008. Web. doi:10.2172/948438.

WATER FILTRATION



- Hemp Can Also Be Processed Down Into A Biochar And When Used – Will: Improve Water Quality, Increase Soil Fertility, Raise Agricultural Productivity And Reduces Pressure On Mature Growth Of All Types Of Crops.
- 2 crop cycles can remediate 100% of brown fields. (*NOT Including Radiation*)
- According To Multiple Studies Done By The Us Dept Of The Interior, The Usgs And The Usda: *When We Produce Biochar From Hemp, We End Up Converting Much Of The Aliphatic Carbons (Which Are Radical And Contain No Carbon Ring Structures) To A Very Stable Form Of Aromatic Carbon (The Stable Kind That Contains Rings Of Carbons, Like Graphite). This Is Crucial Because It Makes The Carbon Stable In Soils For 100's Of Years.*
- <u>OUR SPECIFIED HEMP GENETICS FILTERS WATER LIKE NO OTHER MATERIAL ON EARTH</u>

- We Have Hemp Building Materials, Air Filtration Products, Fiber Products, And Medicinal Verticals Already In Place

- Studies Have Shown That A Large List Of Downstream Products Using Hemp Fibers Continue To Sequester Carbon Long After They Have Been Manufactured-Sold-And Used In The Marketplace From Building Materials To Packaging, Plastics And Consumer Products.

- Our Natural Seed Genetics Do Not Require Pesticides To Grow Naturally + The Ability For Farmers To Self Propagate Seed Stocks Makes This The Only Win:Win:Win Crop That Exists.

"One of a Nation's most important assets, is the fertility of its soil." – USGS, USDI, USDA

PLANTS IN OPERATION

JUSTICE

- Meets 2016 Paris Climate Accords
- Enables Us To Meet The Goals Set Out By Bush for Clean Energy
- Biofuels Derived From Hemp Are Cleaner Than Any Other Source
- There Is Only Positive Environmental Impact, Remediation, & Cleaning
- Minority Owned
- Affording Jobs, Training, Education, Corporate Track, And Opportunity To Underserved Populations
- Transition Program And Jobs For Veterans Into Civilian Life
- Prisoner Training And Transition Program


SUSTAINABLE DEVELOPMENT GOALS
1 NO POVERTY
2 ZERO HUNGER
3 GOOD HEALTH AND WELL-BEING
4 QUALITY EDUCATION
5 GENDER EQUALITY
6 CLEAN WATER AND SANITATION
7 AFFORDABLE AND CLEAN ENERGY
8 DECENT WORK AND ECONOMIC GROWTH
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE
10 REDUCED INEQUALITIES
11 SUSTAINABLE CITIES AND COMMUNITIES
12 RESPONSIBLE CONSUMPTION AND PRODUCTION
13 CLIMATE ACTION
14 LIFE BELOW WATER
15 LIFE ON LAND
16 PEACE, JUSTICE AND STRONG INSTITUTIONS
17 PARTNERSHIPS FOR THE GOALS
SUSTAINABLE DEVELOPMENT GOALS

JUSTICE - (*UN SDG GOALS*)

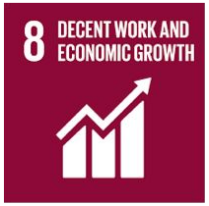
By decentralizing the BioFuels Hemp production we end poverty for those families involved

By providing education and integration into profitable farming for fuel we provide upward mobility for our people

Our clean fuel systems provide inexpensive green energy that is reliable and robust

Our systems clean brownfields and waterways enabling growth of nutritionally dense foods.

Our program systems are designed to empower all people regardless of sex, class, creed.



Our program creates jobs, and upward class mobility to everyone in every part of the supply chain.

By growing our fuel we encourage health and well being in every citizen nearby our operation.

Our Biofuels systems clean waterways and remediate bodies of water.

Each of our verticals builds new industries, sectors, and pathways for people to develop in.

JUSTICE - (*UN SDG GOALS*)

Phireon serves People across all socioeconomic spectrum to achieve energy independence, sustainable waste management, and food security.

Phireon Bio Fuels Systems are designed to bring about sustainable cities and communities.

With efficiencies in our design and implementation all systems operate more efficiently and less wastefully

Our Pure Genetics, biofuels, and practices sequester more carbon than nearly every other method available.

Our biofuels systems remediate the waterways in every jurisdiction we operate in

Our Pure Hemp genetics remediate brownfields within two seasons.

Peace is easier when we end poverty and provide food security. All PGP systems are designed with this in mind

Phireon works across 175 facilities in 39 countries and is cross disciplinary and holistic in its approach to include all contributors.


Thank You!