



SulNOx

Taking you further, faster and cleaner

The Greentech company providing
next generation, natural solutions, for immediate
progression towards carbon neutrality

Decarbonisation:

It's a word we've all heard a lot lately,
but what does it mean?

Verb [\[edit\]](#)

decarbonize (third-person singular simple present **decarbonizes**, present participle **decarbonizing**, simple past and past participle **decarbonized**)

1. To remove **carbon** from something, especially from an **engine**. [\[quotations ▼\]](#) [\[synonym ▲\]](#)

Synonym: **decoke**

2. To reduce or replace **fossil fuels** by **renewable energy** in energy production systems and processes. [\[quotations ▼\]](#)

The human species is in a race against time to decarbonize. *That is to replace fossil fuels.*



1992



2021



2022

Hasn't decarbonisation already been solved? We're doing it aren't we?... NO!

BATTERIES

Developing well, for small vehicles like cars, but decades away for aviation and shipping.
Batteries just don't have the power stored per Kg mass that fossil fuel does! There are also serious questions over the carbon lifecycle of batteries.



HYDROGEN

Still many years away from large-scale implementation,
virtually zero infrastructure in place even in first world countries to run hydrogen powered vehicles.

ALTERNATIVE FUELS LIKE GREEN METHANOL

Other fuels are in development for shipping, which is good, but the majority of fleets now run on very low sulphur fuel oil (VLSFO). That helps Sulphur emissions, but not carbon output.



The International Energy Agency (IEA) state the world's reliance on hydrocarbon liquid fuels will continue and is likely to still account for 80-90% of transport consumption in 2030

Shipping still c.70% by 2050

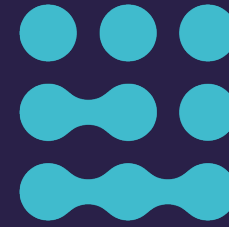
We are ignoring the here and now whilst looking to the future for technologies. If this continues, our planet will pay the price!

Who are SulNOx Group?

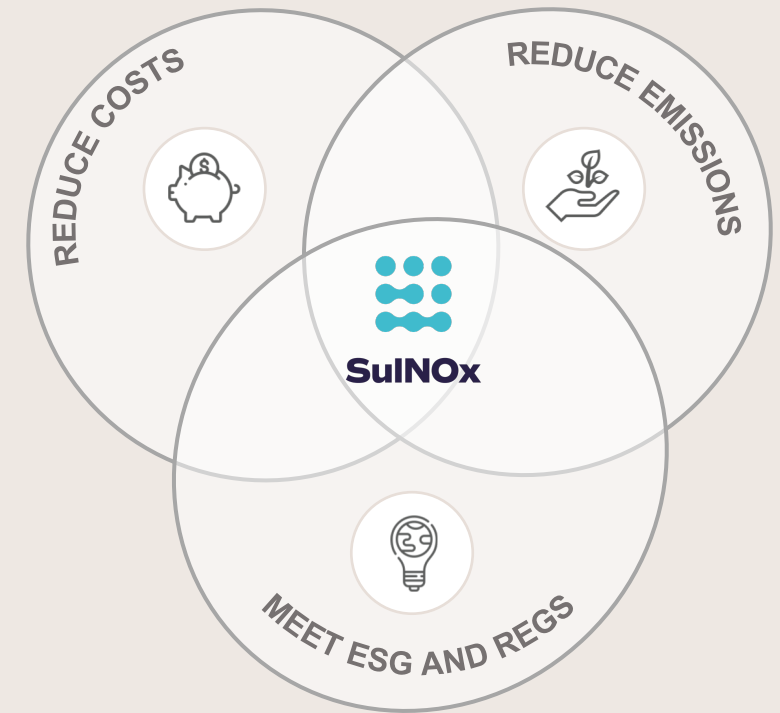
- London-listed Greentech PLC
- Inventors of natural, biodegradable fuel emulsifiers and conditioners
- Optimising combustion, reducing emissions and fuel consumption
- Scientifically proven with Global scalability



2022 Innovation Award
for Fuel Conditioner



"SulNOx is the energy transition stock to make an instant and huge impact on climate change "



SulNOx investors can make money
whilst decarbonising the planet TODAY!

SulNOx Main Product Range:

Patented, all natural fuel additives which reduce the production of harmful emissions whilst also offering users significant cost savings

“SulNOx products are made only from organic, biodegradable ingredients”



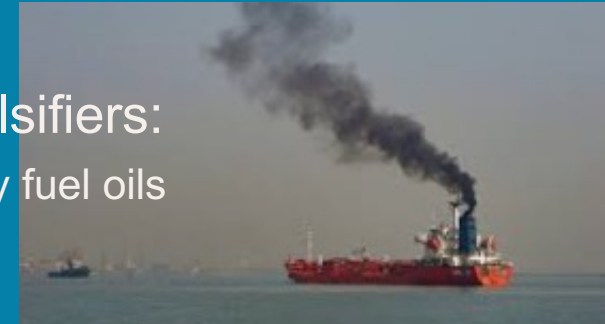
1. SulNOxEco™ Fuel Conditioners:

- ✓ Enhancing all diesel, petrol and biofuels, VLSFO and other lighter marine fuels



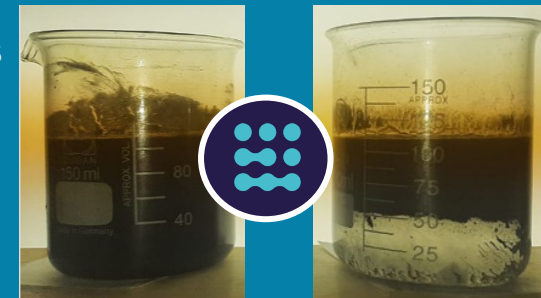
2. Berol® 6446 Heavy Fuel Oils (HFO) Emulsifiers:

- ✓ Reduced emissions, reduced costs for all heavy fuel oils



3. Oil Reclaimers:

- ✓ Turning costly “slops waste” into enhanced profitable fuels



Green from Concept to Combustion:

Guaranteed, Green Manufacturing

- ✓ Partnered with **EcoVadis Gold rated, Nouryon BV**, a Carlyle Group company, and global specialty chemicals leader to manufacture our products
- ✓ Unlike other fuel additives, **SuINOxEco™ Fuel Conditioners are not manufactured from waste refinery products**
- ✓ SuINOxEco™ Fuel Conditioners are complimentary to existing emissions reductions technologies and we encourage combinatorial, not competitive approaches
- ✓ No CAPEX investment required to begin immediate use meaning universal appeal and adoptability e.g. 18 manufacturing plants in North America alone

Nouryon



SulNOx helps to release the fuel's complete energy by offering:

1. Emulsifiers use free water in the fuel and fuel tanks / pumps / filters etc. to improve combustion and fuel stability.
2. Additional oxygen to the fuel upon combustion.
3. Surfactants and Detergents: Cleaning away deposits e.g. on injectors and pistons.
4. Improved lubricity meaning healthier, more efficient engine parts.

“Increased surface area of fuel + increased oxygen = cleaner, more efficient combustion”



Impact from surfactants and detergents

- ✓ Decarbonization of pistons and O-rings and injectors
- ✓ Reduced fouling of ignition, diesel filters and fuelling components

**Injector Nozzles
Pre and Post SuINOx**



Normal



With SuINOx



Normal



With SuINOx

SulNOx Financial Benefits:

10% Cost savings using SulNOx:

- ✓ Reduced fuel consumption ca. 8-10%
- ✓ Reduction in maintenance costs c. 2%
- ✓ Reduction in fuel storage costs

- ### Improved Engine Performance & Health
- ✓ Detergents and surfactants **increase fuel lubricity**, reducing engine wear

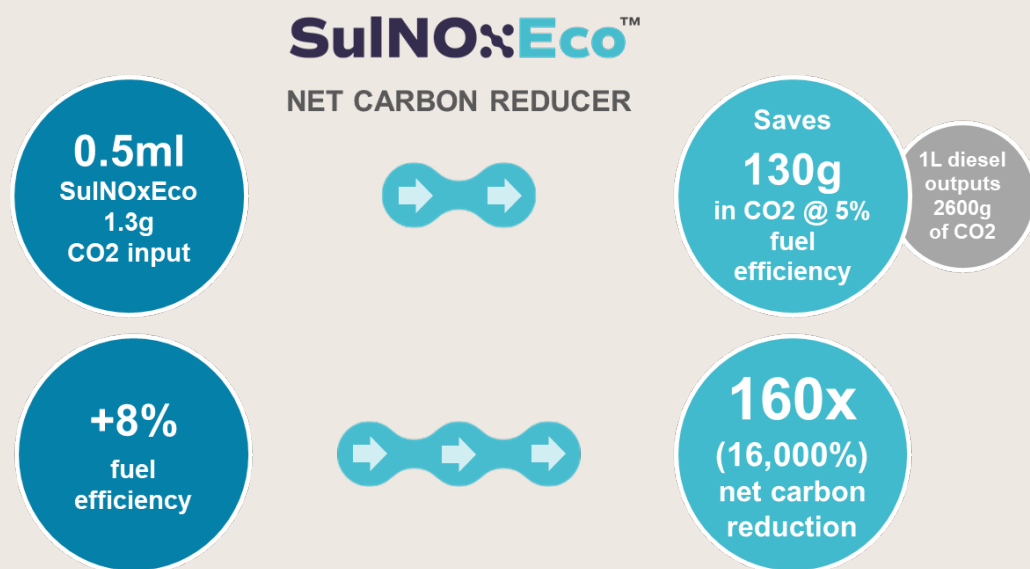
- ### Certified: No Warranty or Compatibility Issues
- ✓ Diesel-Certificates-EN-590 and ASTM D975
 - ✓ Gasoline-Certificates-EN-228 (E5, E10) and ASTM D4814
 - ✓ Biofuels–Certificate-EN-16709 (B20, B30)
 - ✓ Marine fuel certification- Marine Gasoil, Marine Diesel Oil and VLSFO – ISO 8217

“Combined benefits allow consumers to realize an overall reduction in operating costs by c.10%”



Environmental and Health Benefits with Significant Carbon Return on Investment

- ✓ Reduced fossil fuel consumption
- ✓ Significant reduction in greenhouse gas emissions, NO_x, SO_x, CO & CO₂ output



“The amount of emissions depends on the quality of combustion“



Particulate Matter Reductions:

Emission	Baseline (mg/m ³)	SulNOx (mg/m ³)	Change
PM 10	12.2	5.7	-53%
PM 2.5	10.6	4.1	-61%

- ✓ Decarbonisation - less smoke, soot and harmful particulate matter (PMs)
- ✓ Improvement in overall air quality



...Potential for Financial Benefits from Carbon Credits and Scope 3 reductions

Market Opportunity – Real World Examples (UK prices April 2022)

Haulage Customer

Fleet size: **27 Trucks** (c 8mpg)

Fuel Savings: **8% per annum**

Fuel Savings per truck: **c.£5,100**

Total Cost of SulNOx: **c.£7,000**

Net Fuel Savings per fleet:
c.£130,700

ROI: **>1867%**

>190 Tones of CO2
Reduction from fleet per annum



Global Opportunity: c.14 million
Trucks = £3.6bn revenue

Public Transport Customer

Fleet size: **98 Buses** (c 13 mpg)

Fuel Savings: **9% per annum**

Fuel Savings per bus: **c.£5,600**

Total Cost of SulNOx: **c.£29,000**

Net Fuel Savings per fleet:
c.£548,800

ROI: **>1892%**

>310 Tones of CO2
Reduction from fleet per annum



Global Opportunity: c. 3 million
Buses = £0.9 billion revenue

Shipping Evaluation

Single Panamax container ship:

(Very low sulphur fuel oil currently used)

Fuel Savings: **8% per annum**

Fuel Savings per ship: **USAGE:**
300 metric tons per day, 300 days per
year, VLSFO (£700 per ton). 8% saving.
£6.4m per annum, per ship.

Total Cost of SulNOx per ship:
c.£425,250

ROI: **>1405%**

>221,130 Tones of CO2
Reduction from fleet per ship



Global Opportunity: c. 62,000
vessels = £2.6 billion revenue
(assuming 43k per ship)

Why Invest?

Market Opportunity for existing SulNOx products is >70% of every barrel of oil:

- **Instant ESG enabler:** Every diesel, petrol, heating oil, heavy fuel oil, and biofuel user on the planet can benefit from using SulNOx
- **High barriers to entry:** Cutting edge ultrasonic technology allows bespoke products and global appeal
- **Patented in >70 countries** with diversified and significant opportunities in multiple sectors
- **New Products for launch and new processes in development** including:
 - Oil reclamation and Pyrolysis (plastic / tyre recycling)
 - Novel foods and botanical extracts and
 - Food emulsifiers

c.100 million barrels /day

45% Petrol

25% Diesel

2% HFO

Significant Client Pipeline with increasing revenues and commitments:

- **>750 client engagements** – growing daily including significant, household names (e.g. Tarmac) and national champions
- **>50 sales organisations and introducers operating globally**
- **High Margin, repeat revenue product** for some of the world's biggest hydrocarbon users
- **Multiple revenue streams:** Available on Amazon retail platform to diversify revenue opportunities

SulNOx model:

- **Outsourced manufacture of products**
- **Outsourced global sales and distribution networks**

Low Costs (c.£1.5-2m) with outsized, repeat revenues from diverse sectors and geographies (market opportunity £Billions)

SulNOx | *The first step to net zero:*

*"The scientific community has made clear that the scale and speed of necessary action is greater than previously believed. **There is little time left...** Responding to the climate crisis will require significant short-term global reductions in greenhouse gas emissions"*

President Biden

...SulNOx provides an immediate (now in 2022 not 2030), cost saving solution to dramatically reduce CO₂ and other toxic emissions caused by burning hydrocarbon fuels



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