

Integrated Solutions For smarter Energy, Environment & Clean Fuels Management



Ailabouni
Technology solutions

Who we are

Engineering Solutions

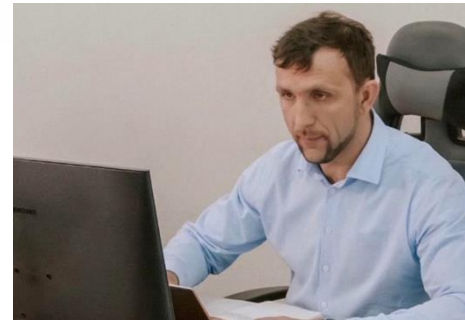
We are a team of experts with the mission to design innovative technology for a sustainable world

15 years

of innovation and
expertise

100+

projects in various
industries



**Own
production site**

where we bring
ideas to life

100+

teammates

12

Exclusive product

R&D Lab

where we invent



What we do

Our Products

Hydrofuel technology

Diesel desulfurization
technology

Waste-to-Water solutions

Water desalination
equipment

Generating electricity from
Earth's gravity

Wind power generation
equipment



Work on one of the hydrofuel stations for a power generation station in the Middle East with a production capacity of 300 tons per hour.



Our Focus

Our unique technologies

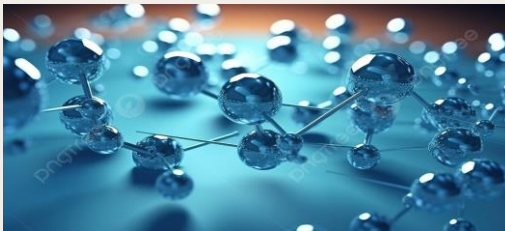


*We focus on sustainable management of resources,
a circular economy, and a cleaner world*

Hydrofuel technology

Clean new fuel

Incorporating water into the fuel leads to optimal combustion results, a cleaner environment, longer engine life, and less maintenance



Desalination and Brine Management

Create new water

High-quality water created from local resources for sustainable water supply to serve communities and industries



Generating electricity from Earth's gravity

Free clean energy

Obtaining free energy from Earth's gravity is no longer impossible, we are working on it





TECHNICAL SOLUTION

**To produce hydrofuel, an
environmental alternative
to regular fuel**

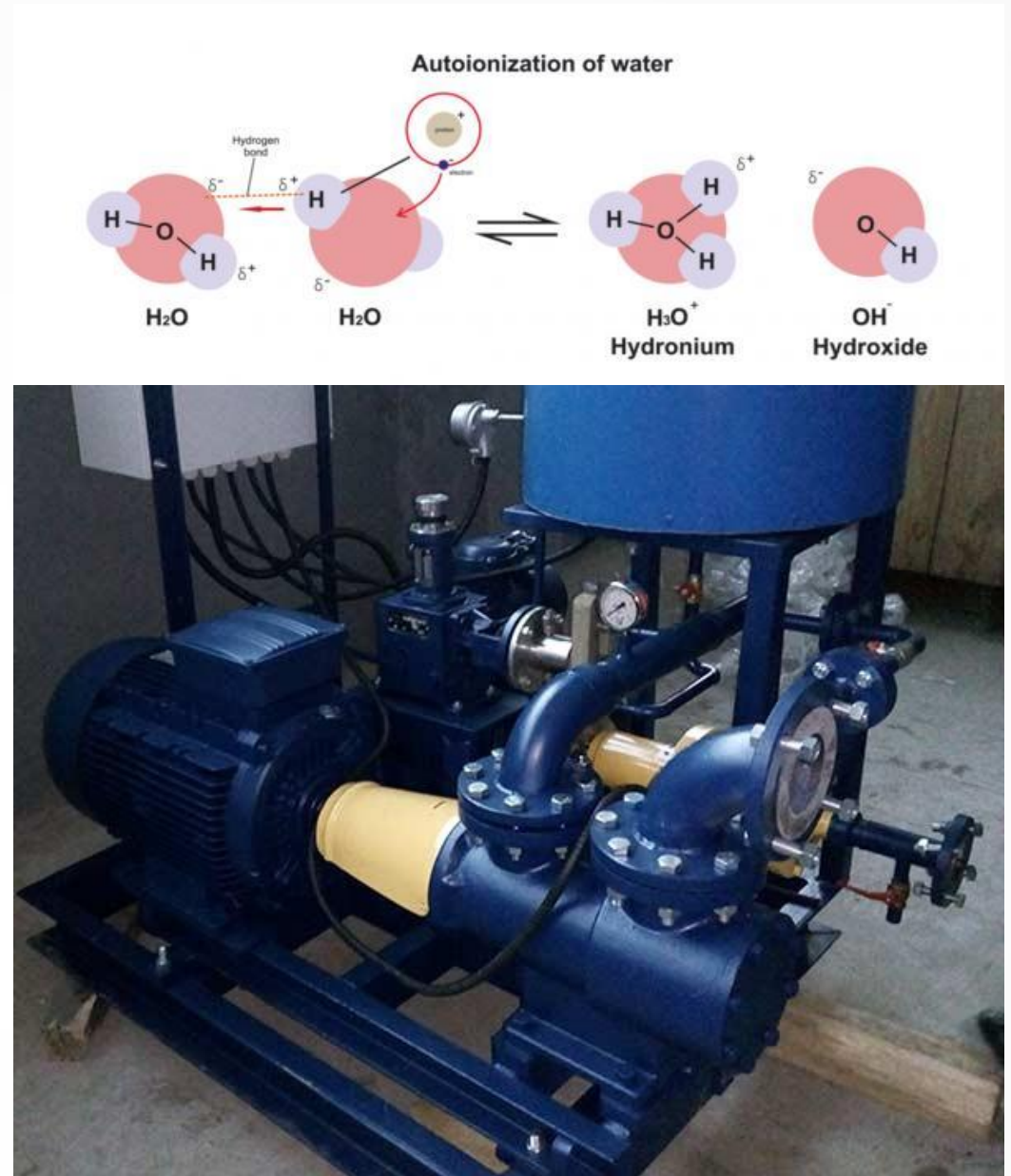
Core Technology

Our company has more than 15 years of experience in combustion optimization in the energy industry. Our mission is to combine environmental benefits with increased efficiency..

Increasing the environmental efficiency of boilers, diesel engines, ships and power plants
Allow our customers to contribute to reducing greenhouse gases while saving operating costs

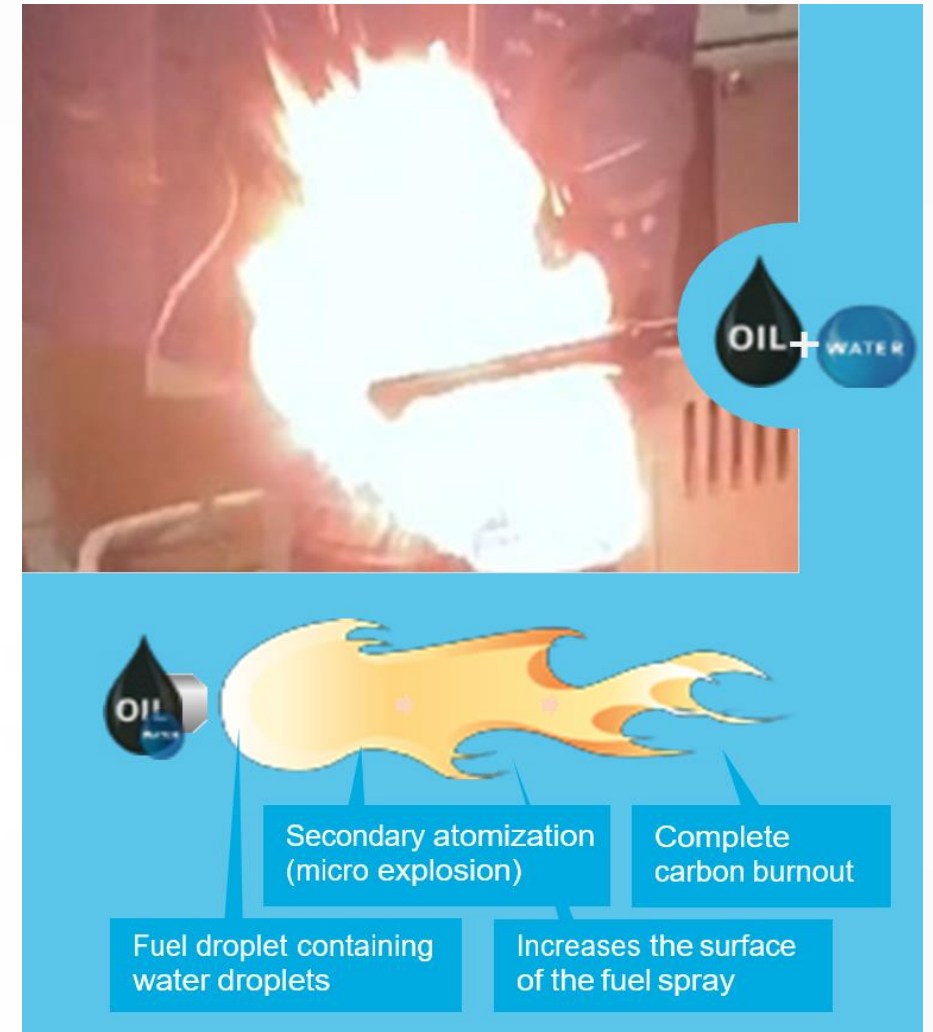
A real win-win solution!

Stable water-in-oil emulsion to increase combustion efficiency



We are different from all others

- **Improving oil properties**
(increasing the yield of light oil products up to 10-15% for heavy oils)
- **Hydrofuel production**
(increased combustion efficiency compared to normal product whose water content reaches 30%)
- **Superior profitability**
In addition to improving consumption, you can now save up to 30% of fuel because the water will burn like fuel



Our goals and priorities

The environment is our first concern

The table shows the difference between emission tests before and after adding water
With several levels of water quantity

TEST RESULTS

Experience Ne1: Fuel – heating oil

Exhaust T, °C	Outdoor T, °C	<u>CO₂</u> , %	O ₂ , %	FOC <u>bruto</u> , %	FOC <u>netto</u> , %	co, ppm
142,5	28,0	13,2	1,3	89,6	94,7	162

Onbit Ne2: Fuel – fuel oil

Exhaust T, °C	Outdoor T, °C	<u>CO₂</u> , %	O ₂ , %	FOC <u>bruto</u> , %	FOC <u>netto</u> , %	co, ppm
233,2	27,8	9,2	10,1	81,4	86,7	30

Onbit Ne3: fuel – fuel oil +10% water

Exhaust T, °C	Outdoor T, °C	<u>CO₂</u> , %	O ₂ , %	FOC <u>bruto</u> , %	FOC <u>netto</u> , %	co, ppm
151,1	27,8	7,0	11,6	84,3	89,7	10

Onpit Ne4: fuel – fuel oil + 15% water

Exhaust T, °C	Outdoor T, °C	<u>CO₂</u> , %	O ₂ , %	FOC <u>bruto</u> , %	FOC <u>netto</u> , %	co, ppm
172,5	33,3	8,1	10,2	84,6	89,5	28

Onpit Ne5: fuel – fuel oil + 20% water

Exhaust T, °C	Outdoor T, °C	<u>CO₂</u> , %	O ₂ , %	FOC <u>bruto</u> , %	FOC <u>netto</u> , %	co, ppm
163,4	33,3	8,9	9,0	86,0	91,2	16

Environmental benefits

In terms of environmental benefits, hydrofuels are one of the alternatives to basic fuels such as oil. It can be used in unmodified diesel engines and can reduce nitrous oxide emissions by approximately 35% because the water in the hydrofuel lowers the local flame temperature. In addition, since hydrofuel burns more thoroughly, particulates generated by the combustion process can be reduced by approximately 60%. Therefore, hydrofuel reduces the possibility of environmental pollution



We focus on priorities first

Waste Water Treatment Products



Deaerated water distillate:

Salinity: 1 - 5 mg/dm³

Silicon: < 25 mcg/ dm³

Iron: < 40 mg/ dm³

Oxygen: < 20 mcg/ dm³



Crystallized salt:

- used in the chemical industry
- NaCl used for Na-cation filters regeneration



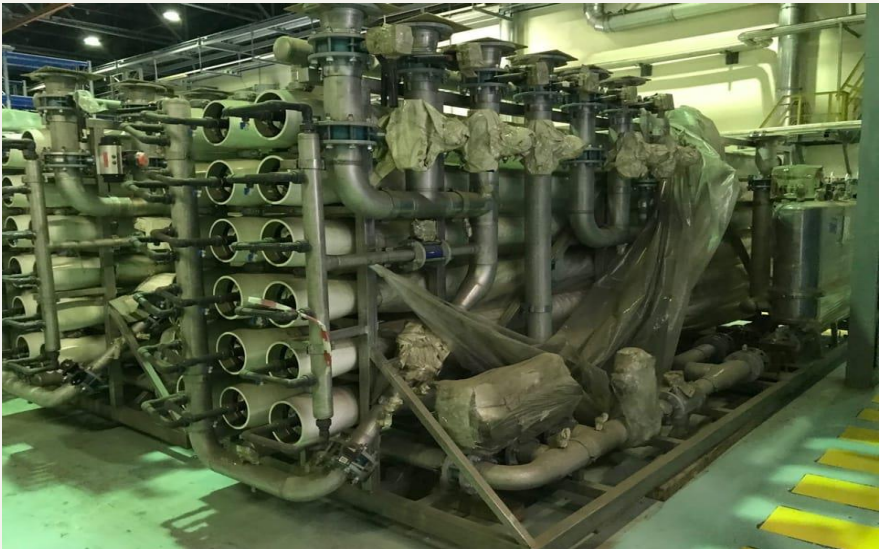
Sludge

with calcium sulfate,
calcium carbonate and
magnesium hydroxide



Advantages of our technology

Economic Benefits



TOTAL COST OF OWNERSHIP 1, 8 – 2, 5 TIMES LOWER THAN EQUIVALENTS

Unit capacity
1 m3/h – 200 m3/h

Steam Consumption
0,07 – 0, 15 t/m3

Minimal chemical reagents

Intake water of any quality and salinity

Energy of low parameters
(low pressure steam, flue gases)

Compact vertical design and minimal footprint

Energy Recuperation

Low OPEX
Ease of operation

CAPEX
2,5-4 times lower

The customer is always the focus

Our strategy

Our company's business strategy is to identify and provide reliable technological solutions to producers and suppliers to meet their requirements and meet the challenging needs of our customers.

Understanding our customers' requirements and challenges is essential so that we can develop original services, methodologies and solutions that add value.

We look at the challenges our clients face from multiple angles, pooling our knowledge and resources to develop professional services that are designed to meet their ever-changing requirements. Our success depends on the success of our business partners and customers resulting in a win-win situation.



Which we do

We use our maximum capabilities in development and cooperate with many inventors around the world so that we can always provide the best

Our company leverages the unique experience of our team and diverse business relationships to provide our customers with a professional and reliable supply of unique equipment that meets their needs at highly competitive prices compared to the results our products can achieve.

Calculated guidelines and stringent performance standards are used in selecting projects, partners and clients with an emphasis on risk management, ethics, integrity and professionalism.

Ecological and Economic Impact

Sustainable nature development

Reducing the risk of environmental pollution and global warming

Care for the environment

Cut on the emissions, mitigated risk of contamination



Cost-efficiency and Energy recovery

Using advanced energy technology to meet production needs, reducing overall energy consumption

Reducing energy drain

Clean, high-quality fuel is produced from natural resources, and up to 30% of energy can be returned to the production cycle reducing overall resource consumption.

What's in store for us?

Projects under development and testing

We have a lot of genius projects that we are working on

One of the most important of them is an engine to generate electrical energy based on the Earth's gravitational energy and without any fuel

This project is under testing and will see the light soon and will be a real revolution in the world of free, clean energy

In addition to many of the unique technologies that are currently working with us, such as removing sulfur from diesel and much, much more

**We would be Glad for your service and are ready to answer your inquiries
and We discuss your requirements and provide you with appropriate solutions**

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