

DIALLO
WE VALUE THE ENVIRONMENT

1. Value the Environment

A commitment to you and the environment

2. Solid Waste Treatment

With renewable energy generation and clean water

3. Wastewater Treatment Modules

With production of alternative fuels and power generation

4. Water Generators of the Atmosphere

Generators of large-scale water from air and moisture

5. Tire Recycling Plant

With production of alternative fuels and power generation

6. Sludge and Oils Treatment Plant

With production of alternative fuels and power generation

7. Power Plant-Container

With energy generation through crude oil

8. Electric Buses

Who we are?

Since its foundation, our Holding has been guided by the idea of promoting advanced and innovative technologies that will help turn waste into renewable energy, helping to reduce harmful emissions to our planet.

Over the years, we have seen repeatedly that the most valuable resources are the health of the people and the health of the environment. That is why we believe it is our duty to help take care of these valuable resources, by providing high-quality tools and technologies and to motivate as many people as possible to join our cause.

To this end, we only offer equipment that meets the highest European environmental and safety standards. In addition, after carefully studying the regulations and requirements of various countries and regions, we help implement the technology to meet the regional and industry standards of health, safety, and environmental protection.



20	15	800 MW/h	0%	+120 m³/m	+1 200 Mll.t/y
Countries	Plants in Operation	Renewable Energy	Emissions and Pollution	Wastewater Treatment	Solid Waste Treatment

High Reliability Partners



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A committed team

A focused team helps capture the needs of each country or business, guiding them to reach the core of the issues and formulating a solution that helps solve those core problems.

We understand the customers' needs

It is essential to build a working relationship with our partners based on trust. In order to be able to go above and beyond, we have developed a cooperative program that enables us to solve the needs and desires of our partners.

One-on-one solutions

We focus on generating solutions tailored to each of our clients. Whether it be a country or a corporation, we study the environment they operate in, plan and implement a holistic process, in order to address all the identified areas of work in every step of the project.

Quality and support through the process

- Financing.
- Full-Cycle Sales Support.
- Induction all staff.
- Connection to high voltage networks.
- Construction and commissioning.

Permanent innovation

We have worked with specialized engineers for over 20 years that have been pioneers in the field of environmental innovation.

A commitment to you and the environment that helps bear fruits for the future.

Management Team

Our Directors

A team of managers with a global vision



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*A team with a global vision and
commitment to help the environment*



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**PROJECT MANAGEMENT
AND OPERATION**



**GERMAN AND RUSSIAN
MANUFACTURING**



**INSTALLATION
AND
SET-UP**



**HELP WITH
PROJECT FUNDING**



GERMAN DESIGN



TECHNICAL SUPPORT



**TECHNOLOGY
MANAGEMENT**



**TECHNOLOGICAL
INNOVATION**



**MORE THAN 15
YEARS OF
EXPERIENCE**



**STRATEGIC
PARTNERS**

Operational Management Model DIALLD

We have representatives and collaborators all over the world, having full command of various languages.

Our engineers and work team allow us to meet the needs of our clients in an effective and efficient way, offering both technical and legal advice.

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DIALLD – means **recovery and conversion**. We integrate technologies and processes for the handling of different waste streams in a **Waste Conversion Center**. Our task alongside **Recycling**, is to maximize the **Production of Electricity**. At the same time, we **Avoid Emissions, Sanitize Water, and Eliminate Landfills**.

Our Waste Conversion Center can be designed for the recovery of the following types of waste:

- Aggregated Municipal Waste
- Sewage sludge and wastewater of septic tanks
 - Tires, wood waste, and bulky garbage
 - Reduction and restoration of landfills
 - Hospital waste and specific toxic waste
- Supermarket waste, expired food, waste from gardens and parks
 - Commercial waste and light industry waste
 - Floating waste

Our plant can handle from 120,000 to 1,000,000 tons of waste per year, producing energy from 10MW/h up to 100 MW/h as well as clean water as a byproduct.

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Wastewater Treatment Modules with Energy Generation – designed for wastewater treatment of cities, settlements, industries, mining operations, sewage, and organic livestock farms. It modernizes and improves existing wastewater treatment plants using cogeneration systems (electric and thermal), and helps produce alternative sources of highly energetic fuels.

The advantage of this technology is that it operates completely with both wastewater and other liquid waste. Environmental Pollution is avoided in the entirety of the process. Fertilizers, alternative fuels, and electricity are obtained from the purification process of solids.

More advantages of Waste Treatment Modules with Electricity Generation:

- High degree of purification and disinfection
- High stability to prevent overloads of wastewater, biological and toxic substances
 - Continuous sterilization of wastewater
 - Creation of safe and highly-energetic fuel
- Compliance with ISO 2001 and ISO 14001 Standards

Types of Modules → **10, 50, 100, 300, 500, or 2500 m³ of wastewater per day.**

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Modular equipment for the Production of Premium Class Water (High-Quality)

The final product is created from the condensation of atmospheric humidity, after a purification process of 16 steps.

Minimum performance module → 5000 Liters per day (24 hours) ~208 Liters/Hour.

It is possible to include other modules in parallel to produce even more amounts of water and increase productivity

1 Module = 5000 Liters per Day, **2 Modules** = 10,000 Liters per Day, **3 Modules** = 15,000 Liters per Day

Quality of Water Produced

The modules produce water with a pH of 8.5 (slightly alkaline), which is known to contain antioxidant properties that **help prevent many diseases** such as: cancer, osteoporosis, arthritis, heart disease, allergies, eczema, urticaria, asthma, stones, and arteriosclerosis. Also, it helps prevent early aging, lack of energy, and headaches, whose causes originate from an accumulation of acids in the body.

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Tire Treatment Plant – an impressive solution for the treatment of almost any type of plastic or rubber waste, which helps recover valuable raw materials using the Thermolysis process.

The processing of rubber, plastic, and bitumen is a big problem for society today and the future. Most of this waste is burned or buried, which has harmful and contaminating consequences.

Until now, no one has analyzed the real potential of reused rubber materials. With Thermolysis, we are able to create new petroleum products and carbon black.

The process involves strategically applying intense heat to the materials to catalyze chemical decomposing of the materials and activate chain reactions. As a result, the final product is divided into the following materials:

Solid (coke, carbon black)

Liquids (oil thermolysis of different density and composition)

Gas (non-condensing with a caloric value of 44MJ/M3)

The essential element of the reactor is the high atmospheric pressure (50 mbar) and the controlled Thermolysis process that allows for the separation of the raw materials in order to destine their future use as valuable by-products.

Emissions generated by the burning of the gas from the generator are carefully monitored to comply with European environmental standards. Thermal energy is also obtained through the water cooling system installed, which allows for electric and thermal production.

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DIALLD offers Finnish technology and equipment for sludge and oil processing. Finnish work teams do not depend on sludge and oil type fractions – oil refining waste and the processing of oil. In general, it is accepted that the annual average of 5% of the billing increases, due to the treatment of this waste. Existing recycling techniques are costly and limited by numerous factors, for example, can operate with a specific type or fraction of specific sludge, the technological development strategy DIALLD plans to create a network of suppliers for the treatment of sludge mixed oil after the extraction of oil for use in all markets.

DIALLD is seeking investors and clients for mutually beneficial cooperation in the field of elimination of environment problems – the disposal of waste oils.



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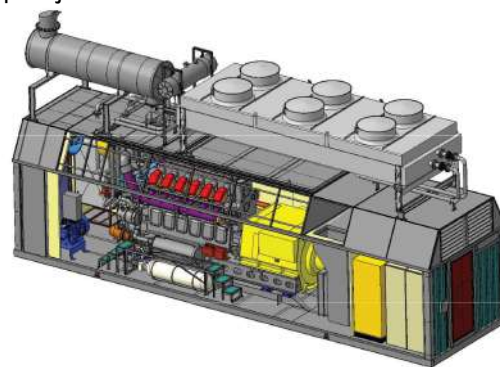
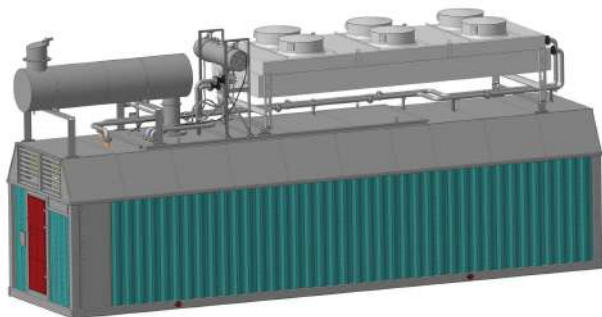
Proposal for the design, manufacture, construction, installation and commissioning of the power plant (ESN), is carried out based on the technical requirements of the client with the experience in construction of similar plants in different regions of the Russian and German Federation. The power plant is designed to supply electricity to consumer customers.

Fuel for the plant (ESN) is crude oil (the customer will agree on the applicability of fuel to the engine manufacturer).

The Power Plant Container meets the international standard of the environment with zero emissions.

The technical solutions can be changed and adjusted, in the development stage of the design and construction documentation.

This technical proposal is provisional project information, the price and the services presented therein, can't be represented as terms of reference or as part of the project documentation.



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The concept of the new electric bus developed with the participation of MSTU specialists. Bowman, who along with the design of the “GAZ Group” center have been working to determine the energy balance and optimal modes of machine movements in the routes of the Russia Capital.

To create a traction and software solutions, we worked with the company Siemens and its innovative technology.

Maintaining an elevated level of unification of the electric bus along with a model line in Likino Bus “GAZ Group” of the plant, allows achieving maximum economic efficiency for the company.

The electric bus is designed to carry up to 90 passengers and has 27 seats with the possibility of obtaining three seats for passengers with disabilities. **The machine meets the international standard of the environment with zero emissions**, which is characterized by the total absence of emissions harmful to the atmosphere. The electric bus has a metal structure with improved corrosion resistance characteristics, obtained through the use of cathodoprotection priming technology.

The electric bus is equipped with lithium-manganese batteries, which has a high energy and increased resources – up to 5000 charge/discharge cycles, which increases the daily mileage of the bus to 200 Km using modular solutions for the load. The application of this decision implies a long charge of the electric bus, which would be performed at night, with two or three short recharging for 20-30 minutes, in the electric bus route variables.



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