



AQUORA

True technological innovation exists only when it is on the basis of **sustainable economic development**. For this reason, we make a daily effort to study and create solutions that are respectful towards planet Earth, acknowledging that regeneration, today, represents the ultimate “challenge”.



Global Solutions

AQUORA is an international environmental technology company supplying the Multi-Billion Dollar Recycling and Energy Sectors with their environmental technology solutions. We specialize in the recycling of hydrocarbon-contained waste plastic, tires, and the treatment of contaminated effluents produced by the oil and gas industry by developing and implementing transportable, on-site, modular pyrolysis systems, which incorporate hydrocarbon recovery and recycling technologies with the ability to generate power with our resulting products. Our proven executive and operations teams are based in the United States, Ukraine, and the European Union.

Our team and subsequent capital allocations are dedicated to acquiring high-quality income-producing predictable long-life environmental assets with facilities in the regions they service, either via capital investment or licensing arrangements.

We are currently focused on partnership and investment opportunities in the United States.

Providing the recycling and energy industry their environmental solutions

We specialize in providing modular technology systems to the Billion Dollar Oil and Gas Environmental Sectors and build treatment plants at both a national and international level. We provide fully transportable, cost-effective, and innovative technology solutions.

We are focused on global partnerships and manufacturing opportunities in the treatment of waste hydrocarbons. We manage every aspect of converting waste hydrocarbons to energy and treatment of the residue products to environmentally friendly tailings.





Existing
products

PYROLYSIS MACHINES	SEWAGE TO ENERGY	BIO CLEANSE
Oil sludge	Own effective flocculant	Five types of oil-consuming bacteria
Used tires	Reduction of treatment from 3 years to 3 weeks	Contaminated soil treatment
Waste plastic	Preserve hydrocarbons in the product	Oil tanks treatment
Waste Utilization	Fuel pellets from the final product	Pipes treatment
Energy generation	Energy generation	Environmentally friendly



MANAGEMENT AND BOARD

ANDREW OSICHNUK
CEO, DIRECTOR
PRESIDENT

ALEXANDER DEKHTYAR
CHAIRMAN
DIRECTOR

ALEKSEJS GRISKOVECS
COO
DIRECTOR

VADIM GURMAN
CHIEF TECHNICAL
OFFICER

YEVGENIY GRINBERG
CHIEF FINANCIAL
OFFICER

ANATOLY DEMCHENKO
CHIEF SCIENTIFIC
OFFICER

DAVID BERNARD
CHIEF MARKETING
OFFICER

DANIEL MCGILL
CHIEF INNOVATION
OFFICER

ANDREW OSICHNUK

Mr. Osichnuk has an entrepreneurial, financial, and banking background. He started a new business in the EU, creating a computer manufacturing and assembling plant called Atakam. He moved to Los Angeles in 2002, where he founded a computer service and telecommunication company called Atakam, Inc.

As a co-founder of Krona Health, he is one of the developers of the global business strategy of the company.

He was a founder and a vice-president of the Central European Bank and worked with the administration of the President of Ukraine. From 1995 to 2000 worked with financial institutions in Zurich, Budapest, and Prague to raise funds for projects in Ukraine, Russia, and Canada.

Mr. Osichnuk In 2013 he formed a supplement distribution company called Asterforce, Inc., and in February 2015, he co-founded Krona Health, Inc. and Dialogue Key Inc.

Mr. Osichnuk has a Master's degree diploma in Philosophy and a Master's in Philosophy and Philosophical Discipline Pedagogy and he taught philosophy at Kyiv's State University He received a second Master's degree in applied mathematics and computer science in 1996 from the Ukrainian National Technical Academy, Kyiv.

ALEKSANDER DEKHTYAR

Mr. Dekhtyar is a business development specialist who has in excess of 20 years of experience in finance and business. He brings a wide variety of strengths to the table that includes strong international management and financial expertise. Mr. Dekhtyar also previously worked as a licensed commodities broker, trader, and advisor. Mr. Dekhtyar also has extensive experience in the management of start-up companies, including fifteen years specifically in finance.

Mr. Dekhtyar was President of Avalon Capital Holdings Inc. that specialized in software development for banks and financial institutions. In this role, he expanded the business to three continents including Asia, Europe, and South America.

ALEKSEJS GRISKOVECS

Radio electronics engineer. In 2012, he founded and headed the company Alex Group Latvia - plastic products manufacturing plant. In 2015, he founded and headed the IPEC (International Power Ecology Company) producing pyrolysis equipment for the disposal of petrochemical industry waste. In 2018, Aleksejs founded and currently heads the Pyrolysis Technology Group (PTG) company for the production of pyrolysis equipment for the disposal of petrochemical industry waste.

VADIM GURMAN

Vadim Gurman worked on a space launch location in Kazakstan City Leninsk. Two years managing a team of 90 people that were doing construction of the civil infrastructure around the space station. Then worked at Project Institute Giproselimazh. From 1980 to 1991 worked in the field of setting up infrastructure for the oil and gas industry (private contractor). Came to the USA in 1991. Worked in investments and analytics. Self-employed 1992- 2001. In 2001 opened a business and real estate brokerage company. Has extensive experience in managing all business processes and escrow business till today. Has extensive experience in negotiations of finding business opportunities, mergers, and acquisitions. Graduated as a Civil engineer from Civil Engendering Institute (1975)

YEVGENIY GRINBERG

Mr. Grinberg is a licensed California CPA. He moved to Los Angeles in 1994 and worked as an accountant for multiple Los Angeles-based corporations for a few years. He has an engineering degree in aviation technology from Moscow State Aviation Technological University (1984) and accounting certification from the University of California, Los Angeles (1998). In 2010 he founded Yevgeniy Grinberg, CPA accounting practice that provides tax preparation, planning services, retirement, payroll, and bookkeeping for small businesses, individuals, estates, and trusts. His practice's foundation is transportation corporations and corresponding professionals, but with the growth of his clients and their families, he is now serving several industries beyond the transportation field including legal, real estate, medical/dental, trading, insurance, and consulting.

ANATOLY DEMCHENKO

Currently, Mr. Demchenko is the head of the Department of Medical Chemistry at the Institute of Pharmacology and Toxicology of the National Academy of Medical Sciences of Ukraine, as well as a professor at the Department of Chemistry and Pharmacy Nizhyn Mykola Gogol State University. He is a scientific advisor and a partner in Atakam, Inc., USA. I have a total of over 370 publications and 152 patents.

Mr. Demchenko is a specialist in the field of organic synthesis, the chemistry of heterocyclic compounds, pharmaceutical, and medicinal chemistry.

In 2004, he was awarded the academic title of professor at the Department of Chemistry (PR certificate no. 003145).

In 2001 he has defended the doctoral (PhD. Sci.) thesis (specialization: pharmaceutical chemistry and pharmacognosy) (diploma DD No. 001860).

In 1986 he has defended his Ph.D. thesis. Specialization: Organic Chemistry. Diploma KhM No. 016170.

Education: in 1980 Mr. Demchenko have been graduated with honors from the Faculty of Chemistry at Kyiv State University. T.G.Shevchenko (now Taras Shevchenko National University of Kyiv)

DAVID BERNARD

Mr. David Bernard began working with public companies in 2005 when he purchased Equities Magazine, at which time Equities was on the verge of bankruptcy with only 1700 subscribers.

As CEO, Mr. Bernard grew the circulation to over 900,000 in just 5 years and had subscribers in 101 countries. During this time Mr. Bernard hosted and produced multiple investor conferences in California, New York, London, and Milan. During his ownership, Mr. Bernard produced many conferences at the NASDAQ Marketsite and the London Stock Exchange.

In 2009, Mr. Bernard started building equities.com as CEO and Founder. He grew equities.com to over 500,000 daily users and it still flourishes today. David sold Equities Magazine 120 times what he paid for it and also successfully sold equities.com in 2015.

Since 2015, Mr. Bernard has consulted with numerous small-cap and start-up companies.

DANIEL MCGILL

Mr. Dan McGill began his professional career as Field Engineer, at Ingersoll-Rand Company, Pump Condenser Division, Phillipsburg, New Jersey, after being conferred his B.S. degree in Mechanical Engineering, in 1972. From 1972 through 1999 McGill remained in the fluid handling industry, in various capacities, until he accepted a position as Plant Engineer, at Paradise Peak Mill Mine, Gabbs, Nevada being appointed General Manager, in 2007.

In the capacity of General Manager, Paradise Peak Mill Mine, McGill was responsible for an ongoing corrosion control program, completion of remaining portions of reclamation of the mine site, and exploration of potentially economically viable minerals and metals, as well as day-to-day operations.

Initially relying on contract exploration geologists McGill developed an alternative exploration program for Strategic Metals, circa 2007, predating the current intense interest in domestic Strategic Metal exploration. Together with co-founder, Strategic Metals Consulting, LLC was created to expand a technologically superior exploration methodology for the discovery of minerals and metals, employing proprietary Machine Learning, or Artificial Intelligence, algorithms. First Principle Theories, LLC was created as a mechanical design consultancy, in 2020 because McGill enjoys mechanical design work.



AQUORA ENVIRONMENTAL TECHNOLOGIES

- We believe in protecting our planet and assisting with its preservation for generations to come. We endeavor to develop, license, and enter into ventures that meet strict ESG criteria and as such we are seeking new, unique, and more effective solutions, processes, business tools, and models.
- Very often, these endeavors have a longer development lifecycle, but the genesis creates greater social value and context for discussion, for the planet and all its inhabitants.
- We subsidize research, development, and innovative technologies. Our activities involve transactions creating opportunities for an above-average profit.

AQUORA INVESTMENT CRITERIA

We are currently operating, reviewing investments and partnerships focusing on:

- recycling recovery of substances and energy from waste
- Sewage to energy
- catalytic technologies
- energy efficiency improvement
- Bio-cleaning of contaminated soil and equipment
- Innovative technologies for innovative energy generation
- use of resources from waste heaps
- by-products from combined heat and power plants
- sludge management



AQUORA'S PRIORITY AND GOALS

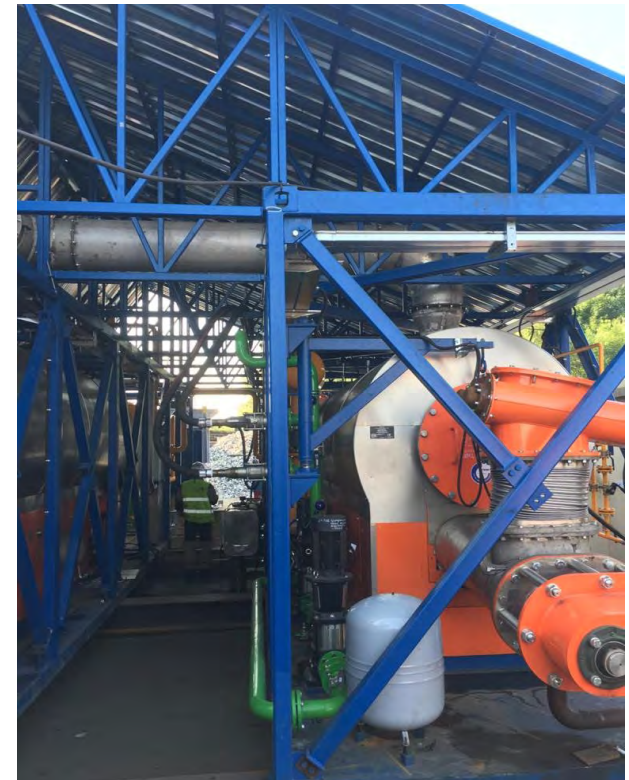
- AQUORA holds several technologies and patents in pyrolysis, recycling, energy generation, and bio-cleaning.
- The scientific and technical laboratory is the main priority of Aquora's activity. Within the framework of the interests of this laboratory, we aggregate global technologies and bring them into production via acquisitions, joint ventures, or exclusive licensing of the technologies.
- The growing utilization of rubber and plastics in industrial and consumer applications, combined with increased consumer awareness surrounding solid waste recycling, has led to an increased demand for recycled products. Waste tires are one of the fastest-growing types of collected rubber materials for recycling. ATAKAM capitalizes on the opportunities found in recycled synthetic oil, carbon black, and scrap metal with two main divisions: a Recycling Division and a Packaging Division.

AQUORA pyrolysis recycling solutions



The Thermal Decomposition Plant (TDP) is a set of equipment that provides thermal destruction (decomposition into low molecular weight components without oxygen) of oily waste with the production of pyrolysis gas, liquid boiler (pyrolysis) fuel (liquid fuel) and dry residue (technical soil). Technological equipment is controlled from the operator's control panel. To control the technological parameters of the equipment, control-measuring devices and automated process control system (APCS) are installed.

Our development, TDP (tires, plastic, oil) works by converting organic materials (hydrocarbons - including rubber, plastic, polyethylene, waste oil, etc.), through thermal degradation at temperatures above 400C, to produce combustible gas, carbon black, and liquid fuels for different purposes (fuel oil, gasoline, diesel fuel, solvent, etc.). This development is unique in its kind and allows us to obtain maximum benefits at a minimum cost.



AQUORA Thermal Decomposition Plant TDP-1



Our development, TDP-1 is our first pyrolysis machine designed in 2002. It works by converting organic materials (hydrocarbons – including rubber, plastic, polyethylene, waste oil, etc.), through thermal degradation at temperatures above 400°C, to produce combustible gas, carbon black, and liquid fuels for different purposes (fuel oil, gasoline, diesel fuel, solvent, etc.). This development is unique in its kind and allows us to obtain maximum benefits at a minimum cost.

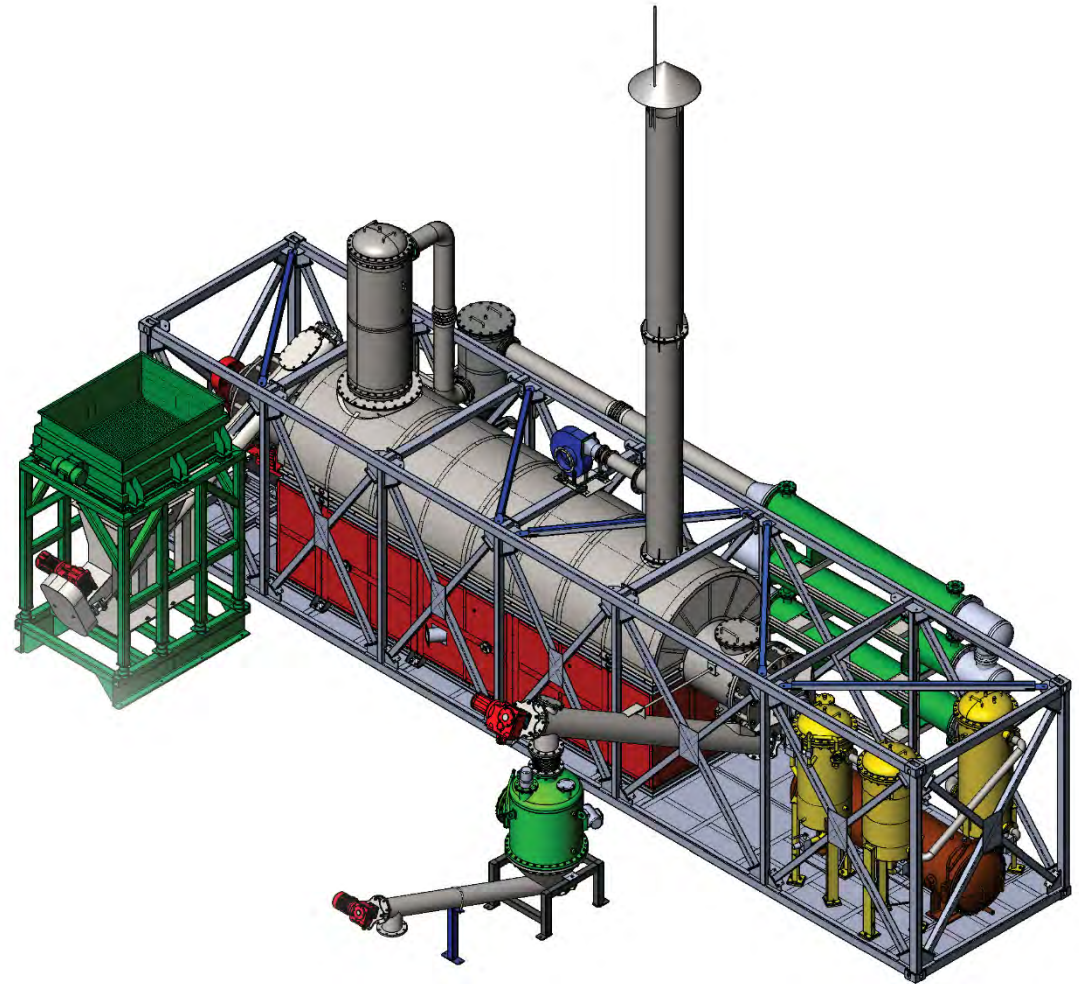
Process description:

- Processes up to 100% of the material, making it essentially a waste-free technology
- Processes 2 tons per day of feedstock (in case of shredding the raw material the load capacity could increase up to 3 tons and more)
- Produces several kinds of highly processed materials
- Consumes energy at a low rate of 5 kW
- Meets the criteria of air quality standards in the EU for residential zones with an environmentally friendly process that emits no harmful emissions into the atmosphere
- Requires a low-demand manufacturing and warehouse space
- Allows our production lines to be used with other manufacturing equipment
- Entails installation of the production line to simply be on open ground on any hard surface.

We've developed the process to derive the maximum volume of liquid hydrocarbon and carbon black. At a temperature of 450-550°C, we obtain the following products:

- 30-50% liquid fraction
- 15-20% pyrolysis gases
- 20-30% carbon black
- 10% steel cord
- Up to 100% of the feedstock is recycled.

AQUORA Thermal
Decomposition
Plant
TDP-2-800



- TDP-2-800

Parameter name	TDP-2-5000
Productivity on the processed raw materials, kg / h (lb. per hour)	Up to 1000 (2200) Depended to raw material
Operation mode	Continuous
Type of additional (starting) fuel	Boiler (stove) fuel Diesel fuel Pyrolysis gas Natural gas
Type of main fuel	Pyrolysis gas
Main fuel consumption, m ³ /h (ft ³ /h)	Up to 50* (1500)
Power consumption of the main process equipment, kW / h	Up to 20
Staff (production)	Per shift: 2 operators, 1 forklift driver
The minimum area to accommodate the main technological equipment, m ² (ft ²)	200 (2100)
Power supply, V	380 / 480
Phases, frequency, Hz	3P, 50/60

TDP-2-800

A brief calculation of the efficiency of TDP-800 in the setup of using waste tires as raw material and using resulting pyrolysis gas and pyrolysis oil for electricity generation.

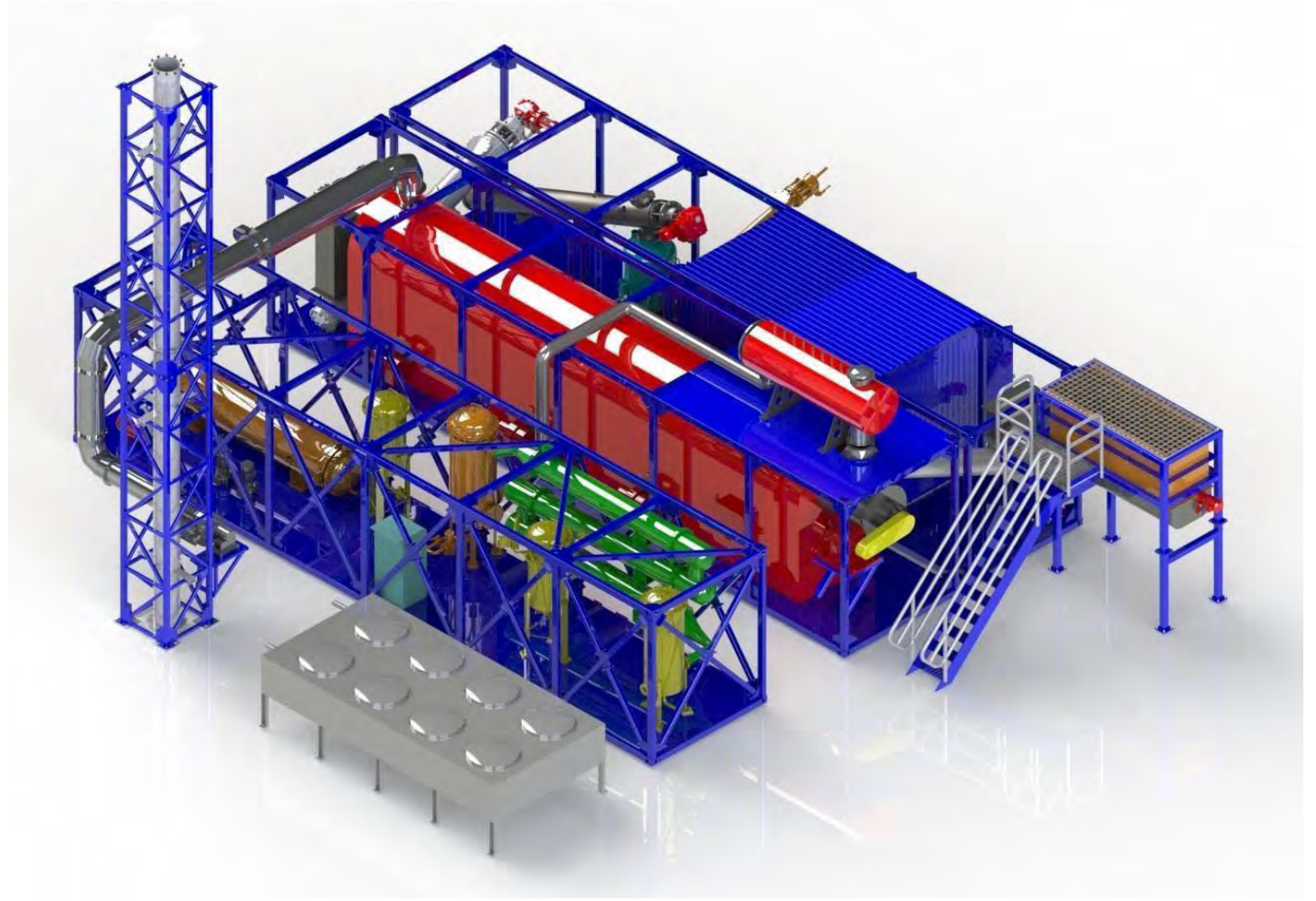
Short Form Balance Sheet for TDP-2-800 on site				
TDP-2-800	Expenses			
		Day	Month	Year
	Rent: 10000 sq.ft with yard \$0.6/sq.ft.	\$200.00	\$6,000.00	\$72,000.00
	Utility: electricity 20 KW \$.12 (California business)	\$57.60	\$1,728.00	\$20,736.00
	Utility: water, waste	\$20.00	\$600.00	\$7,200.00
	Wages: workers three shifts two persons on shift \$15/h	\$720.00	\$21,600.00	\$259,200.00
	Wages: Supervisor /office manager one shift \$18/h	\$144.00	\$4,320.00	\$51,840.00
	Wages: security \$15/hour	\$120.00	\$3,600.00	\$43,200.00
	Wages: Payroll tax expenses	\$81.67	\$2,450.16	\$29,401.92
	Office expenses: Internet, telephone, fax, materials	\$15.00	\$450.00	\$5,400.00
Insurance (full coverage umbrella insurance)	\$177.00	\$5,310.00	\$63,720.00	
Licenses renewal	\$5.00	\$150.00	\$1,800.00	
Depreciation : Recycling plant machine \$850,000 (our cost) / 12 years	\$196.76	\$5,902.78	\$70,833.33	
Depreciation : truck, tank, packing line, purifying equipment / 7y	\$45.00	\$1,350.00	\$16,200.00	
Meintenance/parts	\$20.00	\$600.00	\$7,200.00	
TOTAL:	\$1,827.27	\$54,818.16	\$648,731.25	
Unit price			\$850,000.00	
Other items one time purchase price			\$110,000.00	
TDP-2-800	Income from waste tires recycling			
		Day	Month	Year
	Production capacity (very differs for used raw materials), 10 tons a day (for waste tires)			
	The product after recycling is synthetic oil (40% of raw material waigh): Non-purified light oil / fuel oil #2			
	10 t/day * 0.4 = 4t. 4t * 6.84 = 27 barrels * \$100 =	\$2,700.00	\$81,000.00	\$972,000.00
	Carbon black (non purified) 30%. 10 t * 0.30 = 3.5 t a day. \$50/MT	\$150.00	\$4,500.00	\$54,000.00
	Scrap metal 10%. 10 t * 0.1 = 1t. \$100/MT.	\$100.00	\$3,000.00	\$36,000.00
	350m ³ / hour of gas. In a normal cycle, 200m ² is used for processing. Alternatively, all gas can be used with an electric generator (if the liquid fraction is partially used for self-heating). It can produce approximately 1 MW of electricity. It is 24 MW/h per day. In the US 1kW = \$0.136. 1MW = \$136. 24 MW =	\$3,264.00	\$97,920.00	\$1,175,040.00
	TOTAL:	\$6,214.00	\$186,420.00	\$2,237,040.00
	Net income before taxes	\$0.00	\$122,181.84	\$1,588,308.75
Expenses for C-Level Officers will be determined by Board resolution based on company performance				
ATAKAM INC. +1 (818) 301-5005 toll free: +1 (855) 4-ATAKAM atakam@atakam.us				



Waste tires to electricity

- AQUORA's specialists are in the process of adopting the technology of a recycling pyrolysis machine for manufacturing in the United States. We are planning to design a new recycling complex to recycle heavy waste hydrocarbons like **waste tires for electricity**. Such a complex in connection with power generators can produce up to 2 MW of electricity. It is around 48 MW/hours per day or **1,440 MW/hours per month**. According to the U.S. Energy Information Administration, the average U.S. home uses 867 kilowatt-hours (kWh) or 0.867 MW/hours per month. It means, one such complex can power up to **1,660 households**.
- The complex will consist of the pyrolysis unit for up to 2000 pounds per hour. The production capacity heavily depends on the type and quality of the raw material. In the case of waste tires as raw material, the recycling capacity is 1,000-1,500 pounds per hour. The resulting gas and liquid fuel can feed two electric generators for 1 Megawatt each. The size of the pyrolysis unit equals two 40' containers. Each generator has a size 20' container. The whole complex including storage, technical, and the administrative building has a small footprint and can easily be relocated close to a new source of raw materials.

AQUORA Thermal
Decomposition
Plant
TDP-2-5000 (beta)



- TDP-2-5000

Parameter name	TDP-2-5000
Productivity on the processed raw materials, kg / h (lb. per hour)	Up to 5000 (11023) Depended to material
Operation mode	Continuous
Type of additional (starting) fuel	Boiler (stove) fuel Diesel fuel Pyrolysis gas Natural gas
Type of main fuel	Pyrolysis gas
Main fuel consumption, m ³ /h (ft ³ /h)	Up to 220* (7700 ft3)
Power consumption of the main process equipment, kW / h	Up to 50
Staff (production)	Per shift: 2 operators, 1 forklift driver
The minimum area to accommodate the main technological equipment, m ² (ft ²)	375 (3000)
Power supply, V	380 / 480
Phases, frequency, Hz	3P, 50/60

EU Certification of Pyrolysis Machines

TUV NORD

Certificate of conformity with the following European Directives

Registered No.: **1904604716E/M19/49023**

Machinery Directive 2006/42/EC

Reference/applicant	Date of application	File reference	Test report No.	Date of issue	Expiry date
8493	2019-04-15	8493-PTG_TDPN1	1904604716E/M19/49023	2019-04-15	2024-04-15

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards:

Product: Thermal Destruction Plant

Type designation: TDP-2-200 (3N+PE, 230/400 V~, 50 Hz, 30 kW, processing speed 200 kg/h)

Applicant: Pyrolysis Technology Group, SIA, Līduma iela 1, k-3, Rīga, LV-1006 Latvija.

Standard(s): LVS EN 60204-1:2006 + A1:2009 Safety of machinery - Electrical equipment of machines - Part I: General requirements
LVS EN ISO 12100:2011 Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010).

This Certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD Group. This is to certify that the tested sample is in compliance with the essential requirements referred to Machinery Directive 2006/42/EC. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.


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 / s. n. n. n. n. n. n. /
 Certification Body of TÜV NORD Bank LLC

 The CE marking may be affixed on the product if all relevant and effective Directives are complied with. 

№ 001100

TUV NORD

Certificate of conformity with the following European Directives

Registered No.: **1904604716E/M19/49024**

Machinery Directive 2006/42/EC

Reference/applicant	Date of application	File reference	Test report No.	Date of issue	Expiry date
8493	2019-04-15	8493-PTG_TDPN1	1904604716E/M19/49024	2019-04-15	2024-04-15

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards:

Product: Thermal Destruction Plant

Type designation: TDP-2-500 (3N+PE, 230/400 V~, 50 Hz, 40 kW, processing speed 800 kg/h)

Applicant: Pyrolysis Technology Group, SIA, Līduma iela 1, k-3, Rīga, LV-1006 Latvija.

Standard(s): LVS EN 60204-1:2006 + A1:2009 Safety of machinery - Electrical equipment of machines - Part I: General requirements
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№ 001101

TUV NORD

Certificate of conformity with the following European Directives

Registered No.: **1904604716E/M19/49017**

Machinery Directive 2006/42/EC

Reference/applicant	Date of application	File reference	Test report No.	Date of issue	Expiry date
8493	2019-04-15	8493-PTG_TDPN1	1904604716E/M19/49017	2019-04-15	2024-04-15

This is to certify that the following products comply to the essential requirements of the above mentioned European Directive and the following standards:

Product: Thermal Destruction Plant

Type designation: TDP-2-2000 (3N+PE, 230/400 V~, 50 Hz, 45 kW, processing speed 2000 kg/h)

Applicant: Pyrolysis Technology Group, SIA, Līduma iela 1, k-3, Rīga, LV-1006 Latvija.

Standard(s): LVS EN 60204-1:2006 + A1:2009 Safety of machinery - Electrical equipment of machines - Part I: General requirements
LVS EN ISO 12100:2011 Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010).

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№ 001096

RECENTLY REALIZED PROJECTS

- **Equipment for dry pyrolysis UTD-1.**
Thermokarst gas condensate field located in the Yamal-Nenets Autonomous Region, **Russia**.
Customer: Soyuzgastechnology Research and Production Company.
- **Pyrolysis installation UTD-2.**
Customer: Gazprom Neft (Vyngapur field).
For reference: The Vyngapur field belongs to the Purovsky District (Yanao) of the Yamal-Nenets Autonomous Region of Tyumen Region **Russia**.
- **Installation of Thermal Destruction UTD-1.**
Customer: State-owned enterprise "Unified Waste Management System."
The landfill in the Kaliningrad region **Russia**.
- **Installation of continuous pyrolysis UTD-2-800.**
Customer: "Gagarin Tire Plant Edesko" Ltd. (Smolensk Region) **Russia**.
- **Installation of Thermal Destruction UTD-2** with periodic Block of Rectification of Liquid Pyrolysis Fuel.
Customer: Sarayadyr coal mine Republic of **Kazakhstan**.
- **UTD-2-200.**
Customer: Lukoil-Comi Oil Company, Republic of **Comey**.

RECENTLY REALIZED PROJECTS

- **UTD-2-800 drilling waste disposal complex.**
Customer: Slavneft-Krasnoyarskneftegaz Ltd. **Russia**
- **Installation of continuous pyrolysis UTD-2-800.**
Customer: Stroyengineering LLC (Novokuznetsk) **Russia.**
- **UTD-2-800.** Recycling of drilling waste.
Customer: Kyumbin field in Russia.
- **Pyrolysis plant installation UTD-1.**
Customer: Apatit, Kirovsk, **Russia.**
For reference: Apatit is the world's largest mining and enrichment company for non-feline ore deposits of The Khibin deposits. The inevitable result of its activity is the accumulation of large volumes of thousands of quarry dump trucks such as Belaz on the territory of the enterprise and the fields it is developing.
- **Installation of Thermal Destruction UTD-1-1000.**
The territory of the Uvat field group of RN-Uvatneftegaz LLC (Tyumen region) **Russia.**
- **UTD-2-2000.**
Kyumbin field, Slavneft. **Russia**
- **UTD-2-2000.**
Customer: Viru Keemia Grupp, **Estonia.**

RECENTLY REALIZED PROJECTS

- **UTD-2-800 for industrial and solid waste:** reactor unit, condensation unit, and gas supply line.
The customer is Gazprom Neft. The project is being implemented as part of the development of the West Messoyakha and East Messoyakha fields. **Russia**
- **UTD-2-200M.**
Customer: Wiederkehr Recycling AG, **Switzerland.**
- **Installation of thermal destruction UTD-2-200M.**
Customer: TRIDACNA Ltd. (**Israel**).
- Installation of continuous pyrolysis UTD-2-200.
Customer: Gazpromneft-Yamal LLC.
The furnace is designed for the processing of oil-containing waste from the Novoport field (Yanao Tyumen Region) **Russia.**

TDP-800 before delivery to the customer

Double auger inlet



TDP-800 fits two 40' container sizes.



TDP-50 beta

The smallest machine designed for lab usage, ordered by Oil Institute of Ukrainian Academy of Science. Ready to be shipped from the manufacturing plant in Odesa, Ukraine.



Delivered to the customer



Manufacturing facility in Odesa, Ukraine

TDP-800 on the testing cycle.



This TDP-800 was designed to recycle used plastic into gas and light oil ready to be refined.

SEWAGE TREATMENT

FUEL PELLETS
POWER
GENERATION

- We have developed and tested a method that allows us to get raw materials with further manufacturing of fuel briquettes or organic fertilizers, as well as significantly reduce the cost of sewage treatment, reduce production area, and dramatically reduce environmentally hazardous emissions.
- Today, the sediment after mechanical processing goes to the treatment of activated sludge (by a consortium of bacteria) and is then discharged as a gel on aeration fields. The organic residue (carbon) oxidizes by air oxygen to carbon dioxide and water. Water goes to filtration, and carbon dioxide goes into the atmosphere. Carbon dioxide is a "greenhouse" gas and thus the field of aeration is a powerful source of the greenhouse effect.
- The process of decomposition of the active sludge gel takes up to 3-4 years. All this time, huge areas of treatment facilities - concrete aeration fields - flooded with thousands of tons of recyclable substances. This requires large expenditures on maintenance, dredging, clearing of basins, and so on.
- The proposed method allows for a reduction in the utilization time of sewage sludge (activated sludge) from 3 years to 3 weeks. We have developed a special flocculant to speed up the process of gel decomposition. As a result, gel breaks into water and solid precipitate. Water flows to the filtration. The sediment contains from 70% to 85% of carbon in the form of organic compounds and from 15% to 30% inorganic. It will create a peat-like mass. After simple further processing, we can use it as raw material for the production of fuel briquettes or the production of organic fertilizer. It becomes available due to the fact, that organic compounds in the gel have no time to react with the oxygen of the air and are stored in the sediment, thus being the carbon-rich raw material.
- Our technology does not assume in any way to disrupt existing technology and does not require special equipment. Recycling of raw material occurs on commercially available standard equipment. This technology is suitable for the disposal of livestock on pig farms which is a huge problem today all over the world.



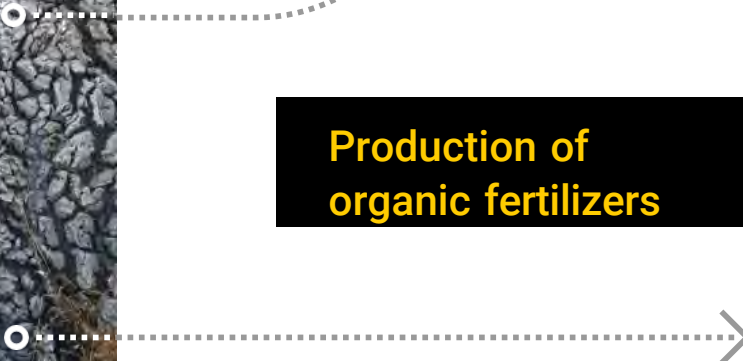
1

Adding the special flocculant to accelerate the process of decomposition of the gel.



2

After 3 weeks, the gel breaks down into water and a solid precipitate falls out.



Production of organic fertilizers

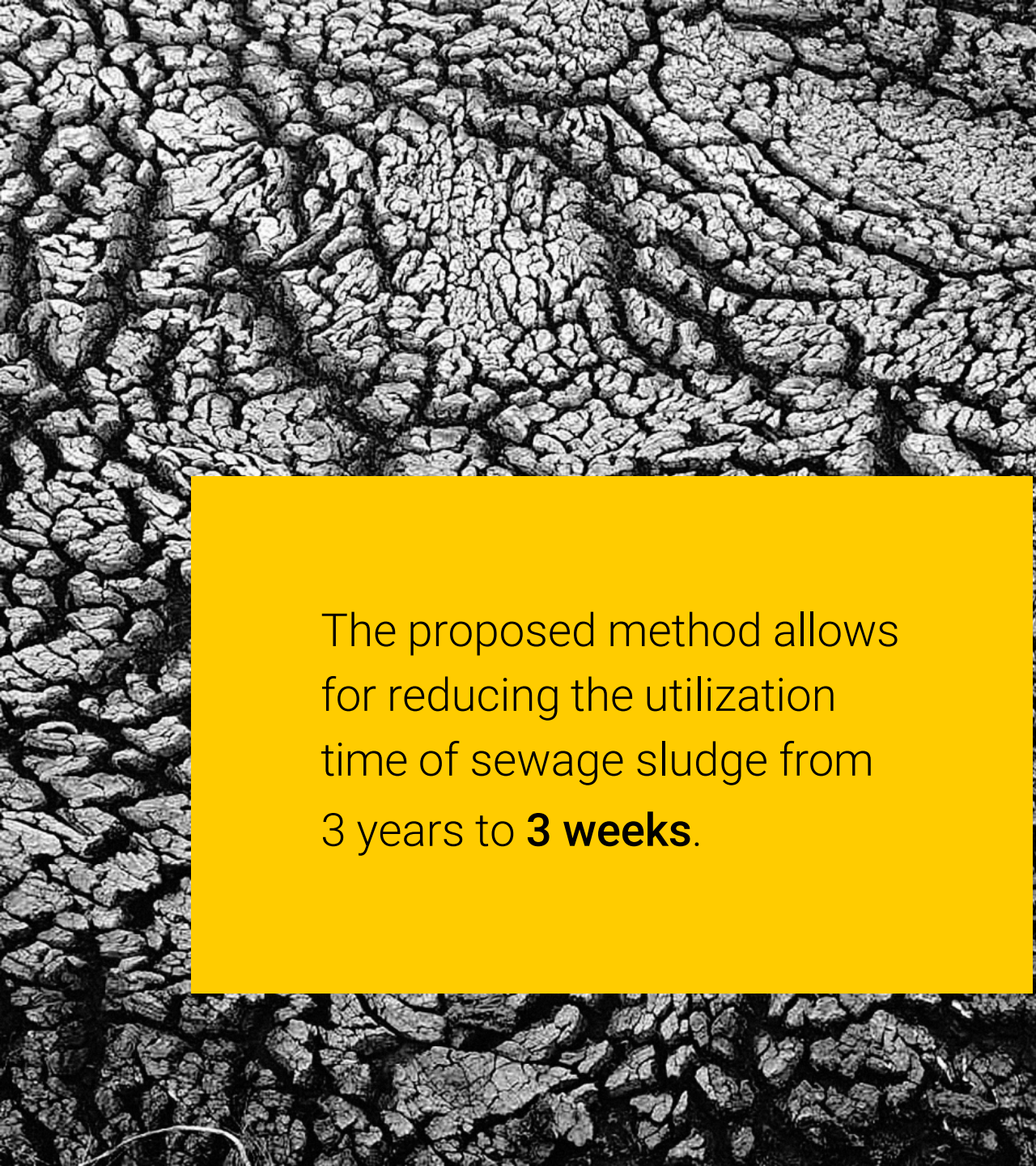
3B



3A

Production of fuel briquettes





The proposed method allows for reducing the utilization time of sewage sludge from 3 years to **3 weeks**.

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Other fuel pellets:	Wood pellets	Peat pellets	Lignite
Calorific value Kcal/kg	4100	4200	3100

The results of the analysis of pellets from the siege of the Chernihiv (Ukraine) Sewage Treatment Plant

	Pellets	Add wood chips	Add coal powder
Calorific value 1, MJ/kg	16,76	18,39	19,20
Calorific value 2, kcal/kg	4004	4396	4589
Humidity, %	7,97	7,07	7,37
Dry residue, %	92,03	92,93	92,63
Organic components, %	70,75	76,86	66,62
Inorganic (Ash), %	29,25	23,14	33,38

X-ray fluorescence analysis of inorganic components, %	Pellets	Add wood chips	Add coal powder
AL ₂ O ₃	8.165	8.572	12.871
CAO	19.198	21.755	15.590
FE ₂ O ₃	4.232	4.474	6.295
K ₂ O	3.282	3.074	2.770
MNO ₂	0.120	0.133	0.140
P ₂ O ₅	7.939	8.223	4.380
SO ₂	2.004	2.834	2.665
SIO ₂	54.191	50.024	54.292
SRO	0.079	0.081	0.076
TIO ₂	0.675	0.716	0.781
ZNO	0.116	0.113	0.141

AQUORA BIO CLEANSE

- "Aquora Bio Cleanse" (ABC) is a bio compound with 5 bacteria strains and the base (sorbent and charcoal). The product can degrade (the process of destruction) oil and petroleum products to environmentally neutral compounds - aldehydes, organic acids, alcohols, carbon dioxide, and water. The main advantage of the product is its ability to almost completely localize and eliminate petroleum products directly on the site of application. Wherein, the product itself and its interaction with components of petroleum products are environmentally friendly and do not require collection, recycling, and waste disposal from the sites. At the end of the clean-up process of oil contaminants, in the ground on site where the product was used remains a set of fertilizers in form of wood ash and biomass.

Atakam Bio Cleanse Applications

Product "ABC" used for localization and cleanup the pollution, oil spills and petroleum products:

- On a hard surface (asphalt, concrete, slabs).
- On the surface of soil, land reclamation (clay, sandy, fertile).
- On the water surface (sea, river, lake, wetland waters of artificial and processing reservoirs, canals).
- On the surface of the snow.
- On the surface of waste drilling muds.
- When cleaning the tanks and reservoirs.
- When cleaning the wastewater.
- When cleaning the groundwater contamination (groundwater).
- When cleaning the coastal areas.
- When cleaning the oil spots and film.
- When cleaning septic tanks, coolers, water treatment plants, sewage. • When used in a variety of filters



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