

The future of power generation starts now

Reliable performance Innovative... Advanced engineering... Technology



Current challenges in the energy sector

Today, the world relies on expensive traditional energy sources.

Unsustainable, and with a significant environmental impact.

The increasing global demand for energy requires smart, clean, and efficient solutions more than ever before.



High costs

High and constantly fluctuating fossil fuel prices.



Environmental pollution

Traditional energy sources cause large and harmful carbon emissions.



Frequent interruptions

Instability in electrical networks leads to production disruptions and increasing losses.



Remote areas

Millions of people around the world live without electricity or with limited services.



The world needs new technology that redefines energy generation.



The solution is in your hands

Innovative technology redefining power generation

We offer a fully integrated, highly efficient electricity generation system based on an advanced physical principle that ensures continuous operation while minimizing operating and maintenance costs.



Advanced engineering innovation opens new horizons for the future of energy worldwide



High reliability

Robust system designed for stable, long-term performance



Continuous operation
Uninterrupted power supply 24/7



High efficiency
Highest efficiency, lowest energy loss



Compact design
Less space... Greater efficiency



Low maintenance
Smart design for a longer lifespan



**KIOPEDO
KARLOTCHY**

ENGINEERING • REIMAGINING



04 |

How It Works

Our Advanced Technology

Integrated Smart Energy System



1. Power Generation
from a Compatible Fuel
Source



2. Intelligent Processing
Energy Conversion via
Special Preparation



High-Efficiency Clean Electricity
3. Advanced
Conversion Production of



by Intelligent Systems
4. Management and Protection
of Performance



5. Ready Power:
Stable, Safe, and
Reliable Energy



High Efficiency

Advanced system for maximum efficiency and
minimum consumption.



Intelligent Control:

Advanced control technologies ensure optimal
performance in all conditions.



Safety and Sustainability

Safe and environmentally friendly
design for a sustainable future



Testing Every Detail

To Ensure Absolute Reliability

We subject our system to a series of rigorous tests at every stage of design and manufacturing to ensure the highest levels of quality, performance, and safety.



Absolute Reliability

Every test... a step towards perfection



Highest Global Quality Standards



Full documentation of all tests



Performance analysis and continuous improvement



Safety and security in all conditions



Testing Included



Thermal Performance Tests

Measures system performance at extremely high and low temperatures.

01



Electrical Load Tests:

Handles varying loads to ensure efficiency and stability.

02



Vibration and Shock Tests:

Simulates vibration and shock conditions in different operating environments.

03



Long-Term Operation Tests

Continuous operation for thousands of hours. Guaranteed reliability.

04



Safety and security tests:

Checks all protection and fault shutdown systems.

05



Environmental Conditions Tests:

Tests resistance to moisture, dust, salts, and climatic variations.

06



Rigorously tested... to operate confidently anywhere, anytime

Why is our technology different?

A new generation of power generation systems

Conventional generators		KIOPEDO KARLOTCHY
Fossil fuel (diesel/gas)	 Power source	Clean and renewable energy
High carbon emissions	 Emissions	Near-zero emissions
High noise level	 Noise	Less than 70 dB
Frequent maintenance and high costs	 Maintenance	Low maintenance and smart operation
Average efficiency (30-40%)	 Efficiency	High efficiency More than (85)
Limited operating life	 Lifespan	Longer life span and stable performance



Clean energy

A safer environment
for our planet



Lower operating costs

Greater
long-term savings



Safety and reliability

Stable operation in
all conditions



Smart energy

Advanced technology,
a better future

Not just a generator... but a smart energy system for a sustainable future

Multiple Applications, Smart Energy Solutions for Every Need

From large industries to small projects, from remote areas to smart cities... the same technology, dependable performance.



01



Factories and Industrial Facilities



Continuous power supply to support production lines and minimize downtime.

02



Projects and Construction



Reliable power for work sites in all conditions.

03



Residential Complexes and Commercial Buildings



A smart solution to ensure continuity of energy and the comfort of residents.

04



Telecommunications and Data Centers



Protecting infrastructure and ensuring the operation of critical systems.

05



Remote and Rural Areas



Independent and reliable power solutions where traditional checks don't arrive.

06



Renewable Energy Projects



for storage and management.
Highly efficient renewable energy. Perfect integration

07



Hospitals and Critical Facilities



Highly reliable backup power. Protecting lives and equipment.

08



Events and Conferences



Clean, quiet, and reliable power for any event, anywhere.



Unlimited applications... One power for every need

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To Guarantee Absolute Reliability

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Absolute Reliability

Every test... a step towards perfection



Highest global quality standards



Full documentation of all tests



Performance analysis and continuous improvement



Safety and security in all conditions



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Vibration and Shock Tests:

Simulates vibration and shock conditions in different operating environments.

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Long-Term Operation Tests: Continuous

operation for thousands of hours guarantees reliability.

04



Safety and Security Tests:

Checks all protection and fault shutdown systems.

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Environmental Conditions Tests:

Tests resistance to moisture, dust, salts, and climatic variations.

06



Rigorously tested... to operate confidently anywhere, anytime

Performance Beyond Expectations

Advanced Engineering for Limitless Operation

A system designed for maximum reliability and efficiency. To operate in the toughest conditions and maintain peak performance.



Exceptional Efficiency

Energy conversion with the highest possible efficiency and lowest possible losses.



Absolute Reliability

Robust engineering design ensures continuous and reliable operation.



Superior Performance

High load capacity to meet the most demanding requirements.



Quiet Operation

Advanced insulation technology to ensure the lowest noise level.



Low Maintenance

Intelligent design reduces downtime and lowers operating costs.



Withstands the Toughest Conditions

Operates efficiently in high temperatures and harsh environments.



Performance Beyond Expectations... Because your energy deserves the best

Protecting Today... Sustaining Tomorrow

Clean Energy for a Better Future

We are committed to providing a smart and safe energy system that protects the environment and reduces carbon emissions to build a more sustainable future.



Clean Energy

Operates on an advanced combustion system that reduces emissions and keeps the air clean.



Lower Emissions

Engineered to reduce the carbon footprint and achieve sustainability.



Sustainable Future

We support the global transition to clean energy for better generations to come.



Resource Efficiency

Optimal fuel and resource consumption to achieve the highest return at the lowest cost.



Safe for the Environment and Society

Safe technologies that reduce risks to the environment and provide reliable energy for society.



Partnership for the Future

Working with our partners to achieve a shared vision for a more sustainable planet.



Protecting our planet... to ensure sustainable energy for future generations

Today's Innovation... Tomorrow's Energy

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Towards a Smarter, More Powerful Future

Advanced energy systems combining innovation, efficiency, and sustainability to meet the needs of the present and the challenges of the future.



01



Smart Technology

Advanced systems based on artificial intelligence and intelligent control for the highest operating efficiency.



02



High Efficiency

Innovative engineering design for maximum efficiency and minimum energy consumption.



03



Reliability and Safety

The highest safety and quality standards protect people, equipment, and the environment.



04



Quiet Operation

Advanced noise reduction technology provides a comfortable and quiet operating environment.



05



Continuous Operation

A design that ensures continuous, 24/7 operation with maximum reliability.



06



Low Maintenance

Intelligent design reduces maintenance requirements and lowers operating costs.



07



Environmentally

Friendly: Reduces carbon emissions and supports the transition to clean and sustainable energy.



08



Flexible Solutions:

Customized solutions for each project according to different requirements and conditions.



09



Partner in Success

We are committed to supporting our clients from planning to implementation and after-sales service to achieve shared success.



Advanced energy today... for a more sustainable and prosperous future

Innovation today, sustainability tomorrow...

Integrated energy solutions for a prosperous future

We offer an advanced energy system that combines intelligent engineering, cutting-edge technology, and a commitment to the environment to build a more efficient and sustainable future.



01



Continuous innovation

Ongoing investment in research and development to deliver smart and innovative solutions.

02



High efficiency

Maximize energy efficiency and minimize waste with the latest technologies.

03



Absolute reliability

Reliable systems designed to deliver stable performance over the long term.

04



Environmentally friendly

Solutions that reduce emissions and preserve the environment for future generations.

05



Continuous operation

Systems that operate around the clock to ensure a continuous power supply.

06



Advanced integration

Seamless integration between hardware and software for seamless and efficient performance.

07



Cost savings

Reduce operating and maintenance costs and increase return on investment.

08



Professional team

A team of experts committed to providing the best solutions and technical support.

09



Scalability

Flexible solutions that can be scaled up to current and future needs.

10



Global Standards

Commitment to the highest international standards ensures the quality and safety of systems.

11



Long-Term Partnership

We build partnerships based on trust and shared success.

12



Sustainable Future

We contribute to building a sustainable energy future and a more prosperous economy.



Towards a more efficient... more sustainable... and brighter future

Comparison of the true operating cost of conventional generators versus the KIOPEDO system

Savings today... Sustainability for tomorrow

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The KIOPEDO system imposes a true and transparent comparison

- 1. Real savings in fuel and electricity consumption in all conditions
- 2. Continuous cost savings 24 hours/7 days a week
- 3. Savings on periodic maintenance and spare parts, and increased lifespan
- 4. Operating costs are almost zero thanks to clean energy
- 5. Quiet, safe, and environmentally friendly operation with no harmful emissions or noise

Huge savings for the KIOPEDO system



Saves 75% to 90% of fuel costs annually



Saves 50% to 100% of carbon emissions



Conventional Generators (Diesel)	KIOPEDO System (Clean Energy)	Item
Diesel Generator Operating Cost with Fuel Consumption and Maintenance	Clean Energy System Operating Cost	
3 EGP	0 EGP	Cost of electricity per 1 kWh
8 hours per day	8 hours daily	Average daily operation
1.25 liters/hour x 8 hours = 10 liters per day	No fuel consumption) 0	5 kW operating comparison
10 liters/hour x 8 hours = 80 liters per day	No fuel consumption) 0	50 kW operating comparison
60 liters/hour x 8 hours = 480 liters per day	No fuel consumption) 0	300 kW operating comparison
10 liters x 30 days x 12 months x 50 EGP = 150,000 EGP	EGP No fuel cost) 0	Annual fuel cost
80 liters x 30 days x 12 months x 50 EGP = 1,440,000 EGP	EGP No fuel cost)	
480 liters x 30 days x 12 months x 50 EGP = 8,640,000 EGP	EGP No fuel cost)	
8,640,000 EGP annually (fuel only)	Only EGP 2,052,000 annually (periodic maintenance)	Operating cost
—	Annual savings of more than EGP 6,588,000	Fuel savings and conservation

End result



Save up to

6,588,000 EGP annually

When running 300 kW for 8 hours per day

Additional features of the KIOPEDO system

	100% clean energy	✓
	Zero carbon emissions	✓
	No noise	✓
	High safety	✓
	Longer operating life	✓
	Consistent and stable performance	✓



Comprehensive warranty for

20 years

On the system



Continuous operation

24/7

Around the clock



50 kW and above at a price of

EGP 75,000

Installation not included

Important note

The smart KIOPEDO system relies on the latest clean and renewable energy technologies with highly efficient storage and smart management.
Invest today... Security and sustainability for future generations

Clean Energy... Noise-Free

Less than
70 dB

Ultra-Quiet Operation



Full
Soundproofing Option
As per customer request

Suitable for all environments



Noise Level Comparison



The KIOPEDO system operates very quietly, less than 70% at all capacities.

Why is quiet important?

- ✓ Great comfort for the surrounding environment
- ✓ Hearing protection and stress reduction
- ✓ Compliant with global noise standards
- ✓ Enhances quality of life and productivity
- ✓ Does not affect work or rest



Note

Advanced sound insulation technologies within the KIOPEDO system ensure extremely quiet operation without affecting performance or efficiency. Ideal for noise-sensitive facilities.



Available Capacities

Fuel-free energy solutions... to suit every need.

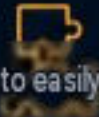
From 5 kW to 5 MW. Consistent performance
and exceptional efficiency for every capacity.



Available Capacity Categories

5 kW (5 kW)	10 kW (10 kW)	25 kW (25 kW)	50 kW (50 kW)	100 kW (100 kW)	300 kW (300 kW)	1 MW	5 MW (5 MW)
							
Home	Small Shops and Offices	Small Businesses	Companies and Plants	Large Factories	Industrial Projects	Large Projects	Industrial Estates and Large Complexes

Scalable Design

 Multiple units can be linked together
to easily achieve greater capacities with
high stability and efficiency.

Key Specifications per Category Capacity

Category	5 kW	10 kW	25 kW	50 kW	100 kW	300 kW	1 MW	5 MW
 Continuous Power	5 kW	10 kW	25 kW	50 kW	100 kW	300 kW	1,000 kW	5,000 kW
Voltage Outputs 4	220V / 380V	220V / 380V	380V	380V	380V	380V	380V	380V
 Maximum Current (Approx.)	25 A	50 A	66 A	132 A	264 A	792 A	1,320 A	6,600 A
 Length x Width x Height (cm)	110 x 60 x 80 cm	130 x 70 x 100 cm	170 x 80 x 120 cm	140 x 90 x 190 cm	190 x 110 x 180 cm	200 x 120 x 250 cm	230 x 150 x 350 cm	250 x 200 x 600 cm
 Weight (approx.)	220 kg	320 kg	500 kg	750 kg	1,300 kg	2,800 kg	5,500 kg	12,000 kg
 Main applications	House/Apartment	Shops/Offices	Workshops/Warehouses	Small businesses	Medium-sized factories	Large factories	Major projects	Industrial areas



Fuel-free
100%



Carbon emissions 0%



Power consumption
less than 70



Continuous 24/7
operation



High safety and
integrated protection



Low maintenance and
lower operating costs



High efficiency
90% حتى

Note

All capacities are expandable up to 5 MW and above by
connecting multiple units as required



The Future of Energy Starts Now





Patent Certificate

Patent No. 45551

Fuel-Free Electricity Generator

This is to certify that the patent has been granted to:

Kiopedo Karlovich

For the invention titled:

Fuel-Free Electricity Generators

Inventor: *Ahmed Effat Mohamed Abdel Ranof*

President of ASRT

Date of Grant: August 20, 2021

Head of Egyptian Patent Office.



Prof. Adel El-Beltagy



Nadia Ibrahim Abdullah

Patent Duration: 15 Years from Grant Date
(Valid Until August 20, 2036)



جمهورية مصر العربية
وزارة الدولة للشئون الاقتصادية



كاديمية البحث العلمي والتكنولوجيا



جمهورية مصر العربية
وزارة الدولة لشئون البحث العلمي

براءة اختراع
رقم ٤٥٥٥١

بعد الإطّلاع على المادة 19 من قانون حماية الملكية الفكرية الصادر بالقانون رقم 82 لسنة 2003 وعلى قرار رئيس الجمهورية رقم 377 لسنة 1998 بإعادة

تنظيم أكاديمية البحث العلمي والتكنولوجيا وعلى طلب البراءة المقدم تحت رقم 344130---943/2020 بتاريخ 1/7/2020 و المستندات الملحقة فور

مادة 1: تمنح براءة اختراع تحت رقم 45551
الى : شركة كيبويدو تكنولوجي للتكنولوجيا البناء
عن اختراع تحت مسمى : مواد كبرياء تعمل بدون الوقود المحوري

اسم المخترع : دكتور أحمد علي محمد عبد الرؤوف

مادة 2: صدر هذا القرار في القاهرة بتاريخ 20/8/2023

مادة 3: على الجهة المختصة لشراء في جريدة براءات الاختراع

العالم بالفعال والحي

أكاديمية البحث العلمي والتكنولوجيا

* ا. د. محسن محمود شكري *

المسألة

ملکیت برادان الاختراع

“...بأنه لا يقدر على أن يتركها...”