



RePCG®

Industrial Applications
Electricity & Air Conditioning
Atmospheric Water Generators

About Us

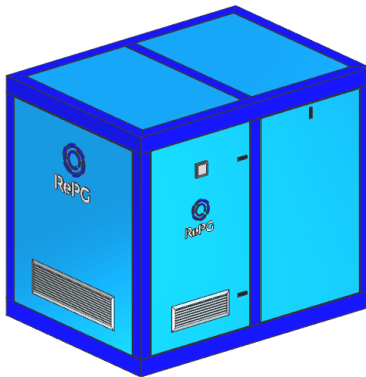
- RePG Energy started its activities with the incubation support of ITU Cekirdek in 2015
- In 2016, it won a degree in the TÜBİTAK BIGG competition with the «High-Efficiency Static Range Extender that Can Operate at Low Temperatures project and continued its activities as an LTD company.
- In 2017, It received investment from TRANGELS Angel Investment Network and produced the first prototype
- RePG is working in 3 locations, namely Istanbul ITU ARI, Bursa Factory & R&D Center and ULUTEK Teknokent.
- RePG Energy's field of activity; To increase the energy efficiency of small and medium-sized institutions, homes, offices, hotels and factories and to offer energy recovery systems.
- RePG's R&D and P&D studies with its own patents are carried out by Renewable Energy Systems, generating electrical energy from waste heat and heating & cooling load, and atmospheric water generators.



Technologies and Activities



- Renewable Energy Production Based on Relative Humidity and Temperature Change
- RePG AQUA Water Production – Atmospheric Water Generators
- High-Efficiency Energy Generation from Low-Temperature Waste Heat
- Development of Hardware and Software Suitable for Renewable Energy Systems
- Development of IoT-based Mobile Applications
- 100% Domestic Turbine Production
- Range Extender Production
- Heating - Cooling - Air Conditioning Systems Production



- We have 34 registered patents and 10 patent applications ongoing.
- We have 22 different trademark registrations, including RePG and our subsidiaries.
- We have 5 design registrations.
- We have 5 completed and 5 ongoing publicly supported projects.
- Our products have an audited CE certificate.
- ISO 9001:2015 - Quality Management System
- ISO 22716:2013 - GMP - Good Manufacturing Practices
- ISO 10002:2018 - Customer Satisfaction and Complaint Management System
- ISO 14001:2015 - Environmental Management System
- ISO 45001:2018 - Occupational Health and Safety Management System
- We have ISO 31000:2018 - Enterprise Risk Management System certificates.



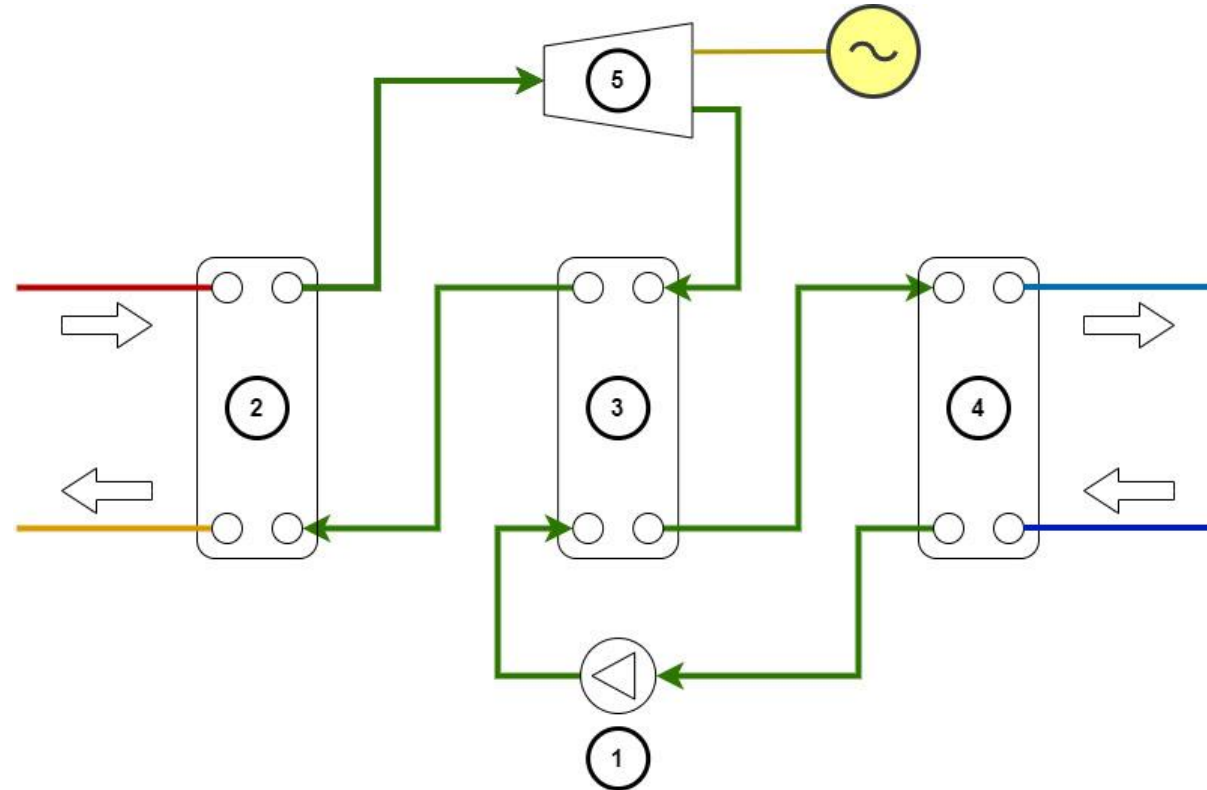
Features of Products

- It provides energy production in a single case with a power range of 1-250 kW.
- It provides electrical energy generation, heating and cooling load from heat sources of 50°C and above.
- It is compatible with all kinds of fluids such as Water, Gas, Oil.
- It is modular. The capacity can be increased by connecting the modules in series and parallel.
- CE Certified
- It can work as a Heat Pump and Air Conditioner.
- Zero Emissions and GWP
- It can be monitored and controlled remotely thanks to 4G mobile internet connection.
- Thanks to its artificial intelligence supported algorithm, it does not require an operator.
- Easy to commission. (Plug & Play)
- It is suitable for On-Grid & Off-Grid connection types.
- Relocatable (Relocatable)
- It is suitable to work with energy storage devices (battery, battery).
- The generated electrical energy can be utilized to operate processors in cryptocurrency mining.



Operating Principle

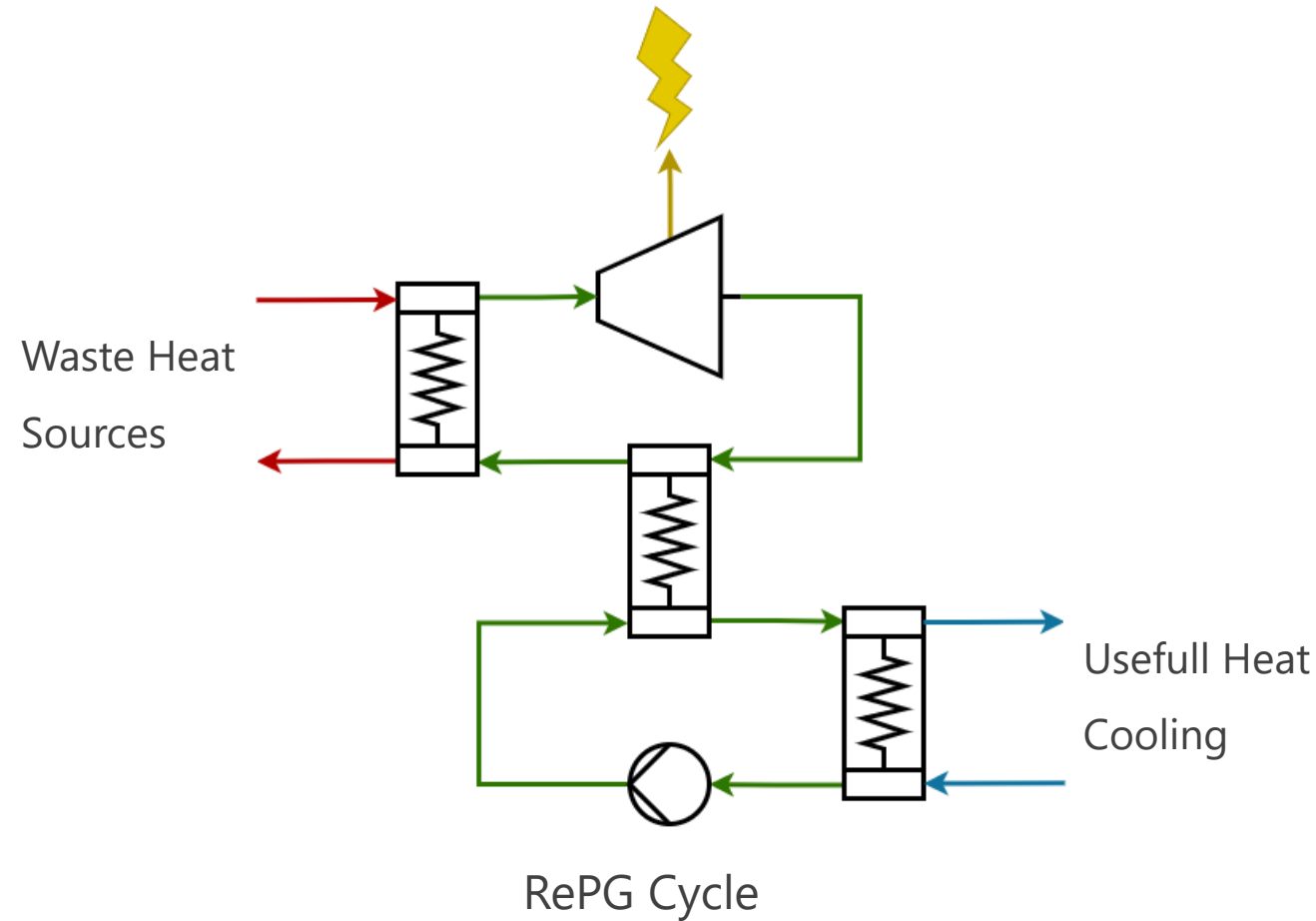
- 1) Pump: It is used to pressurize the RePG fluid in the system.
- 2) Evaporator: It is used for heat energy transfer from heat sources such as factory chimneys, geothermal resources, solar heating systems to RePG fluid.
- 3) Recuperator: While increasing the overall efficiency of the system, it is used to provide heat transfer between the hot gas at the turbine exit and the cold fluid pressurized by the pump.
- 4) Condenser: While providing the cooling of the gas at the turbine exit, it creates useful heat. This energy can be used in the water phase in heating systems.
- 5) Turbine: It is used to generate electrical energy with high efficiency during the expansion of the RePG fluid.



The RePG system evaporates the low-boiling fluid, which is pressurized with a pump, in the evaporator with the heat energy coming from the heat source. It provides electricity generation as a result of the pressurized fluid in the gas phase turning the turbine. The temperature of the fluid leaving the turbine is lowered in the recuperator to increase the overall cycle efficiency. Then, the fluid is liquefied by means of the condenser and transmitted to the pump suction. In this way, electricity is produced in a completely closed cycle without loss of fluid.

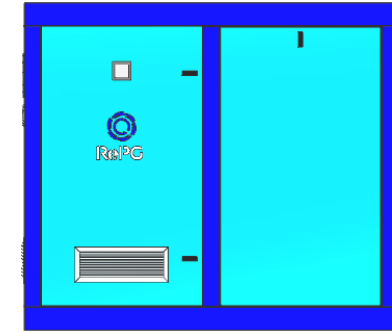
Operating Principle

- Geothermal Water
- Flare Gas
- Solar Collector
- Engine Coolant
- Compressor Cooling Oil
- Factory Chimney
- Farm Stoves
- Coal/Pellet Stove
- Boiler
- Combi



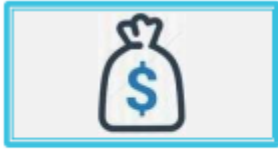
- Heating System
- Fan Coil
- Shower/Domestic Water
- Greenhouse/Farm Heating
- Cooling tower
- Chiller
- Dry Condenser

Products



Energy Production Capacity	1-5 kWh	5-15 kWh	25 kWh +
Heat Transfer Fluid	Water/Oil/Gas	Water/Oil/Gas	Water/Oil/Gas
Fluid Temperature	50-240 °C	50-240 °C	50-240 °C
Heat Transfer Fluid Connection	1" – Threaded or Flanged	2" – Threaded or Flanged	2" or above – Threaded or Flanged
Operating pressure	Max. 45 bar	Max. 45 bar	Max. 45 bar
Operating Frequency	50-60 Hz	50-60 Hz	50-60 Hz
Operating Voltage	400V AC	400V AC	400V AC
Phase Value	3	3	3
Size	850x850x1500 mm	1100x1450x1500 mm	1150x1650x1500 mm
Weight	250 kg	500 kg	750 kg

Problems and RePG's Solutions



Economics

- Payback periods in conventional systems are in the range of 7-10 years.
- RePG payback periods are kept within 2-3 years.



Function

- Conventional systems are suitable for operation with a single heat source.
- RePG technology is designed to work with any waste heat source.



Domestic

- Renewable energy sources such as sun and wind are not domestic.
- RePG technology and systems have a high locality rate and this rate is being increased.



Flexibility

- Conventional systems are installed on a large scale depending on the capacity.
- RePG systems can be scaled up and down modularly according to energy needs.

Problems and RePG Solutions



Users

- There is an operator requirement for the control of conventional systems.
- Thanks to its smart algorithm, RePG systems work automatically and do not require an operator.



Efficiency

- Known systems can only operate at high temperatures ($+150^{\circ}\text{C}$).
- RePG systems are designed to operate with high efficiency at all temperatures of 50°C and above.



Mobility

- Known systems are not mobile infrastructure compatible and cannot be relocated.
- RePG systems are based on IoT. It can be relocated depending on the heat source location.



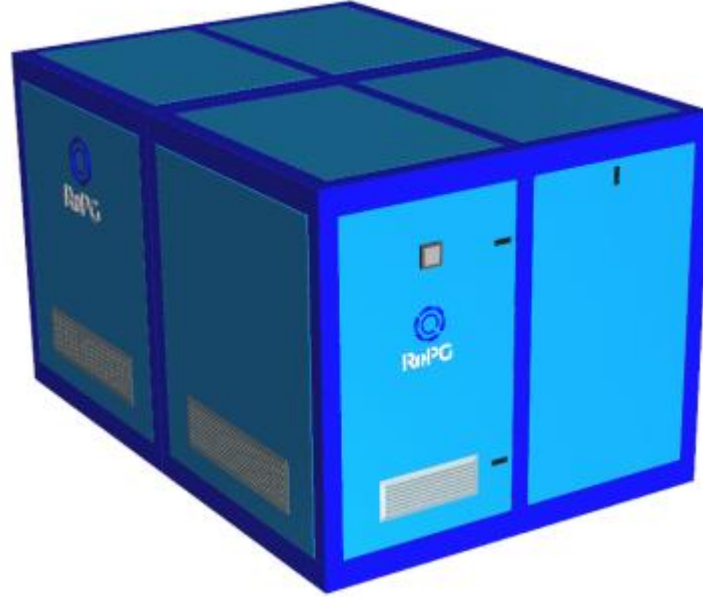
Innovation

- RePG systems can generate electrical energy from the relative humidity and temperature difference in the air with its patented technology.

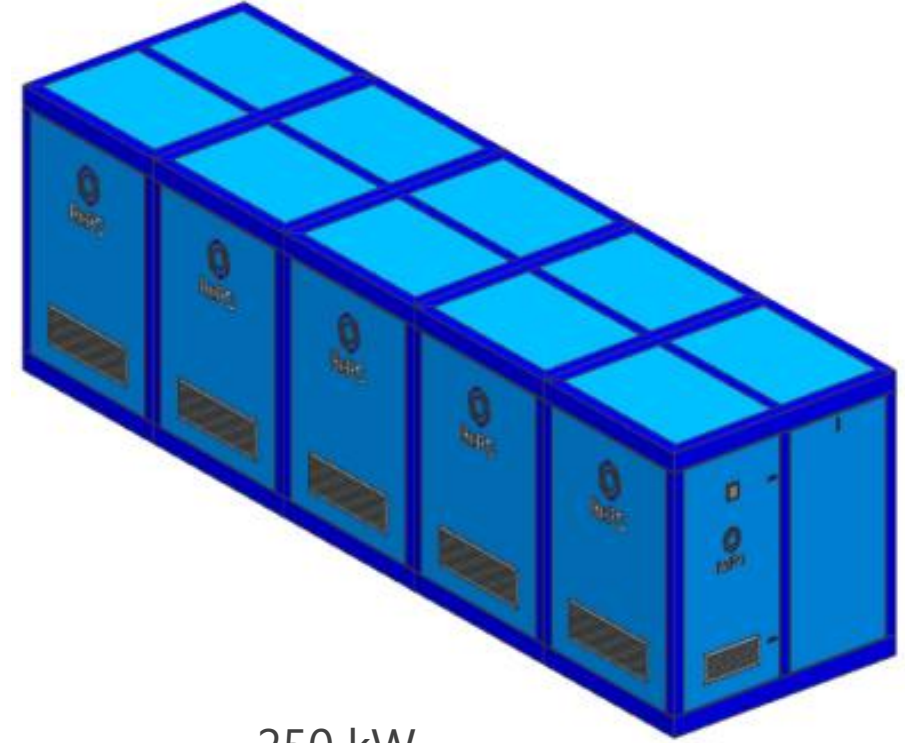
Modular Scale



25 kW



100 kW



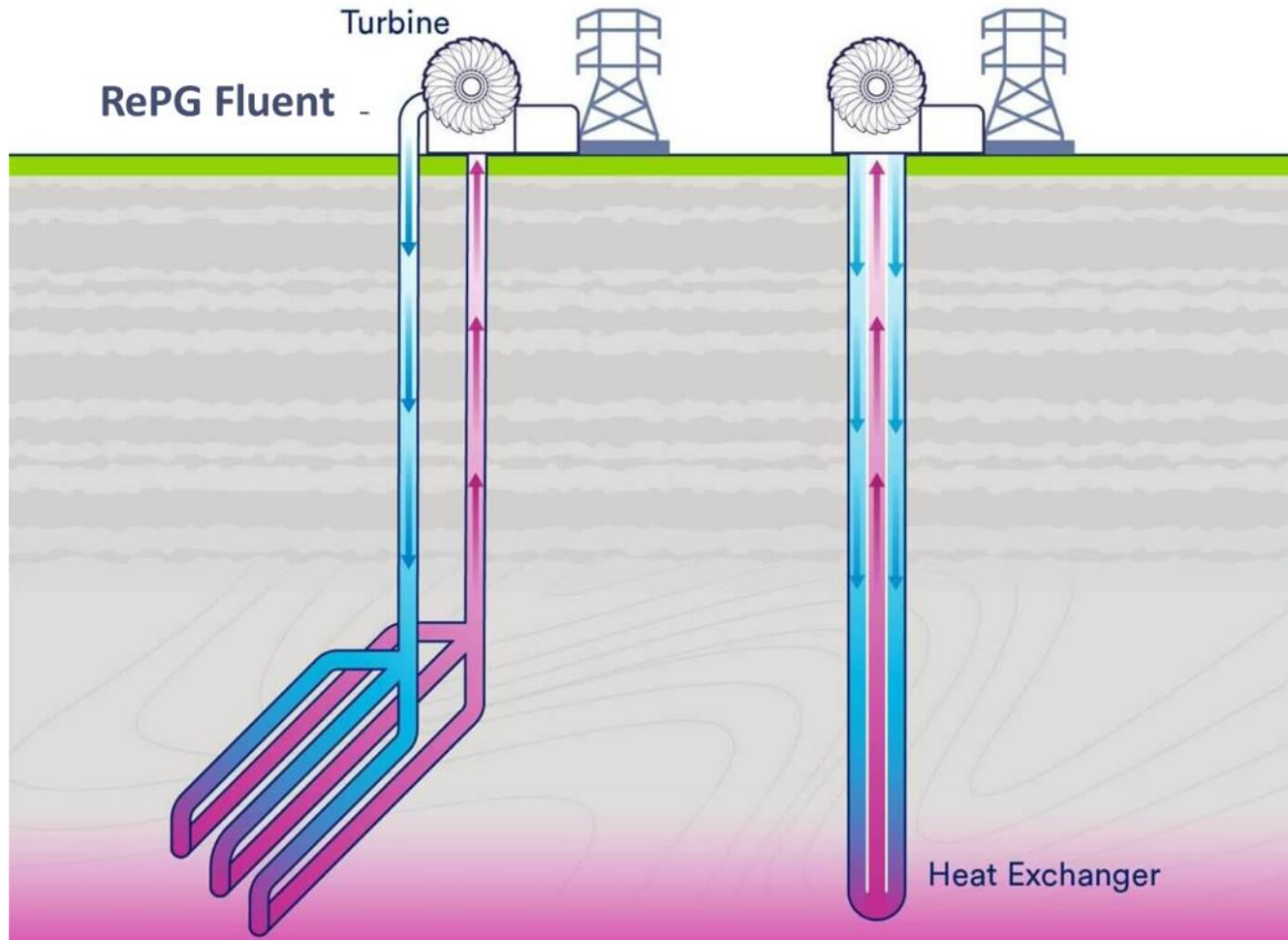
250 kW

- Thanks to the capacity that can be modularly expanded or reduced, the initial installation and commissioning time is shortened.
- When the temperature and flow rate of the waste heat source decrease, modules are automatically activated or deactivated to maintain high system efficiency.
- At the same time, instead of shutting down the entire system during maintenance, only the modules requiring service are taken offline, allowing electricity generation to continue.

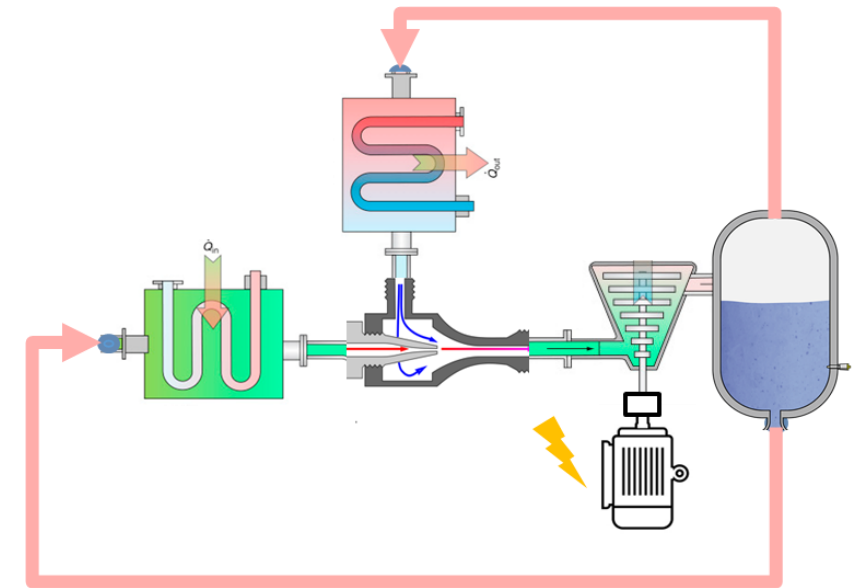
Low Temperature Waste Heat Commercial Applications



fRePG®

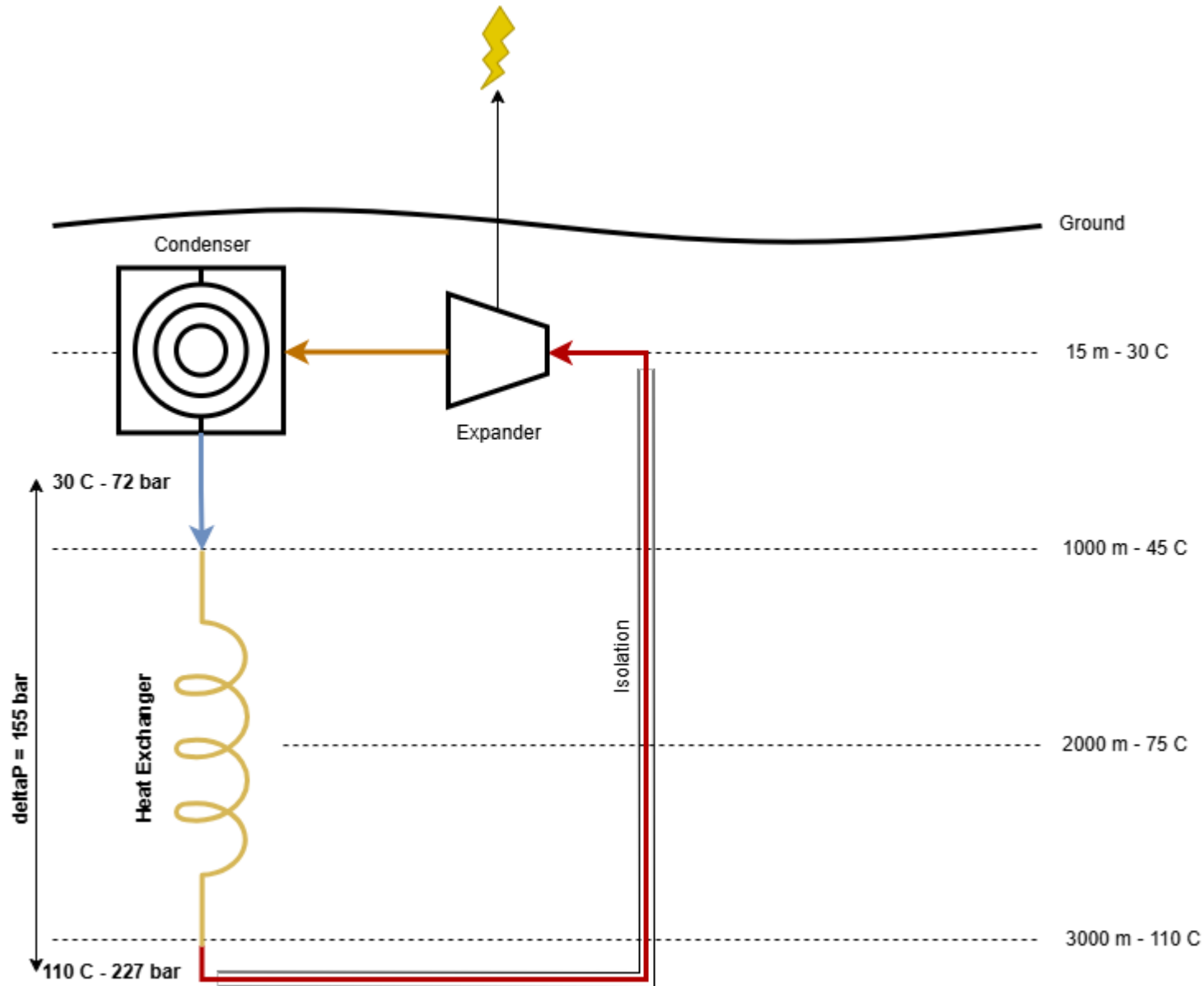


- With RePG Energy System A Depth of 750 meters is sufficient for anywhere in the world



Closed Cycle Geothermal Application

Closed Cycle Geothermal Application

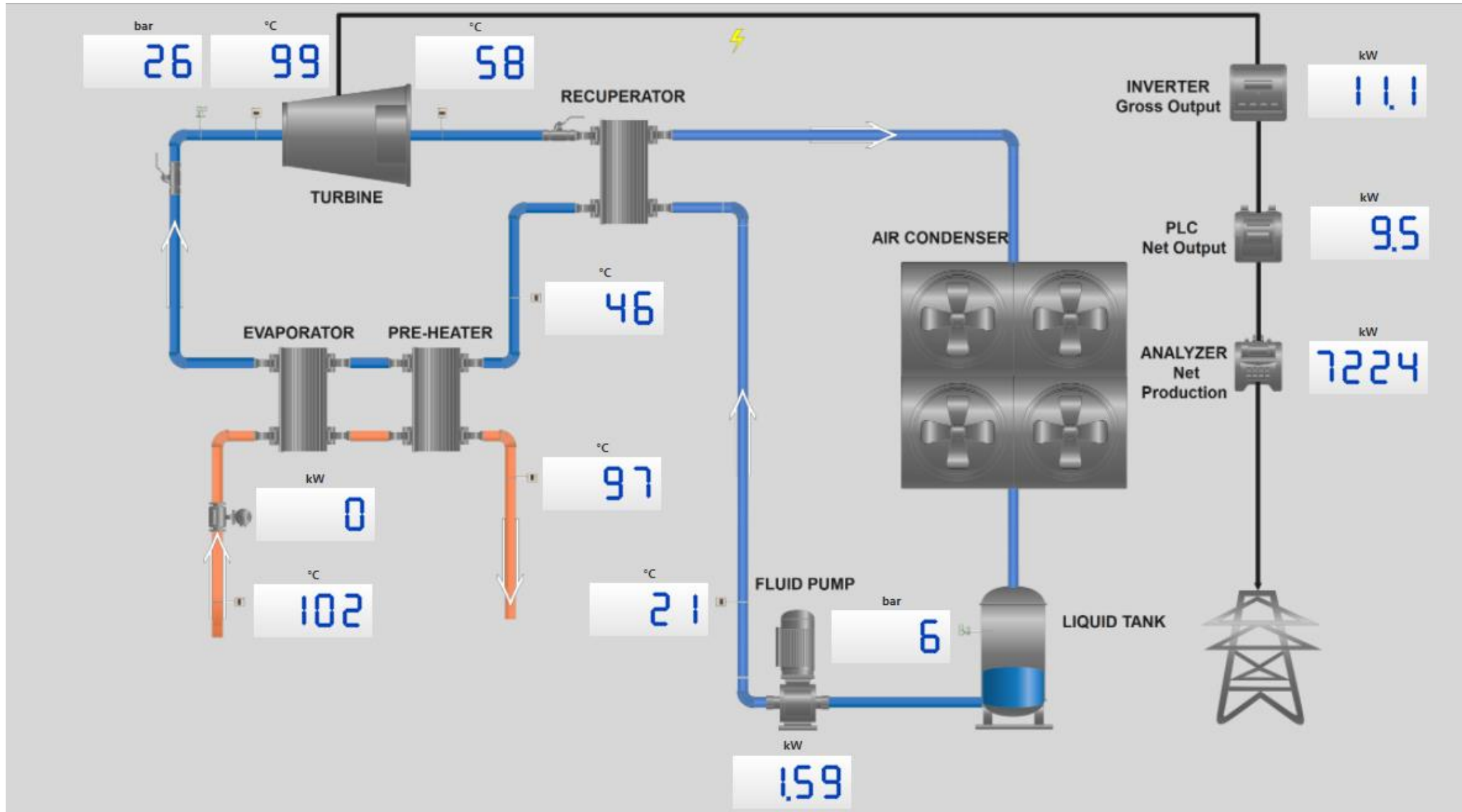


- In this application, the system takes advantage of the fact that the ground is excavated and that temperatures at different depths remain constant throughout the year. At a depth of approximately 30 meters, the temperature is about 15 °C, while at a depth of 3,000 meters the temperature reaches around 110 °C. The cold side of the system is supplied by a heat exchanger installed in the 15 °C zone, whereas the hot side is supplied by another heat exchanger located along the pipeline in the hotter region.
- The special RePG solution used reaches high pressure in the high-temperature region and is directed to the turbine through an insulated pipeline. After expanding in the turbine, it is condensed in a heat exchanger located in the 15 °C zone and then sent back to the hot region.
- Thanks to this technology, electrical energy can be generated by utilizing the heat of the ground even in the absence of an underground hot water source

Monitoring and Remote Control



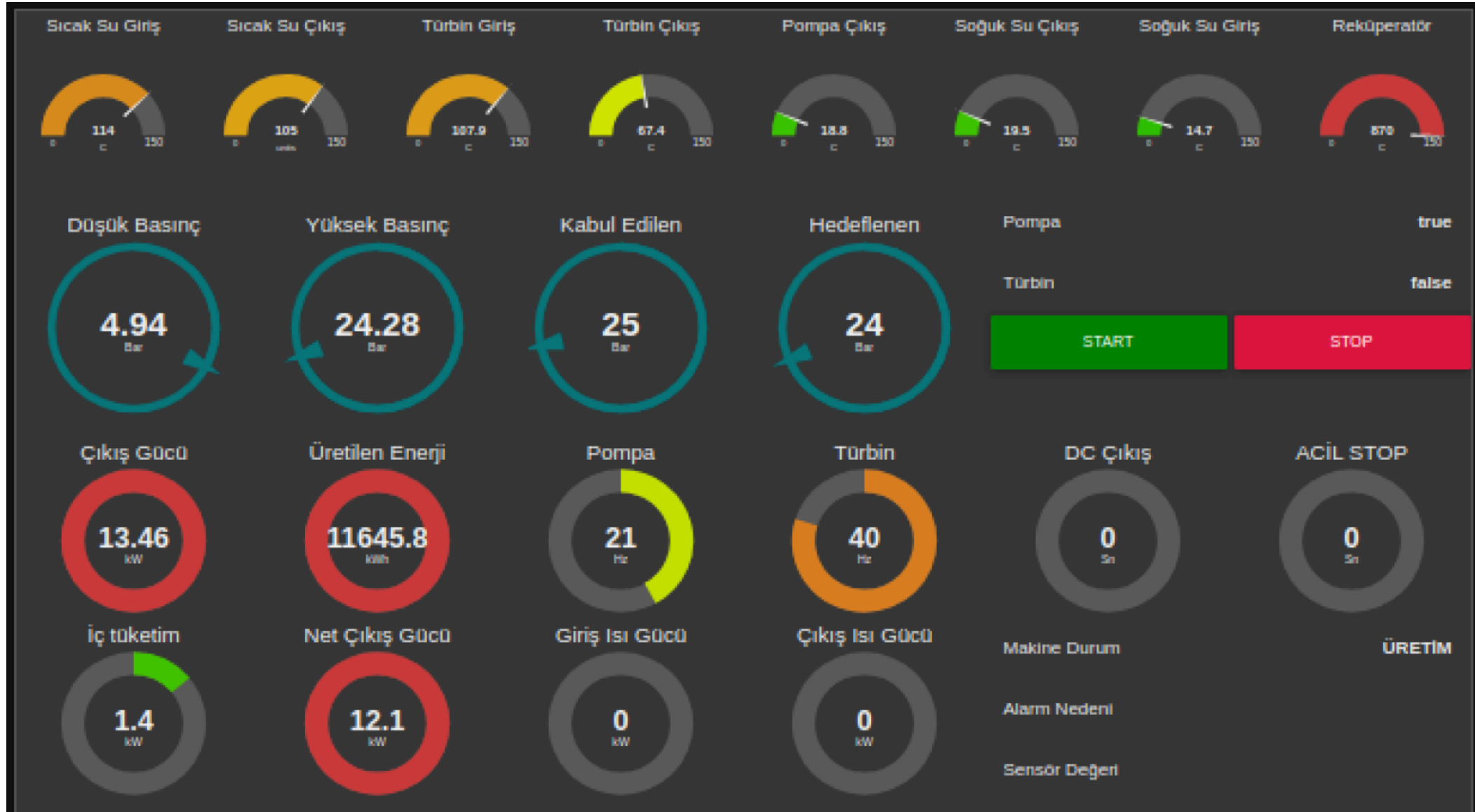
RePG®



Monitoring and Remote Control



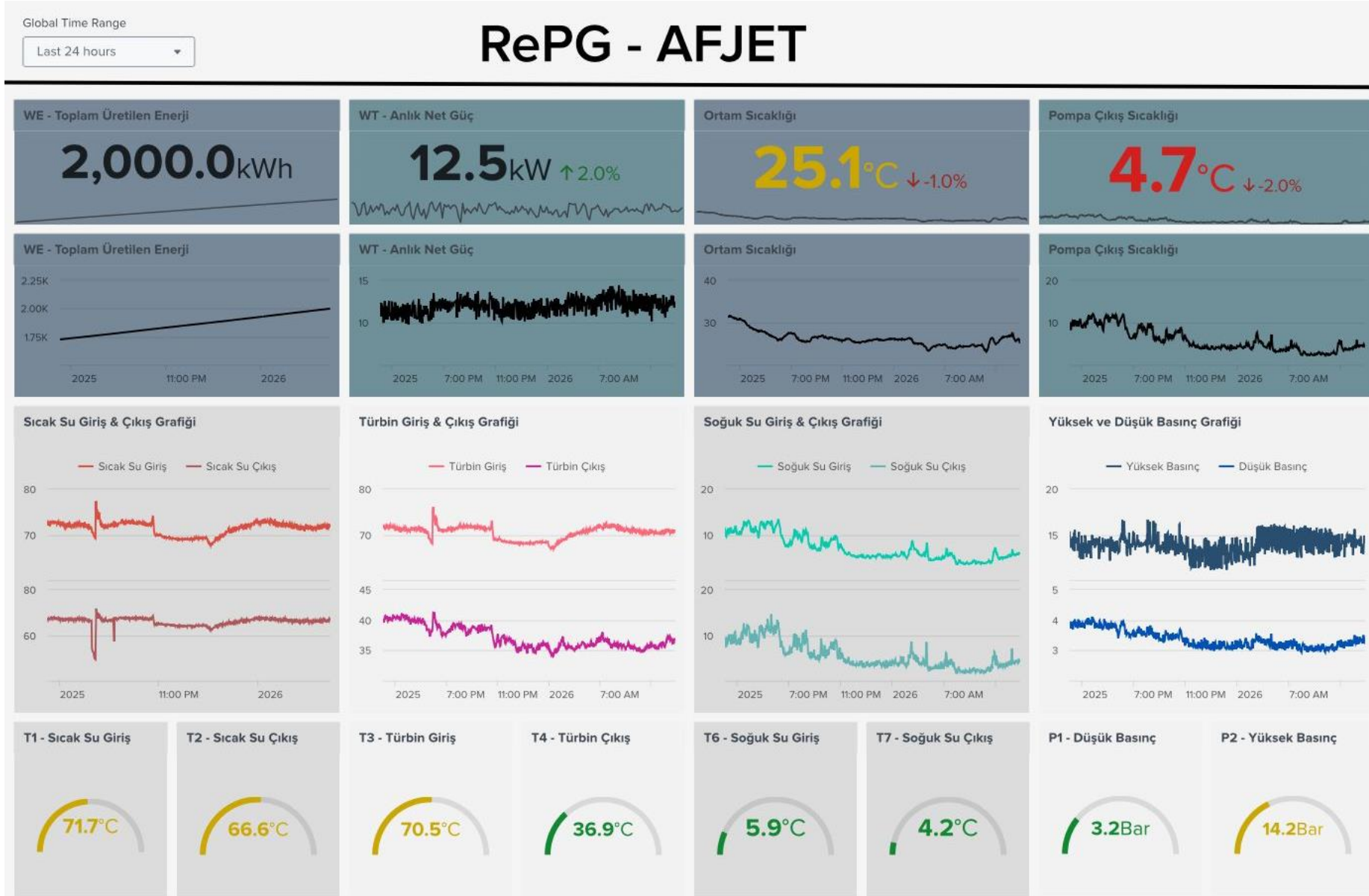
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Monitoring and Remote Control



RePG®



Monitoring and Remote Control



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Role Durumları

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2026-01-01 12:49:31	true	true	true
2026-01-01 12:48:32	true	true	true
2026-01-01 12:47:32	true	true	true
2026-01-01 12:46:32	true	true	true
2026-01-01 12:45:32	true	true	true
2026-01-01 12:44:31	true	true	true

< Prev 1 2 3 4 5 ... Next >

alarmCause

Time	Alarm Cause	Alarm Durum
31-12-2025 23:59:31	0	Alarm Yok
31-12-2025 23:58:31	0	Alarm Yok
31-12-2025 23:57:31	0	Alarm Yok
31-12-2025 23:56:31	0	Alarm Yok

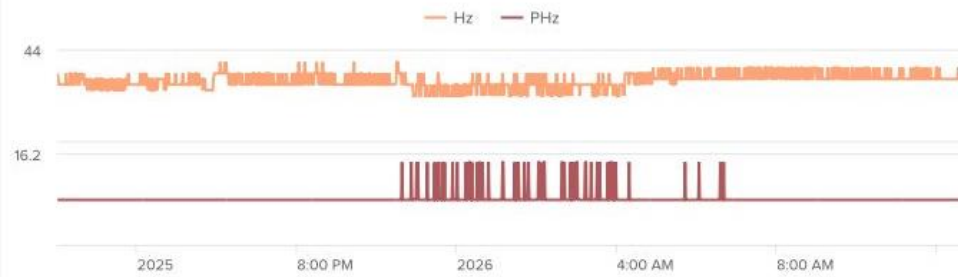
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M1_Status

Time	M1_Status	Cihaz Durumu
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31-12-2025 23:58:31	60	ÜRETİM
31-12-2025 23:57:31	60	ÜRETİM
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31-12-2025 23:55:31	60	ÜRETİM

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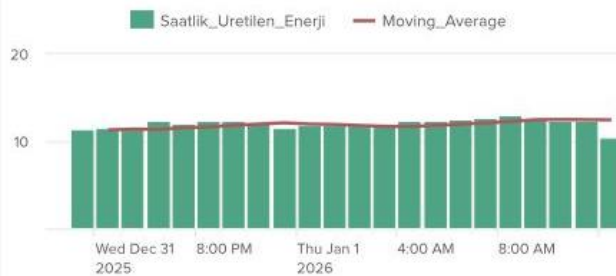
Frekans



Basınç / Hedeflenen Basınç



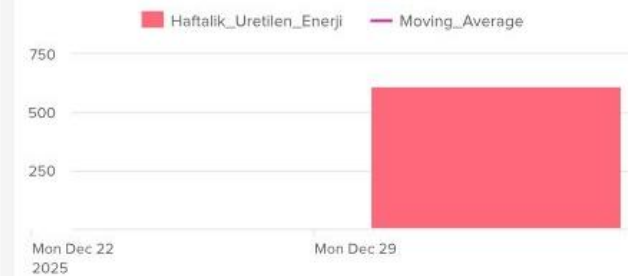
Üretilen Enerji - Saatlik Değişim



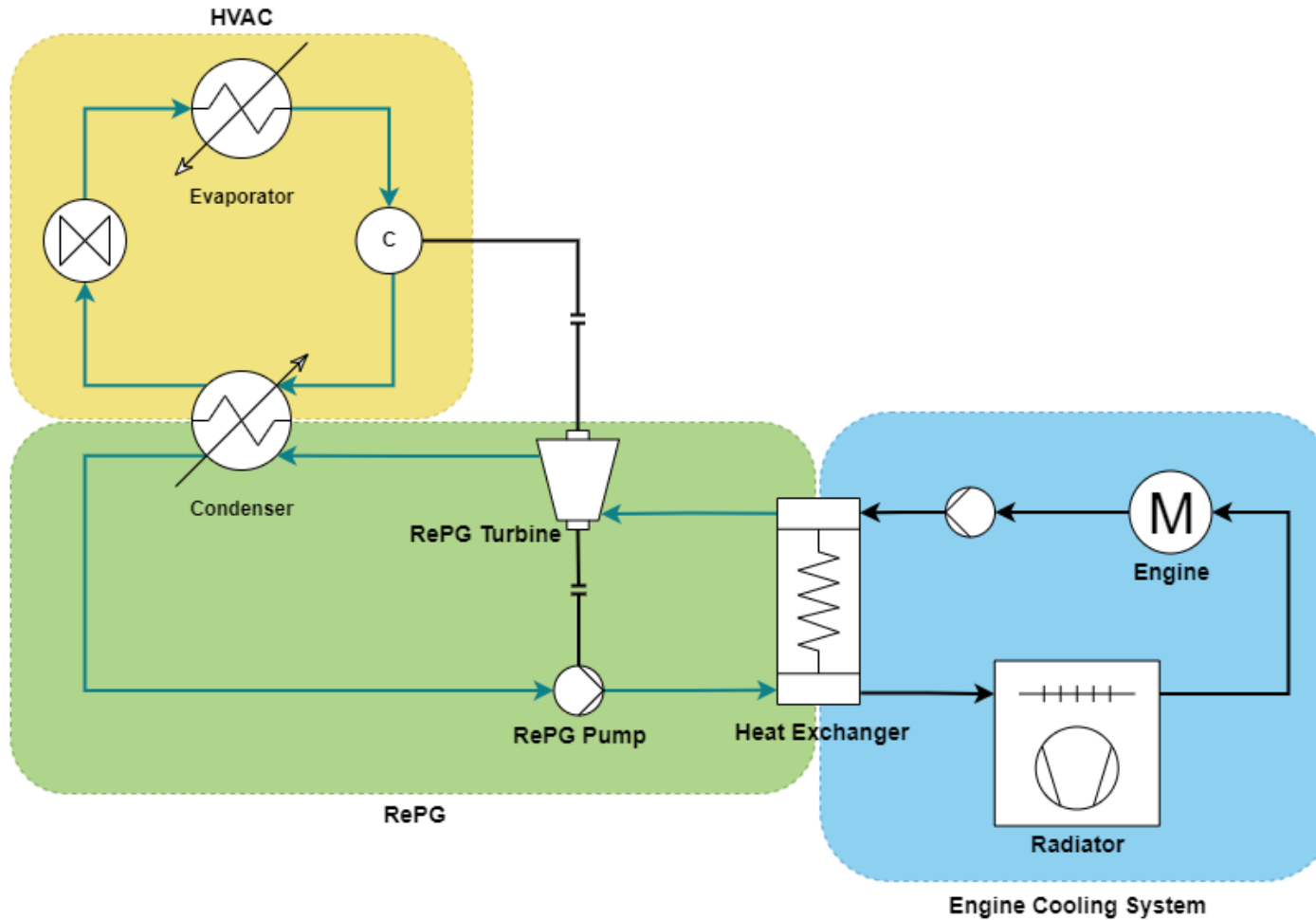
Üretilen Enerji - Günlük Değişim



Üretilen Enerji - Haftalık Değişim



RePG Vehicle & ICE Application



RePG Integrated HVAC and Engine Cooling System

- A heat exchanger and condenser revision is made to the conventional system.
- The heat of the engine coolant is transferred to the RePG system, reducing the radiator capacity and consumption.
- The heating function is performed by RePG. The HVAC system does not need to be running.
- The compressor is driven by the energy produced for the cooling function.
- After the revision, the conventional internal combustion vehicle turns into a hybrid vehicle.
- The electrical energy produced by RePG can be used for battery and battery storage.



RePG AQUA Atmospheric
Water Generators

RePG AQUA Atmospheric Water Generator



- It is produced for use in homes, offices, hotels, villages, towns, cities, industry and agriculture.
- It produces water in open or closed environments.
- It provides access to clean drinking water wherever you want without being connected to the water network.
- AQUA produces an average of 10-10,000 liters of clean drinking water and domestic water per day.
- The amount of water production changes according to the environment and regional weather.
- Min. 160 - Max. 340 W/L energy consumption, it is at least 50% more economical than its competitors.
- RePG AQUA systems have 3 different filtration and filtration stages. These are air filters, tank filters and water filters.
- It cleans the ambient air thanks to HEPA and Carbon air filters.
- The water produced and kept in a 316 stainless steel tank is kept clean with UV and ozone.
- Water health and safety is ensured thanks to filters (Sediment, Carbon, UF, Alkaline, Mineral, UV).
- Management and monitoring can be done with the mobile application.
- It provides the drinking water it produces as hot, cold or warm.
- It does not require any installation.
- It cleans the air of the environment it is in and can produce water by adjusting the humidity rate.
- It has completed the potable testing and approval processes from the Ministry of Health.

RePG AQUA Atmospheric Water Generator Products



10 – 20 – 30
liters/day



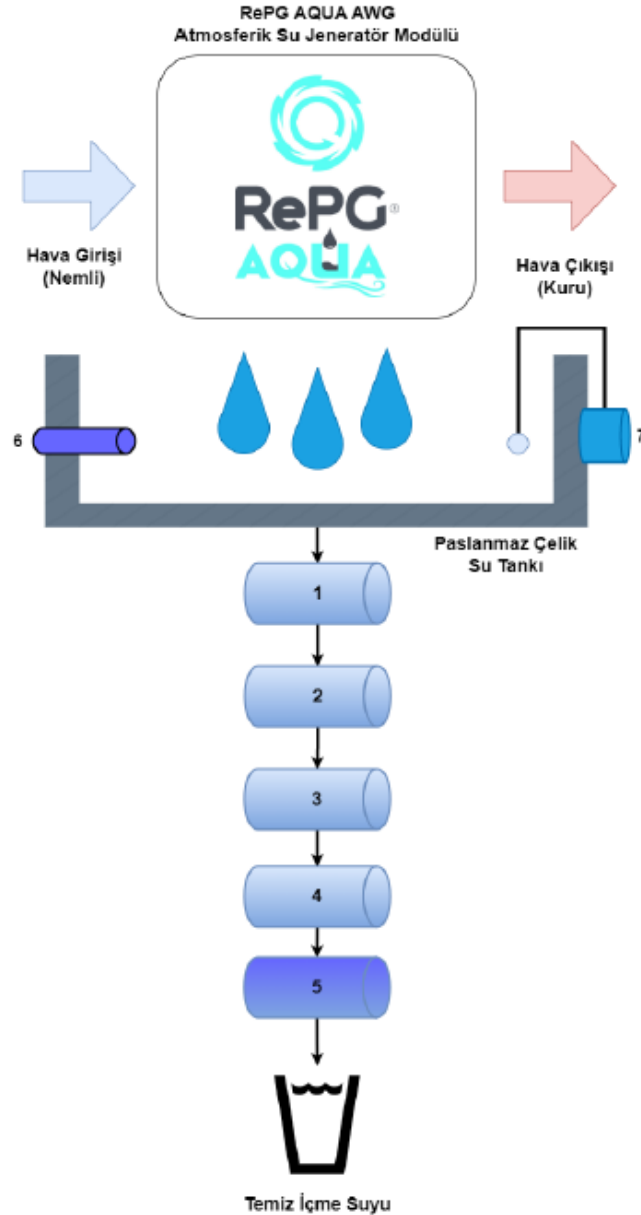
150 – 300 – 450
liters/day



500 – 1.000 – 10.000
liters/day

RePG AQUA Atmospheric Water Generator

Working Principle



- RePG AQUA atmospheric water generator draws the air in its environment into the condenser module with its increased efficiency fan.
- Thanks to the HEPA and Active Carbon Filters in the air intake, the ambient air is cleaned. Microorganisms in the environment and unwanted gases that cause bad taste and odor are prevented.
- In the condenser module, the outdoor air comes into contact with the patented fin design and the water particles in the air are condensed.
- Condensed water grains are collected in a 316 stainless steel water tank. The water kept in the reservoir is regularly cleaned with UV rays and ozone generator. Thanks to the circulation system, water is constantly kept alive.
- While the water in the tank is directed to hot and cold water tanks, it is cleaned, conditioned and mineral supplemented by passing through 5 different filters.

RePG AQUA Atmospheric Water Generator

Innovative Side



Fluid Mixture

RePG Energy uses RePG fluid, which can work much more efficiently than its competitors, with the experience it has gained as a result of its studies on organic refrigerants. Thanks to this fluid, highly efficient water production can be achieved even in very low temperature and humidity conditions (5 C - 10% RH). Under similar conditions, at least 50% more efficient water production can be achieved than its competitors.

Evaporator and Fin Design

The evaporator (the unit where water is condensed) and fin design and materials used in RePG AQUA products are specially produced. Thanks to the patented fin design, water can be condensed much faster. High performance can be achieved with this fin design against the risk of freezing at low temperatures.

Software

Artificial intelligence-supported control software is used to ensure that the system provides highly efficient water production under all environmental conditions. Thanks to the algorithm developed by RePG, the AQUA system dynamically adapts itself to the environment. In this way, energy losses are reduced and all energy is used for water production.

Filtering and Conditioning

The filtration process, which starts with the HEPA and Active Carbon Filter when the air enters the system, continues while it is waiting in the water tank. Auto-circulation is provided at certain periods in order to preserve the vitality of the water. The AQUA system uses twice as many filters as its counterparts during water conditioning and filtration; Provides healthy, safe and delicious drinking water.

Remote Monitoring

Thanks to the mobile application, you can track the tank fill rate, ambient temperature, humidity and air quality information and the expected daily water production amounts under active environmental conditions by scanning the QR code of your device.

Compatible with All Energy Sources

Although the AQUA system can work with 220 V 50 HZ AC city network as standard, it is also designed to work with 380 V 50 Hz AC and 12 V DC power supplies if desired. In this way, it is suitable for use in caravans, boats and vehicles and with PV panels.

RePG AQUA Atmospheric Water Generator

Air Filters



HEPA Filter

It stands for high-efficiency particulate air filter that removes more than 99.9% of airborne particles. This includes dust, dust mites, mold, pollen, bacteria, and can even remove COVID particles from the air. HEPA filters work by pushing air through a fine mesh that traps these harmful particles and prevents them from being released back into the atmosphere. It provides filtering down to 0.3 microns.



Activated Carbon Cassette Filter

Carbon air filters are the most commonly used filters to remove gases. It is designed to filter gases through a bed of activated carbon (also called activated charcoal) and is often used to combat volatile organic compounds (VOCs) released from common household products. They are also used to remove odors from the air, such as the smell of tobacco smoke.

RePG AQUA Atmospheric Water Generator Water Tank Filters

Ozone Generator

Ozone generators are devices that produce ozone (O_3) within a specific system and mechanism and are used to disinfect water. It provides much more efficient cleaning than chlorine with the ozone it produces. Ozone generators, which enable the artificial production of ozone, one of the inorganic molecules, are used for the disinfection of drinking water.

Ozone is a strong oxidizing gas that can be used to make water comply with the necessary hygiene conditions. At 0°C in water, it has a solubility of 1.05 g L^{-1} which means that ozone can react with water approximately 200 times faster than chlorine.



UV Lamp

Water disinfection with UV, which is found in water and can multiply rapidly; It is defined as the destruction or termination of reproduction opportunities of all pathogenic microorganisms (bacteria, spores, parasites), including viruses, that pose harm to human, animal and even plant health.

Water disinfection with ultraviolet (UV) light is achieved using 254 nm wavelength UV-C rays. When UV-C rays come into contact with microorganisms, they damage their DNA through "photo oxidation". All cell activities of the living being whose DNA is destroyed, including reproduction, stop and cell death occurs.



RePG AQUA Atmospheric Water Generator Water Filters

Sediment Filter

Sediment filters are produced from compressed paper and play an important role in the first stage of water purification.

The most basic benefit they provide is that they purify water from the solid substances it contains.

Water containing sediment is both undrinkable and unusable. Therefore, sediment filter; It separates water from insoluble substances such as sand, dust, mud and small stones. It retains these substances and prevents them from going to other filters. It does the preliminary cleaning.

The sensitivity of sediment filters used in RePG AQUA systems is 1 micron. The 1 micron sediment filter eliminates microbes (Cryptosporidium, Giardia) with a diameter of 1 micron or larger.

GAC Carbon Filter

Granular Activated Carbon filter (GAC) is a filter that eliminates bad tastes and odors in water and separates dissolved organic substances and gases from water. In particular, chlorine in water hardens the water and causes a bad taste, and high levels of chlorine are harmful to human health. With the active carbon filter, chlorine in the water is completely purified. All organic substances in the water are cleaned with the GAC Carbon filter. The surface of the activated carbon filter consists of millions of tiny pores. Thanks to these pores, poisonous gases, pesticides and dirt that emit many odors are retained.



RePG AQUA Atmospheric Water Generator Water Filters



Ultrafiltration Membrane

One of the main features of the ultrafiltration system is that it carries out the purification process without using any chemical process. This system, which is especially preferred for cleaning particles, provides water purification with near-perfect purity as it uses thin membrane technology. Ultrafiltration, which is used as a primary process in many different areas, ensures the supply of extremely high quality water, especially in the purification of surface and groundwater. The main purpose of ultrafiltration is to filter microorganisms such as sensitive sediment, bacteria and viruses in water. It is one of the most commonly preferred methods for removing bacteria and viruses, especially in drinking water bottling facilities.

Reverse Osmosis Membrane

The membrane purification filter purifies water by having pores that are one ten millionth of a millimeter in size. Being a semi-permeable membrane filter, it allows it to regulate the hardness of the water and filter the water into molecular structure. It also purifies toxic and chemical substances in water. The membrane filter consists of very small pores. These small pores are surrounded by a semi-permeable membrane substance. In this way, harmful and harmless substances in the water are separated. It ensures that the water is purified to a very good level. The most important feature of this filter is that it only passes water.



RePG AQUA Atmospheric Water Generator

Water Filters



Alkaline and Mineral Filter

The alkaline and mineral filter adds minerals such as calcium, sodium and magnesium to the water produced after purification at a pH value of 7, allowing the pH ratio to increase to 8-8.5. In addition, it purifies impurities with the help of an alkaline filter, making the water higher quality, healthier and more functional. Thanks to the alkaline filter, the minerals our body needs are returned to the water. These are the filters that give the water taste we are used to.

UV Filter

The ultraviolet filter disrupts the cell structures of microorganisms such as bacteria, viruses and fungi in the water with the ultraviolet ray emitted by the UV lamp inside and neutralizes them. The ultraviolet device consists of four parts: stainless steel body, UV lamp cover, UV lamp and control panel. Water enters the stainless steel body, where it is exposed to UV rays and comes out sterile through the filter. The process of rendering harmless microorganisms in water by exposing them to ultraviolet rays of 254 nm wavelength with an ultraviolet disinfection system, disrupting their DNA and RNA structures is called microbiological treatment. Ultraviolet is an effective disinfection method that destroys 99.999% of pathogenic and pyrogenic bacteria, viruses, fungi and other microorganisms that can be found in water. Since no heat or chemicals are used in this method, there is no change in the taste or composition of the water at the end of disinfection.



RePG AQUA Atmospheric Water Generator

User Interface and Mobility



Humidity and Temperature Sensor

With the humidity and temperature sensor in the device, the values of the environment are monitored instantly and retrospectively. In this way, the expected daily water production capacity is calculated. The calculated value is presented to the user via the device interface and mobile application.



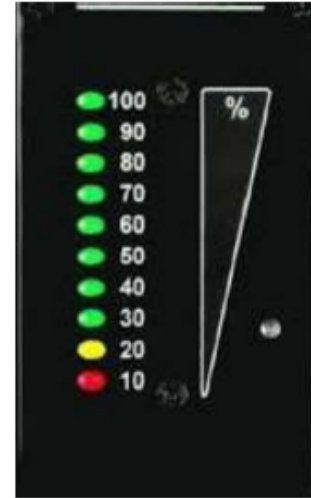
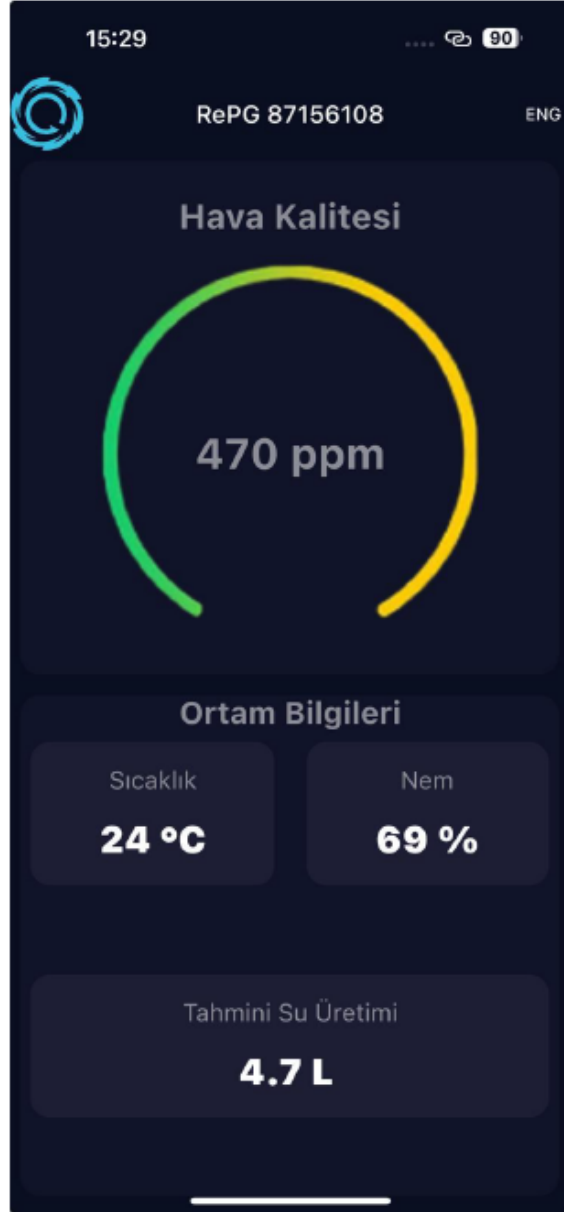
Air Quality Sensor

The RePG AQUA system, which increases the quality of the ambient air by cleaning the elements that negatively affect the ambient air such as viruses, cigarettes, pollen, mold, body odor, bacteria, pets, chemicals and oils, with the HEPA filter system, can provide information to the user about the air quality of the environment.

RePG AQUA Atmospheric Water Generator User Interface and Mobility

Mobile Application

Thanks to the application that can be downloaded from AppCenter and GooglePlay, all parameters can be monitored remotely by pairing the device.



Liquid Level Sensor

Thanks to the liquid level sensor, the filling rate of the tanks is transmitted to the user. These values can be monitored instantly from the mobile application and device interface.



RePCG®

REFERENCE LIST
Energy & Water Products

Hayat Kimya (Official Reference) RePG Exhaust Application

Technical Specifications:

- | | |
|-----------------------|-------------|
| - Installed Power; | 75 kW |
| - Net Power; | 49 kW |
| - Heating Fluid; | Exhaust Gas |
| - Inlet Temperature; | 95 °C |
| - Outlet Temperature; | 80 °C |



Pirelli Prometeon (Official Reference) RePG Flash Steam Application

Technical Specifications:

- | | |
|-----------------------|---------------|
| - Installed Power; | 65 kW |
| - Net Power; | 32 kW |
| - Heating Fluid; | Condens Water |
| - Inlet Temperature; | 95 °C |
| - Outlet Temperature; | 75 °C |



AFJET – Geothermal Reinjection Application

Technical Specifications:

- Installed Power; 15 kW
- Net Power; 12 kW
- Heating Fluid; Geothermal Reinjection Water
- Inlet Temperature; 70 °C
- Outlet Temperature; 65 °C





RePG Geothermal Application

Technical Specifications:

- | | |
|-----------------------|------------------|
| - Installed Power; | 150 kW |
| - Net Power; | 100 kW |
| - Heating Fluid; | Geothermal Water |
| - Inlet Temperature; | 120 °C |
| - Outlet Temperature; | 90 °C |

First Export to Uzbekistan

RePG Stove Application

Technical Specifications:

- Installed Power; 10 kW
- Net Power; 4.2 kW
- Heating Fluid; Stove Waste Water
- Inlet Temperature; 50 °C
- Outlet Temperature; 45 °C



First Export to Uzbekistan

RePG Performance Chart

THERMAL POWER PLANT RePG WASTE HEAT RECOVERY Test Table										5.09.2023
Heat Range	Test No	Hot Water Input	Hot Water Output	Cold Water Input	Cold Water Output	Gross Power	Internal Used Power	Net Power	Gross Efficiency	Net Efficiency
		[C]	[C]	[C]	[C]	[kWe]	[kWe]	[kWe]	[%]	[%]
100C	1	100,1	93,6	26,6	32	6,75	2,25	4,5	8,44%	5,62%
95C	2	94,8	89,2	28	32,8	5,85	1,85	4	8,49%	5,80%
90C	3	90	84,2	28,1	33,1	5,35	1,65	3,7	7,49%	5,18%
85C	4	85,2	79,9	28	32,4	4,95	1,55	3,4	7,59%	5,21%
80C	5	80,1	75,1	28	32,2	4,3	1,4	2,9	6,99%	4,71%
75C	6	75,3	70,8	27,9	31,2	3,4	1,1	2,3	6,14%	4,15%
70C	7	70	66	28	31,1	2,7	0,9	1,8	5,48%	3,66%
65C	8	65,4	62	27,6	29,9	2,05	0,85	1,2	4,90%	2,87%
60C	9	60,7	57,8	26,8	29	1,45	0,55	0,9	4,06%	2,52%

A Battery Company RePG Chimney Application

Technical Specifications:

- Installed Power; 25 kW
- Net Power; 12 kW
- Heating Fluid; Exhaust Gas
- Inlet Temperature; 349 °C
- Outlet Temperature; 130 °C





A Textile Company RePG Compressör Application

Technical Specifications:

- | | |
|-----------------------|----------------|
| - Installed Power; | 6 kW |
| - Net Power; | 4 kW |
| - Heating Fluid; | Compressor Oil |
| - Inlet Temperature; | 95 °C |
| - Outlet Temperature; | 70 °C |



A Plaster Factory RePG Chimney Application

Technical Specifications:

- | | |
|-----------------------|--------|
| - Installed Power; | 25 kW |
| - Net Power; | 15 kW |
| - Heating Fluid; | Water |
| - Inlet Temperature; | 100 °C |
| - Outlet Temperature; | 80 °C |





Renault Master – RePG Vehicle Application

Technical Specifications:

- Installed Power; 2 kW
- Net Power; 1 kW
- Heating Fluid; Engine Coolant Water
- Inlet Temperature; 85 °C
- Outlet Temperature; 60 °C

An Insurance Company



Head Office Building RePG Solar Energy Application

Technical Specifications:

- Installed Power; 2 kW
- Net Power; 1 kW
- Fluid; Oil
- Inlet Temperature; 85 °C
- Outlet Temperature; 50 °C

A Plaster Company



Plaster Factory İstanbul RePG Solar Energy Application

Technical Specifications:

- Installed Power; 2 kW
- Net Power; 1 kW
- Fluid; Water
- Inlet Temperature; 85 °C
- Outlet Temperature; 50 °C

* RePG Solar Energy Application converts the thermal energy taken from vacuum tube solar panels into electrical energy and also provides the heat required for heating the buildings.

A Mobile Communication Company



Adana

RePG Solar Energy Application

Technical Specifications :

- Installed Power; 5 kW
- Net Power; 2,5 kW
- Fluids used in panels; Water
- Inlet Temperature; 90 °C
- Outlet Temperature; 50 °C



RePG Energy Factory

RePG Solar Energy Application

Technical Specifications :

- Installed Power; 6 kW
- Net Power; 4 kW
- Fluids used in panels; Water
- Inlet Temperature; 90 °C
- Outlet Temperature; 50 °C

*RePG Solar Energy Application converts the thermal energy received from vacuum tube solar panels into electrical energy and also provides the heat required to heat buildings.

A Pipe Manufacturer Company



Borusan Mannesmann Gemlik Factory RePG Compressor Application

Technical Specifications:

- Installed Power; 6 kW
- Net Power; 4 kW
- Heating Fluid; Compressor Oil
- Inlet Temperature; 95 °C
- Outlet Temperature; 65 °C

A Plaster Company



Plaster Factory RePG Compressor Application

Technical Specifications:

- Installed Power; 4 kW
- Net Power; 2 kW
- Heating Fluid; Compressor Oil
- Inlet Temperature; 90 °C
- Outlet Temperature; 60 °C

*RePG Compressor Application converts the thermal energy of the hot oil in the oil circuit of the compressors into electrical energy. It provides additional savings by reducing the oil cooling load of the compressors.

A Thermal Resort



İzmir

RePG Geothermal Application

Technical Specifications:

- Installed Power; 25 kW
- Net Power; 15 kW
- Heating Fluid; Geothermal Water
- Inlet Temperature; 104 °C
- Outlet Temperature; 85 °C

A Thermal Resort



RePG Geothermal Application Beta Customer Used Case

Technical Specifications:

- Installed Power; 75 kW
- Net Power; 50 kW
- Heating Fluid; Geothermal Water
- Inlet Temperature; 115 °C
- Outlet Temperature; 90 °C

*RePG Geothermal Application converts the thermal energy in geothermals into electrical energy.

A University in Turkey



University

RePG Solar Energy Application

Technical Specifications:

- Installed Power; 2 kW
- Net Power; 1 kW
- Heating Fluid; Oil
- Inlet Temperature; 90 °C
- Outlet Temperature; 50 °C

A Hotel in Turkey



Hotel Project

RePG Natural Gas Boiler Application

Technical Specifications:

- Installed Power; 10 kW
- Net Power; 6 kW
- Heating Fluid; Water
- Inlet Temperature; 85 °C
- Outlet Temperature; 80 °C

*RePG Natural Gas Boiler Application generates electrical energy with the heat it provides from the natural gas boiler used in centrally heated buildings, sites and hotels.

RePG AQUA 1.000 Liters/day



Flowmeter Dashboard

Current flow (L/min)	Last 24h (L)	Since last reset (L)	Last 30d (L)
0.00 L/min	113.865 L	2163.372 L	2199.384 L
Total (L)	Last reset		
2199.189 L	07.11.2025 19:15:53		

Ege Vitrikiye RePG AQUA Application

Technical Specifications:

- Installed Capacity 1.000 l/d (30C-%80RH)
- Annual Average 400 l/d (İzmir, Turkey) (17C-%60RH)