



RePG Patented Advanced Low Temperature (55-200°C) Energy Production Systems

● Electricity ● Heating ● Cooling

RePG offers patented innovative solutions designed to ensure maximum energy conversion from geothermal sources. RePG systems, specifically designed for low-temperature geothermal fields, generate electricity, heating, and cooling from brines in the temperature range of 55-200°C.

Patented Advanced Turbine

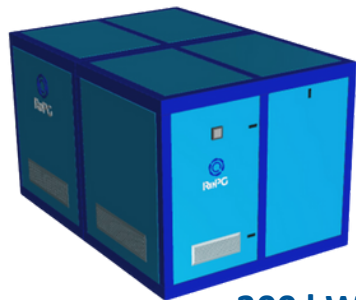
Thanks to its advanced turbine technology, the system can generate positive electricity even at very low temperatures with a ΔT of only **30°C** above ambient temperature.

Zero Emissions

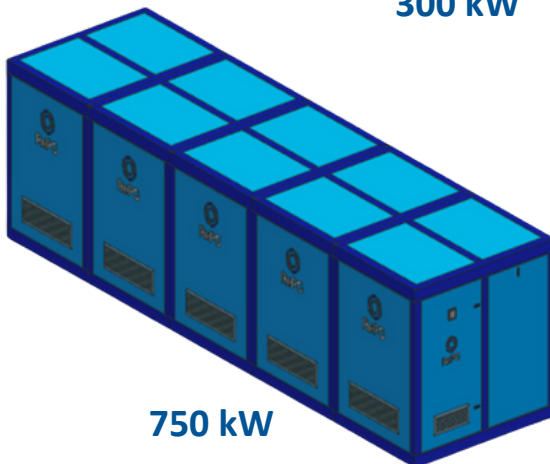
By utilizing 100% renewable and locally sourced energy technology, it contributes to the economy and environment with zero carbon emissions.

Modular and Easy Integration

The system can be quickly and flexibly integrated into geothermal facilities. It is customizable according to field conditions and can operate in both series and parallel configurations, ensuring compatibility with MACRO and MICRO modules.



300 kW



750 kW



Capability to Operate at Low and High Capacities

The system supports energy production ranging from 1 kWh to 1 MWh, providing benefits in electricity generation, heating, and cooling applications.

Short Payback Period

Investment payback period of 1 to 3 years.

Plug-and-Play and Relocatable Design

Modular installation allows easy setup and use. The system can be effortlessly relocated and connected to a different heat source without requiring special installation procedures.

Remote Monitoring and Control System (IoT)

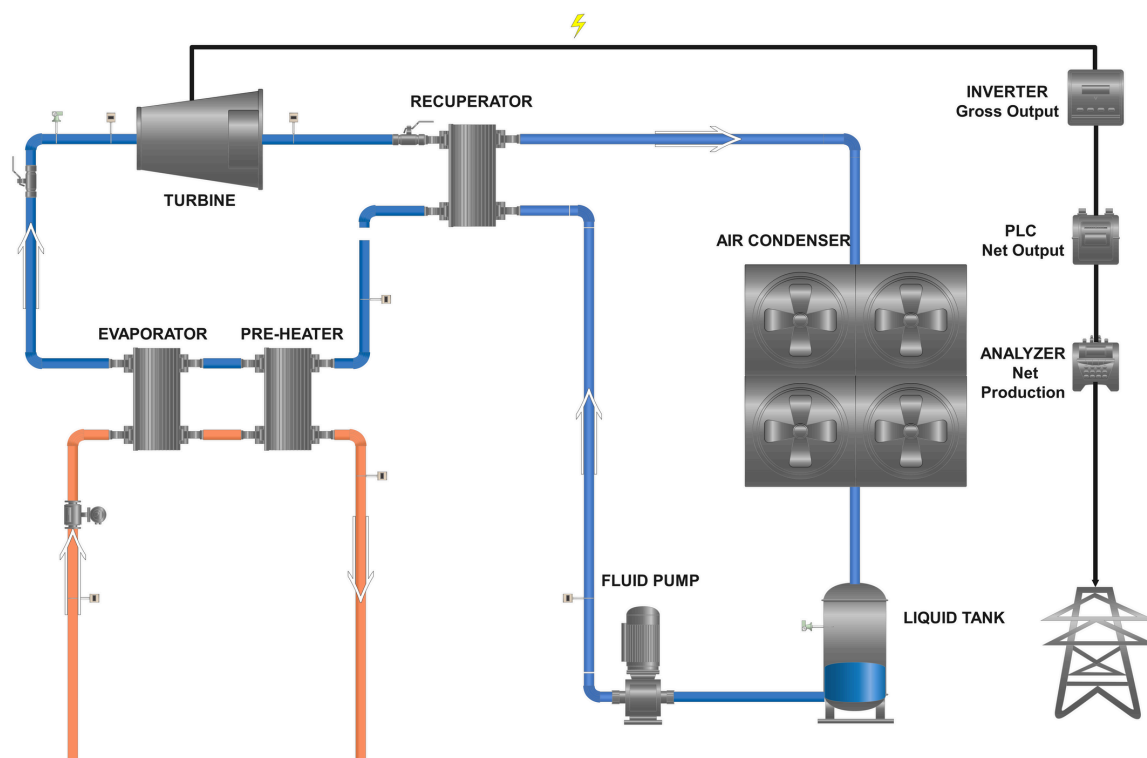
With its remote control and management software, you can monitor all system parameters—including generated energy, pressure, temperature, and total efficiency—in real time from your computer or mobile device.

On-Grid, Off-Grid, and Hybrid Installation

Designed to adapt to your location, it offers the flexibility of On-Grid and Off-Grid connectivity.

RePG SYSTEM

WORKING PRINCIPLE



FACTS & FIGURES

Energy Production Capacity	1-25 kWh	25-50 kWh	50-75 kWh
Heat Transfer Fluid	Water/Oil/Gas	Water/Oil/Gas	Water/Oil/Gas
Fluid Temperature	55-200 °C	55-200 °C	55-200 °C
Heat Transfer Fluid Connection	1-2" – Threaded or Flanged	2-4" – Threaded or Flanged	4-6" – Threaded or Flanged
Working Pressure	Max. 45 bar	Max. 45 bar	Max. 45 bar
Operating Frequency	50-60 Hz	50-60 Hz	50-60 Hz
Working Voltage	400 VAC	400 VAC	400 VAC
Phaze	3	3	3
Dimension	1750x2000x2000	2320x2750x2500 mm	2320x3500x3000 mm
Weight	1250 kg	3000 kg	5000 kg



APPLICATION AREAS



Factory Waste Heat Applications



Geothermal Heat Applications



Ship, Chimney and Boiler Compressor Oil Waste Heat Applications



Engine Jacket Water and Exhaust Applications



Flash Steam Heat Applications



Process Water Waste Heat Applications



Site, City Heating Applications



Biomass Power Plant Waste Heat Applications



Solar Collector and CSP Applications



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