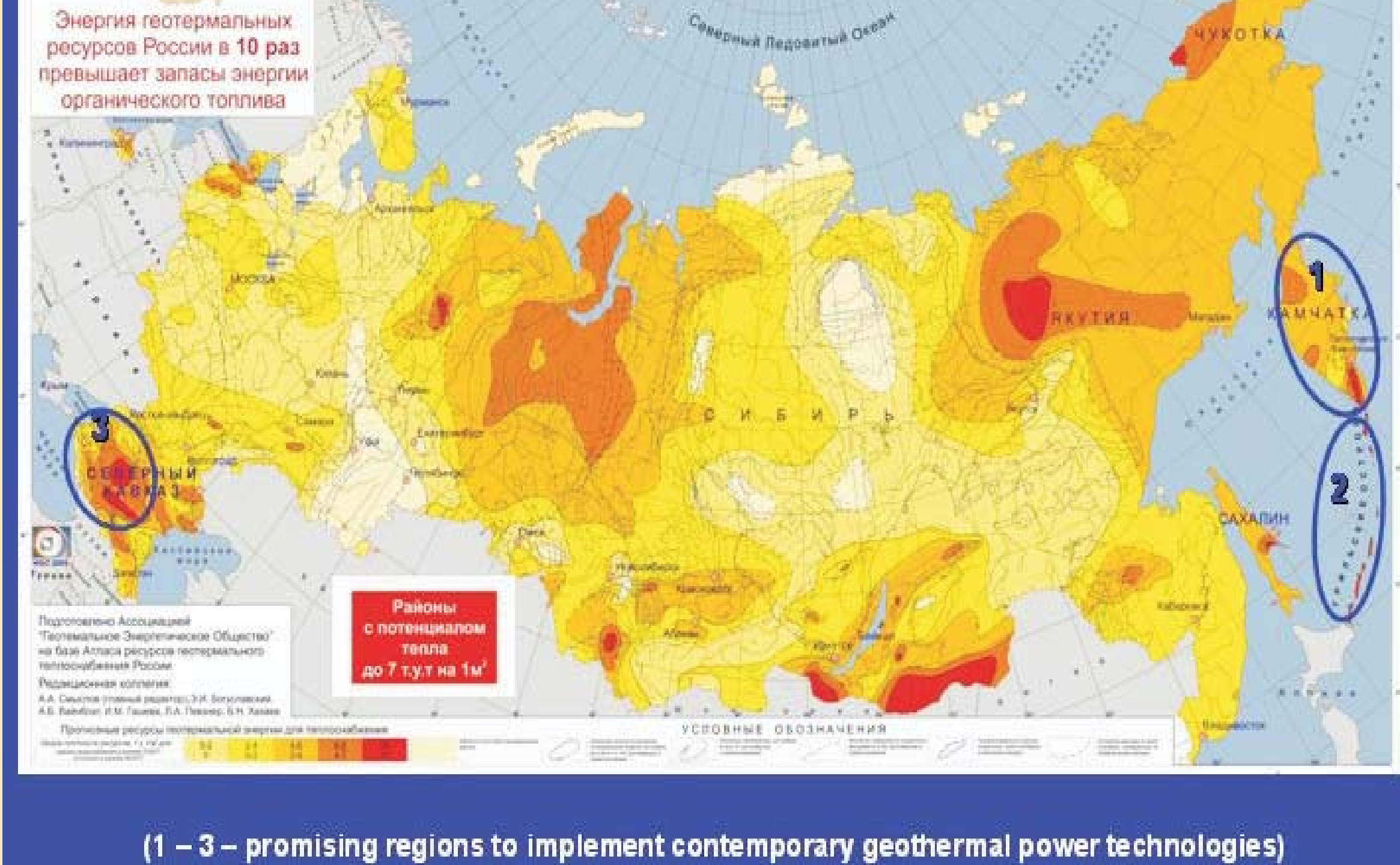
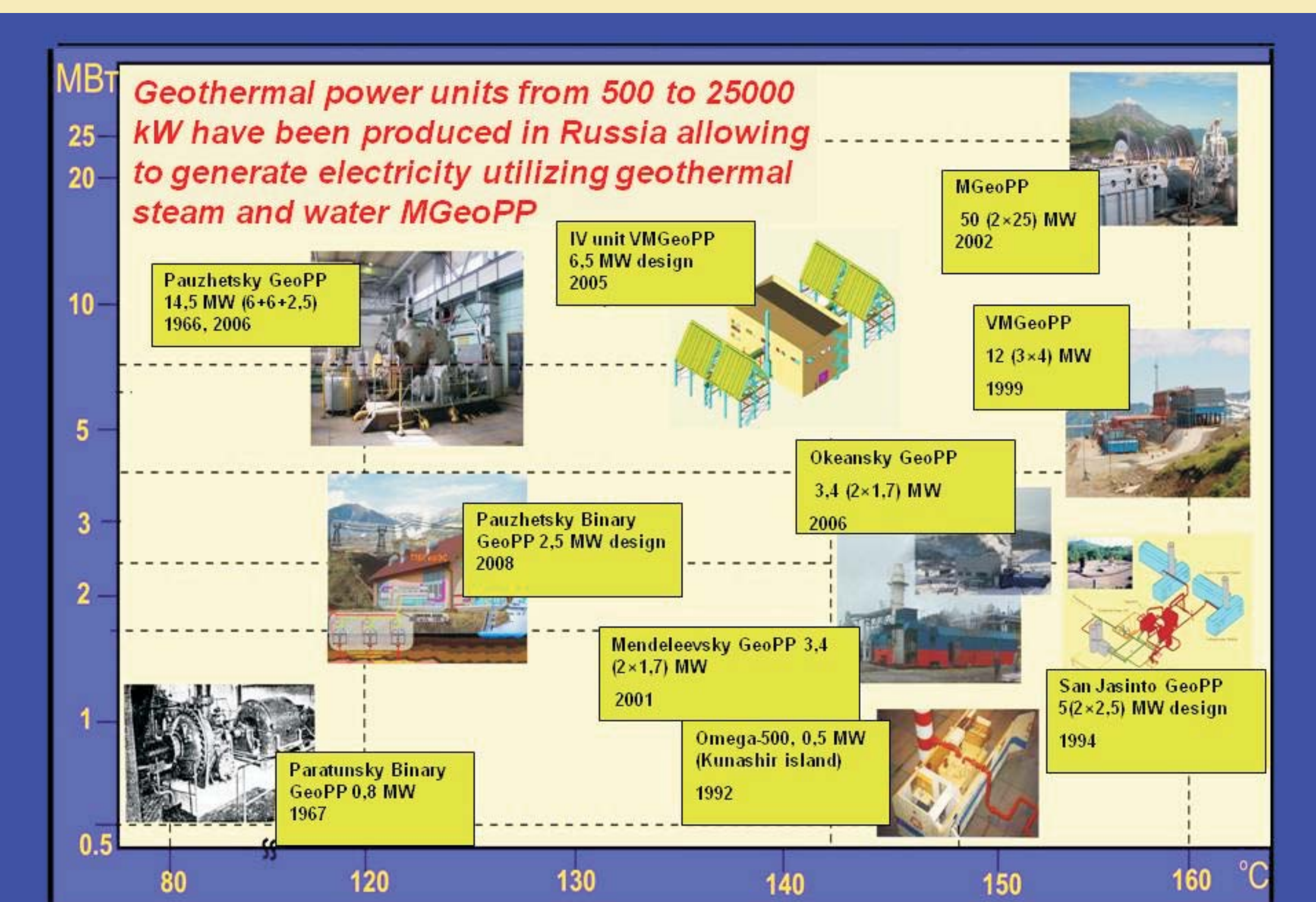


Alexander I. Nikolskiy, Sergey D. Ryabokon, Grigory V. Tomarov, Valery N. Semenov, and Andrey A. Shipkov

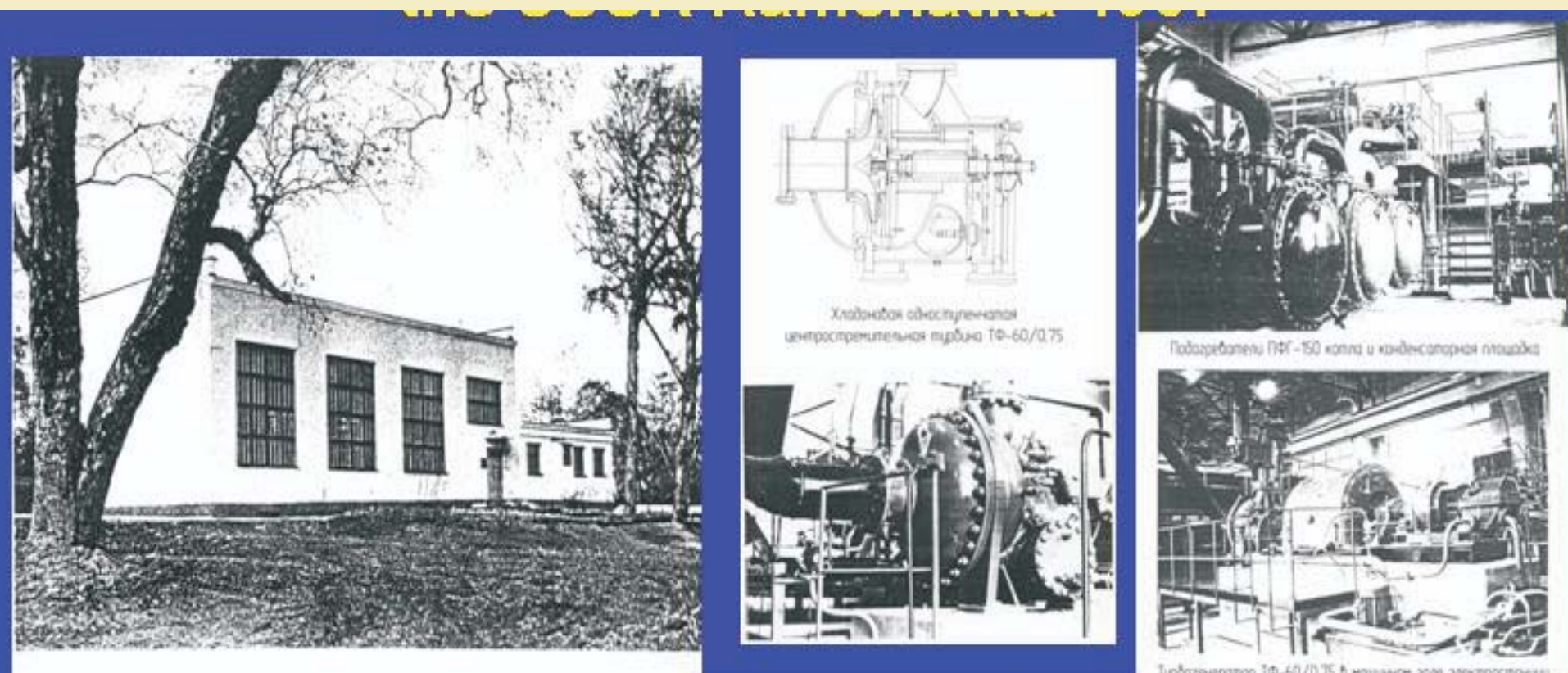
Geothermal resources of Russia



Russian Geothermal Power Engineering



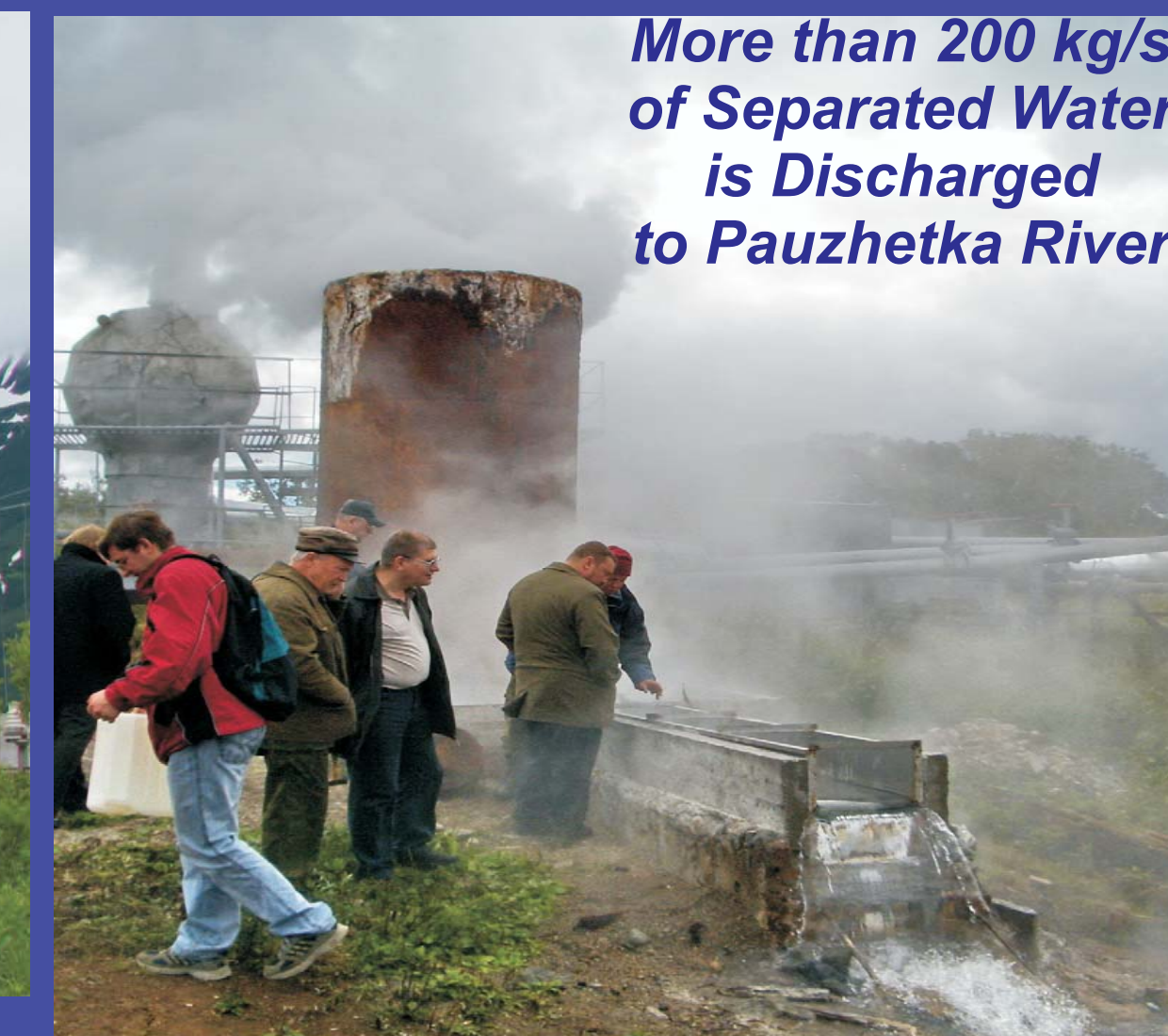
World Pioneer Binary Geothermal Power Plant Built in the Kamchatka (1967)



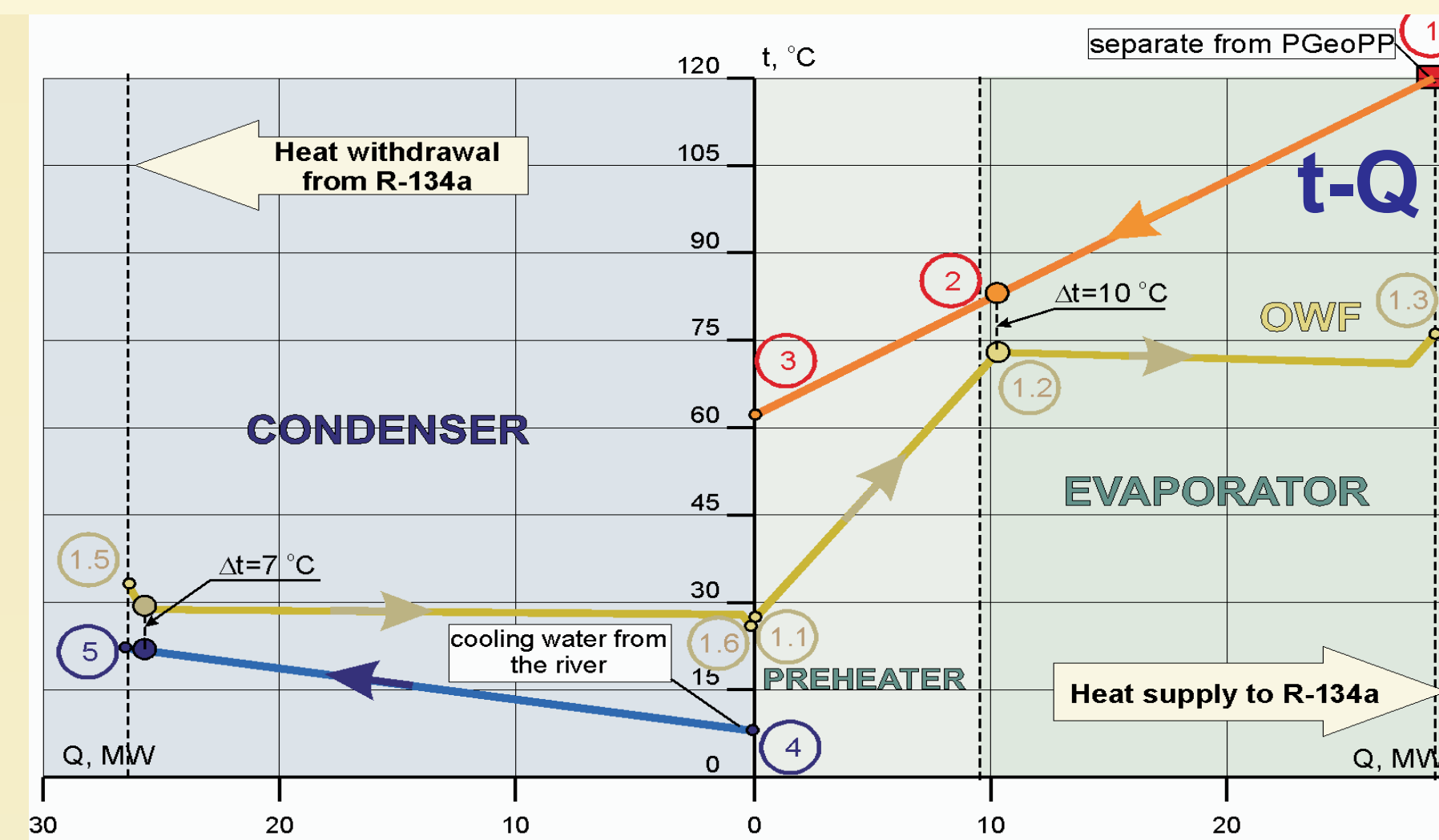
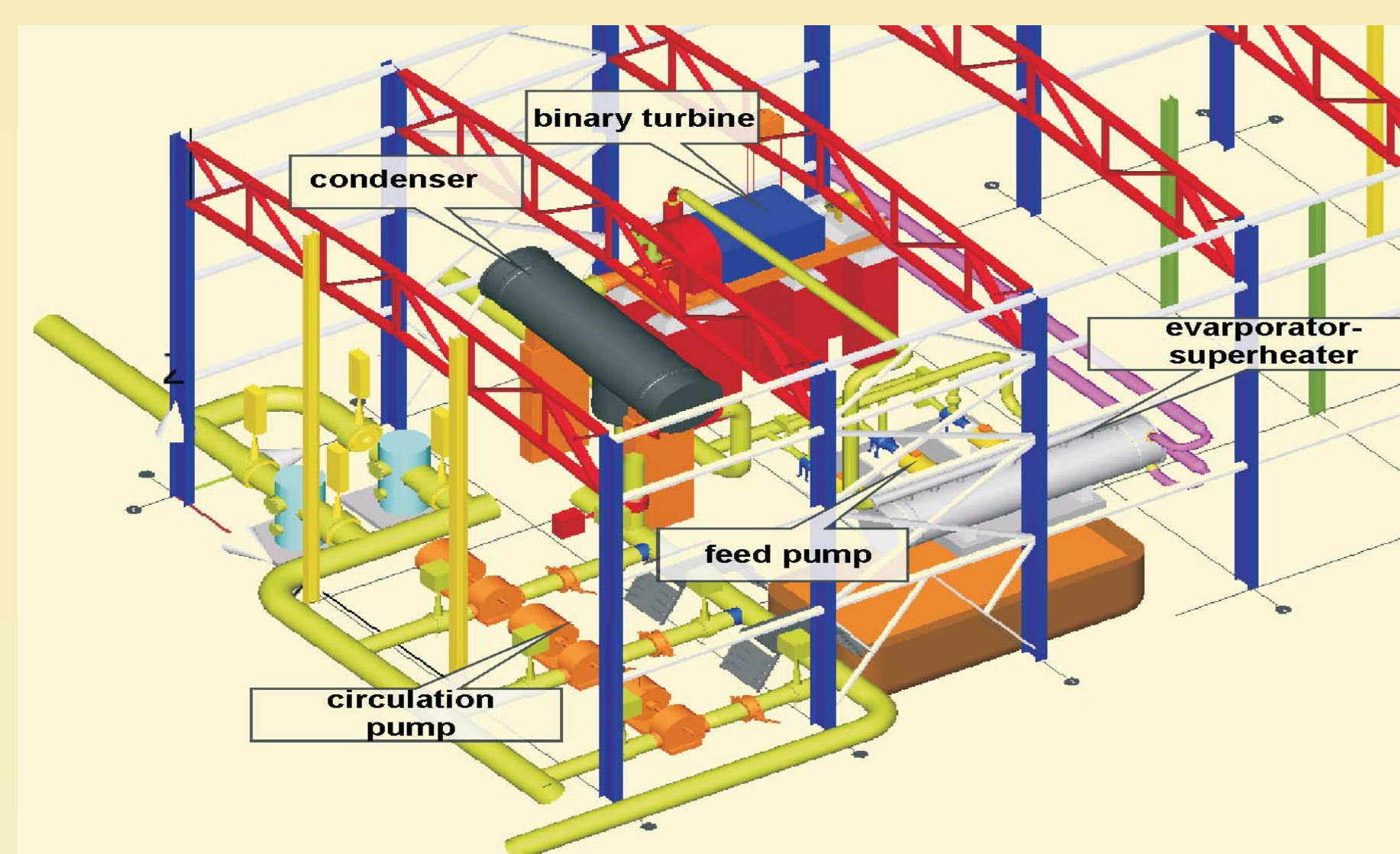
Technical Characteristic of the Station:

Working Fluid (WF)	R-12
Power Supply to the Customers	500 kW
Generator Power	720 kW
Water Inlet Temperature	90°C
Heating Water Flow Rate	200 m³/hr
Cooling Water Temperature	5°C
Cooling Water Flow Rate	1500 m³/hr
R-12 Pressure at the Turbine Inlet	14 at.
R-12 Pressure at the Turbine Outlet	5 at.
Internal Power Efficiency of the Turbine	0,8

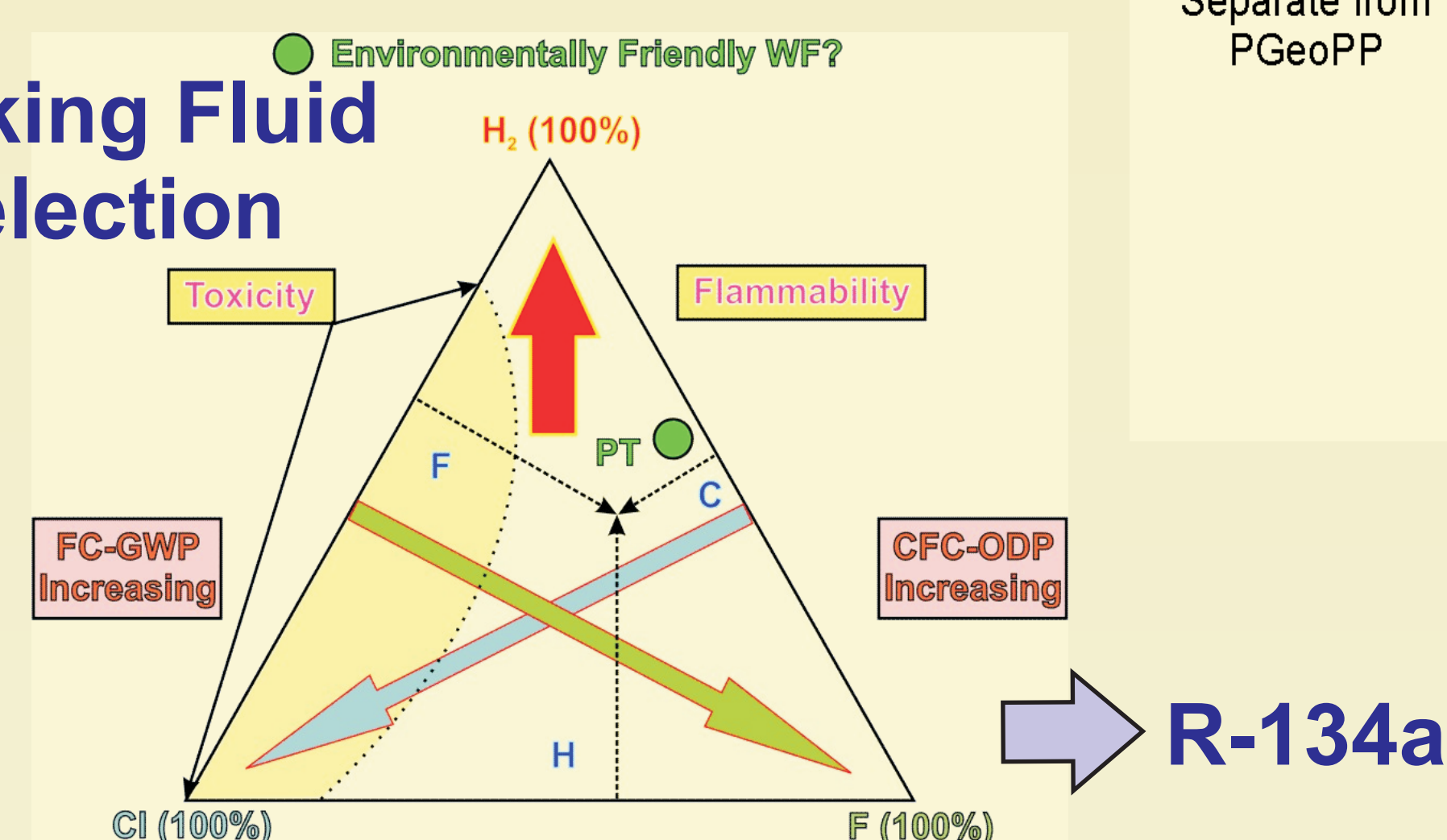
KAMCHATKA. Pauzhetsky Binary Geothermal Power Plant, 2,5 MW_e. Pilot Project



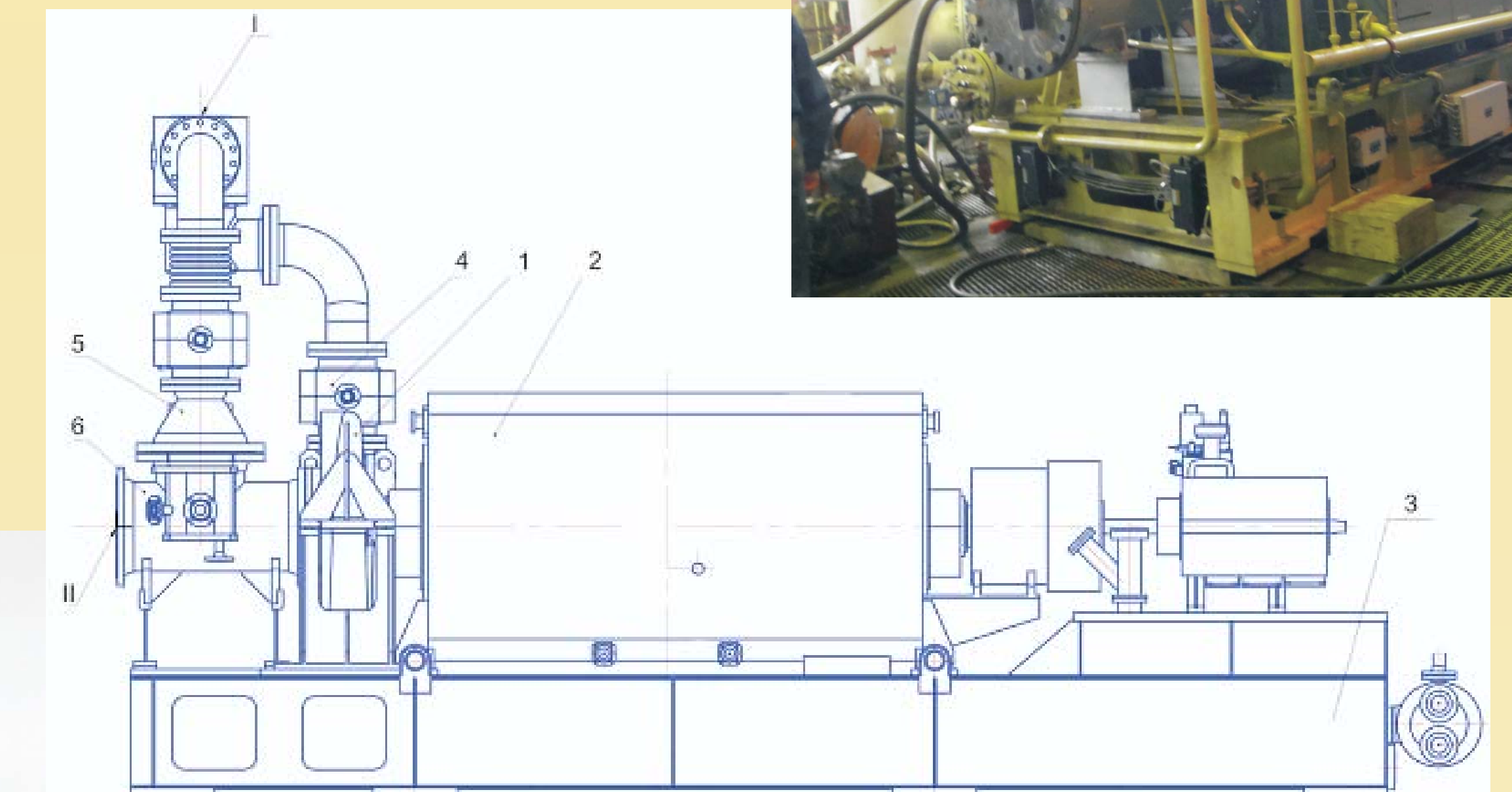
Installed Power 2,5MW_e
Intel Water Temperature 120 °C
Outlet Water Temperature 63 °C
Thermal Water Consumption 120 kg/s
Cooling Water Consumption 1500 m³/hour



Working Fluid Selection



Turbogenerator



Evaporator



Condenser

