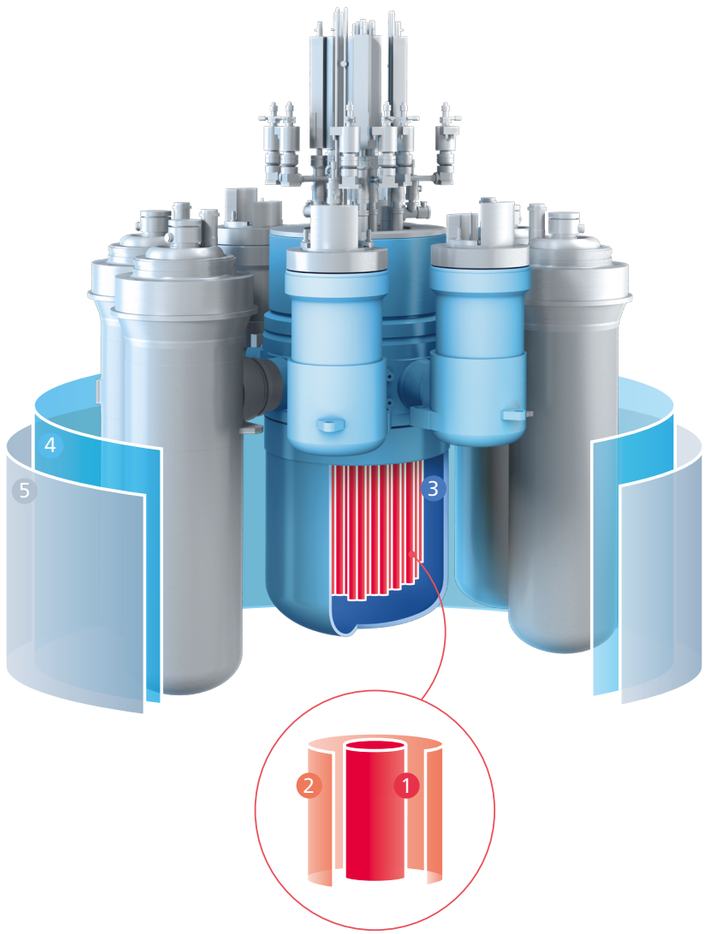
Live support of **130 000 people**



AFRIKANTOV
OKBM
ROSATOM

KLT-40S

A reactor plant for the floating nuclear power plant

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KLT-40S

- Designed by JSC “Afrikantov OKBM”
- Based on the commercial plant for atomic icebreakers
- Experience in creation of RPs for icebreaker fleet since 1954

Nominal rating

2×35 MW
of electric power

2×25 Gcal/h
of thermal power

Possible range

44÷77 MW
of electric power

0÷146 Gcal/h
of thermal power

40
years of operation

12
years between repairs

Defense-in-depth protection

1. fuel composition
2. fuel pin cladding
3. primary circuit
4. RP containment
5. safety enclosure

The floating nuclear power station “Akademik Lomonosov” is the energy source of new generation.

The floating power unit with two reactor plants KLT-40S is the main element of the station, which is under construction in the ship building plant and delivered by sea to the operation location, where only auxiliary facilities are erected.

- First criticality was in 2018
- Commissioning was in 2019

The Russian Federation is the technological leader in the field of floating power plants. At the present, the second generation of the floating power plants, the optimized floating power unit (OFPU), is under development.

APPROVED IAEA

Meets all the reliability and safety requirements of the International Atomic Energy Agency.

- Self-actuating devices are usedto start the safety systems
- Passive safety systems are used
- Power generation without CO_2 release

Heat supply to the populated areas

Feasibility to install a desalination module

Power supply to the remote territories and industrial objects forced to use autonomous power generation