

Exclusion of the Barents Hot Spot

Karelia K4 Drinking water quality in water supply system of Petrozavodsk



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- ***Problem: Petrozavodsk water was strongly colored by humic substances and characterized by high concentrations of iron, high levels of suspended organic matter and low alkalinity***
- **The existing water treatment system has been upgraded in two steps: 2006-2010 and 2009-2013.**

The total cost for these projects was almost 1,2 billion RUB and the objectives were:

- to improve treatment of raw water and to reduce its colour to acceptable levels

-to construct a station for UV treatment for disinfection of drinking water

-to improve the wastewater treatment

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- **Results:**

The quality of water supplied by “Petrozavodsk communal systems” (PKS) to the city pipeline network now is in line with all sanitary-epidemiological requirements and hygienic standards of the current Russian legislation

(SanPin 2.1.4.1074-01)

- **Further improvements:**

For the period 2016-2019 additional improvements of the water treatment system of Petrozavodsk as well as upgrading the wastewater treatment to HELCOM standards are proposed.

Everyday monitoring and maintenance for the drinking water treatment facilities and process is very important to ensure the good quality of produced drinking water.

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- It is planned that several organizations will support the further project development:
 - ✓ OJSC «Petrozavodsk communal systems» - 25,9 mln. RUB
 - ✓ NEFCO credit - 360 mln. RUB
 - ✓ Grant of the Finnish Ministry of Environment - 288 mln. RUB
 - ✓ Federal budget - 254 mln. RUB
 - ✓ Local budgets - 53,6 mln. RUB

