

RUSSIAN PROJECTS



Novy Port¹



Messoyakha¹



Prirazlomnoye



Kuyumba¹



Chonsky

PRMS hydrocarbon reserves (proven + probable), mn TOE

188.9 (116.6 + 72.3)

71.8 (10.9 + 60.9)

58.0 (25.9 + 32.1)

123.3 (9.6 + 113.7)

78.0 (13.9 + 64.1)

Stake of Gazprom Neft

90%

50%

100%

50%

100%

Start of commercial production → attainment of projected capacity

2016 → 2021

2016 → 2022
2022 → 2025

2014 → 2023

2018 → 2032

2024 → 2024

Projected capacity, mn t of oil per year

8.0

7.1

4.8

5.45

n/a

Hydrocarbon production in 2016 (oil, mn t and gas², mn m³, DEC³)

2.96 (2.9 and 51)

0.36 (0.36 and 0)

2.19 (2.15 and 45)

0.04 (0.04 and 0)

0.03 (0.03 and 0)

- > **Milestones of 2016:**
 - > launch of infrastructure to ensure annual oil exports of up to 5.5 mn TOE by sea;
 - > successful implementation of a technological plan to drill complex wells and conduct hydraulic fracturing, and the drilling of the longest horizontal wellbore (2,000 m) of all wells previously drilled at the subsidiary.
- > **Plans for 2017:**
 - > complete construction on a compressor station with a complex gas treatment unit, inject gas into the reservoir and make a decision on the monetisation of the gas;
 - > determine the technical feasibility of the option of monetising condensate and conducting marketing research;
 - > build and launch a gas-turbine thermal power plant.

- > **Milestones of 2016:**
 - > start of the commercial development of the East Messoyakha license area and start of oil delivery to the Transneft PJSC pipeline system (September);
 - > coordination of technical and technological solutions for gas injection projects, and start of design and survey work;
 - > customs duty exemption obtained.
- > **Plans for 2017:**
 - > design and ordering of equipment for a compressor station with a gas treatment unit;
 - > drilling under abnormally high reservoir pressure;
 - > construction of wells using Fishbone technology with wellbore casing.

- > **Milestones of 2016:**
 - > 3 millionth tonne of ARCO oil produced;
 - > 32 oil tankers shipped;
 - > shift camp put into operation;
 - > modernisation of an offshore ice-resistant fixed platform (OIRFP).
- > **Plans for 2017:**
 - > complete a programme to build four horizontal wells;
 - > transition to the use of hydrocarbon-based solutions when drilling wells;
 - > implementation of a sootless APG flaring project;
 - > implementation of a pilot testing plan and field performance of spare parts, tools and accessories for the OIRFP as part of an import substitution programme.

- > **Milestones of 2016:**
 - > design and survey work completed for the main 'Early Oil' on-site facilities;
 - > construction and installation work completed for the 'Early Oil' facilities.
- > **Plans for 2017:**
 - > start of oil delivery to the Transneft PJSC pipeline system;
 - > obtain an export duty exemption;
 - > well testing under the 'Early Oil' programme;
 - > construction of a central gathering facility (CGF) and crude oil delivery and acceptance point (CODAP) with first phase capacity of 1.3 mn t.

- > **Milestones of 2016:**
 - > well workover performed with hydraulic fracturing at one well on terrigenous reservoirs;
 - > transition to day rate, contracting of services and drilling of a well under day rate conditions;
 - > 1,200-m horizontal sidetrack well drilled at the Ignyalinsky license area without accidents or complications with an on-the-fly adjustment of the borehole trajectory;
 - > successful hydraulic fracturing was performed at the Ignyalinsky license area with a five-fold increase in the oil flow rate.
- > **Plans for 2017:**
 - > confirmation of the effectiveness of hydraulic fracturing based on well workover with hydraulic fracturing at two existing wells in terrigenous reservoirs;
 - > multi-stage hydraulic fracturing at the project's first horizontal well;
 - > drilling of a second horizontal well with two pilot holes;
 - > completion of field data analysis on the interpretation of seismic data at the Bolshaya Medveditsa site.

FOREIGN PROJECTS



SeverEnergy¹



Northgas¹



Dolginskoye



Badra¹



Kurdistan¹

Garmian Shakal Halabja

503.5 (324.9 + 178.6)

221.8 (180.3 + 41.5)

No estimate conducted

22.4 (10.5+11.9)

0.8 (0 + 0.8)

46.67%

50%

100%

30%

40% 80% 80%

2012 → 2016

2001 → 2015

2027 → n/a

2014 → 2019

2015 → 2020

14.84 mn TOE

4.95 mn TOE

n/a

1.71

1.2

13.48

(0.115 and 12,089 and 3.653)

4.59

(0 and 5,064 and 0.519)

— (-)

0.78 (0.78 and 4.2)

0.09 (0.09 and 0)

> Milestones of 2016:

- > start of commercial operation of the UPM-50 methanol production and regeneration unit at the Urengoykoye oil and gas condensate field (OGCF);
- > design documentation for the oil infrastructure of Yaro-Yakha transferred to the State Expert Evaluation Department.

> Plans for 2017:

- > completion of the design and start of construction and installation work on the oil component of the Yaro-Yakha OGCF;
- > launch of the booster compressor station at the Samburgskoye OGCF.

> Milestones of 2016:

- > preparatory measures for 3D seismic survey.

> Plans for 2017:

- > 3D seismic survey;
- > search for a partner to jointly implement the project.

> Milestones of 2016:

- > 3 millionth tonne of oil produced;
- > 5 oil tankers shipped;
- > drilling completed and 5 wells put into operation;
- > launch of priority infrastructure facilities for a central gathering facility, camp and the third oil treatment processing line.

> Plans for 2017:

- > launch of a gas plant and export gas pipeline;
- > adjustments to the final development plan and adoption of a decision on the drilling of additional wells.

> Milestones of 2016:

- > operating functions for the Sarkala field transferred to Gazprom Neft from WZL;
- > piping and instrumentation diagram for the Sarkala field endorsed by the Ministry of Natural Resources of the Kurdish Autonomous Region;
- > 3D interpretation of seismic works completed at the northwest Shakal block based on which the geological model was updated and the resource base was reassessed;
- > standard 2D interpretation of seismic work completed at the Halabja block and the conceptual geological model of the block was updated.

> Plans for 2017:

- > well workover of Shakal-1 (hydraulic fracturing of Lower Jaddala);
- > drilling of a well and preparatory work to expand the oil treatment unit at the Sarkala field.

¹ Data given taking into account Gazprom Neft's stake in the project.

² Gas production consists of total commercial gas and gas used for internal needs.

³ Gas condensate in the projects of SeverEnergy and Northgas.