



Government
of the Chukotka
Autonomous Region

CONSTRUCTION PROJECT

WIND POWER STATIONS

Location: Airport area, Pevek

Chukotka Region



ELECTRIC POWER INDUSTRY



Chukotka Autonomous Region

CONSUMPTION IN 2022,
MLN KWH

AVERAGE ANNUAL
GROWTH from 2018
to 2024, %

INSTALLED CAPACITY IN
2022, MW

AVAILABLE CAPACITY IN
2022, MW

ELECTRICITY SUPPLY TO CONSUMERS		818,0			
Energy grid		574,9	4,62%		
1	Chaun-Bilibino energy center	376,9 (100%)	6,12%	136 (100%)	97 (100%)
	• Chaunskaya CHPP	62,2 (17%)		30 (22%)	30 (31%)
	• Bilibino NPP	120,6 (32%)		36 (26,5%)	36 (37%)
	• FNPP «Akademik Lomonosov»	194,1 (51%)		70 (51,5%)	31 (32%)
2	Anadyr power hub	128,1	2,09%	68	68
3	Egvekinot power unit	69,9	2,04%	30	30

	CONSUMPTION FORECAST, MLN KWH					AVERAGE ANNUAL GROWTH FOR 2023-2027, %
	2023	2024	2025	2026	2027	
Energy grid of the Chukotka Autonomous Region	629	735	772	848	935	10,22%
• Chaun-Bilibino energy center	426	515	552	627	715	13,66%
• Anadyr power hub	131	148	148	148	148	2,94%
• Egvekinot power unit	72	72	72	72	72	0,68%

CHAUN-BILIBINO POWER UNIT

BILIBINO NPP

“Rosenergoatom Concern” JSC (Rosatom State Corporation)
Commissioning – 1974

Installed electric capacity - 4 × 12 MW

Decommissioning of power units in accordance with the plans of
«Rosenergoatom Concern» JSC

1 power unit - 14.01.2019
2 power unit - 31.12.2025
3 power unit - 31.12.2025
4 power unit - 31.12.2025



CHAUN CHPP

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WIND POWER STATION

Location: Pevek airport area

ABOUT THE PROJECT

Construction of a 100 MW wind power plant:

Number of wind power plants - 24 pcs.

Specifications of the wind turbines:

- Power - 4.2 MW
- Rotor diameter - 126 m
- Tower height - 87 m
- Wind class - IEC IIB

Investment phase - 3 years (2025-2027)

Operational phase (lifetime) - 20 years (2028-2047)

Average wind speed: 7.0 m/s

Installed capacity utilization factor: 35,1%

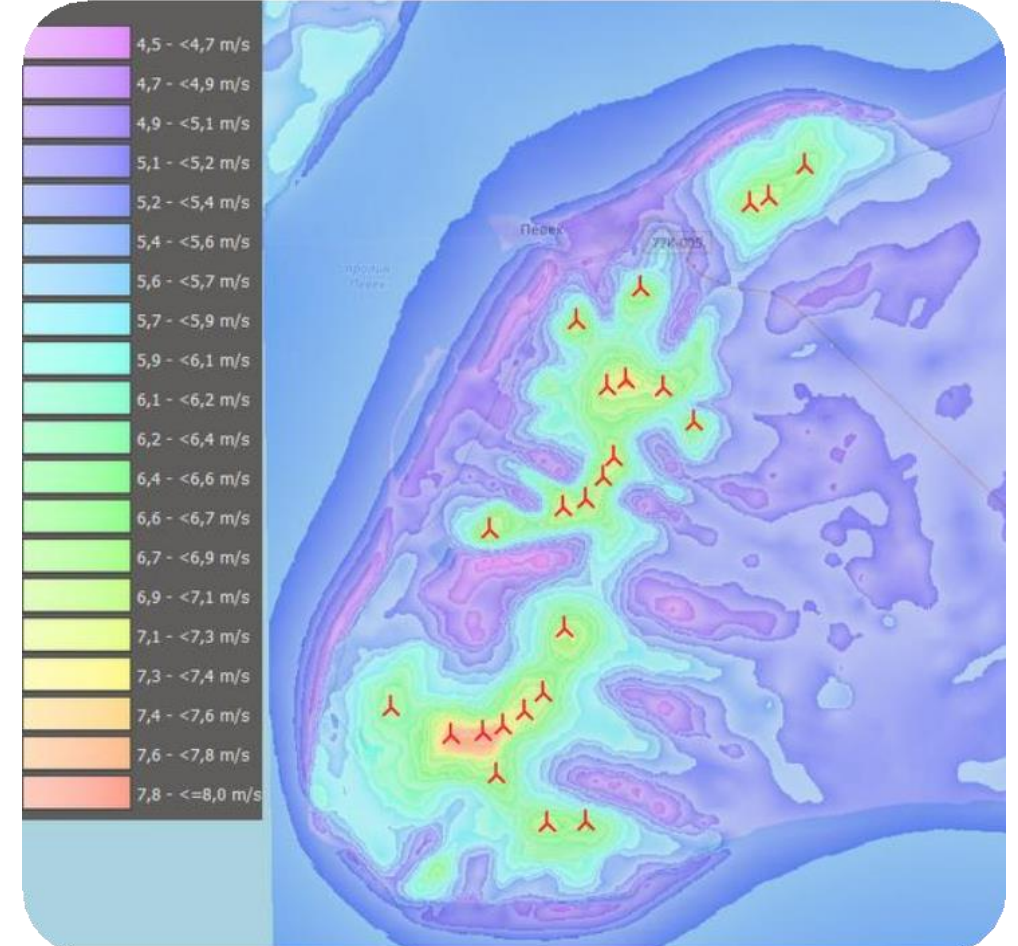
Generation: 309.9 mln kWh/year (including shading losses)

CONTRACT STRUCTURE – «TAKE-OR-PAY» AGREEMENT:

- One party agrees to provide a guaranteed volume of goods, and the other party undertakes to pay for that volume regardless of the cost during the period in question
- BASIC CONDITION - 10 RUB / kWh in the year of WPP commissioning with subsequent indexation during operation

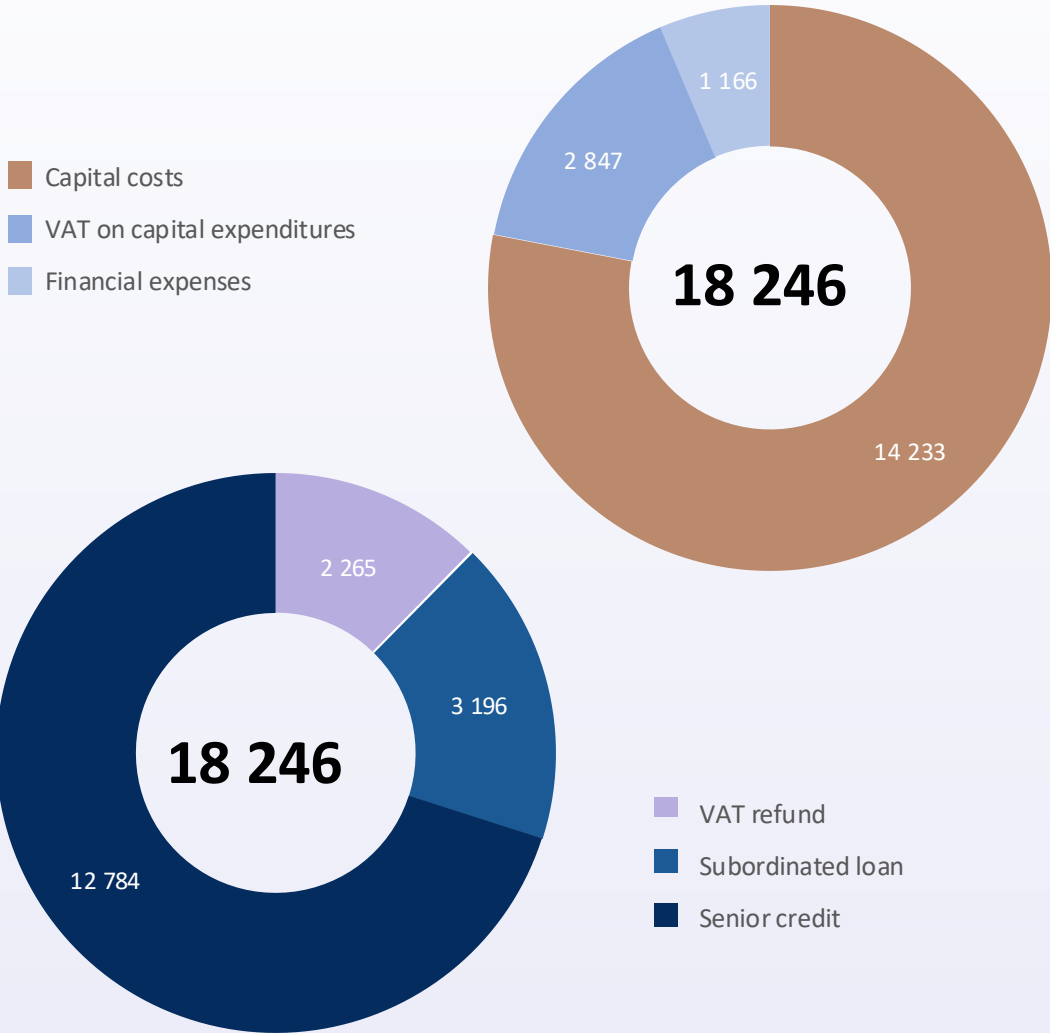


WIND TURBINE ARRANGEMENT OPTION BASED ON WIND MAPS



MAIN RESULTS OF THE PROJECT

SERVICING OF DEBT INVESTMENTS



SENSITIVITY ANALYSIS

Project NPV	3 131	RUB mln.
WACC	13,4	%
Project IRR	16,0	%
Simple payback period	8,6	years
Discounted payback period	14,5	years
Investor's NPV	2 151	RUB mln.
Rate of return	15,0	%
Investor's IRR	22,5	%
Simple payback period	8,4	years
Discounted payback period	14,4	years

MAIN RESULTS OF THE PROJECT

SERVICING OF DEBT INVESTMENTS



* Annual indexation of tariff by CPI is envisaged

Project IRR		CHANGE IN THE TARIFF FOR ELECTRICITY (RUB/KWH IN 2028*)						
Change in the amount of capital investments (mln RUB)	16,0%	-30% (7,30)	-20% (8,35)	-10% (9,39)	0% (10,43)	+10% (11,48)	+20% (12,52)	+30% (13,56)
	+15% (21,0)	9,5%	11,4%	13,1%	14,4%	15,7%	16,9%	18,0%
	+10% (20,1)	10,1%	12,0%	13,6%	14,9%	16,2%	17,4%	18,6%
	+5% (19,2)	10,6%	12,6%	14,1%	15,4%	16,8%	18,0%	19,3%
	0% (18,2)	11,2%	13,1%	14,6%	16,0%	17,4%	18,7%	20,0%
	-5% (17,3)	11,8%	13,7%	15,2%	16,6%	18,1%	19,4%	20,8%
	-10% (16,4)	12,5%	14,2%	15,8%	17,3%	18,8%	20,2%	21,6%
	-15% (15,5)	13,1%	14,9%	16,5%	18,1%	19,6%	21,1%	22,5%



WELCOME TO THE CHUKOTKA AUTONOMOUS REGION

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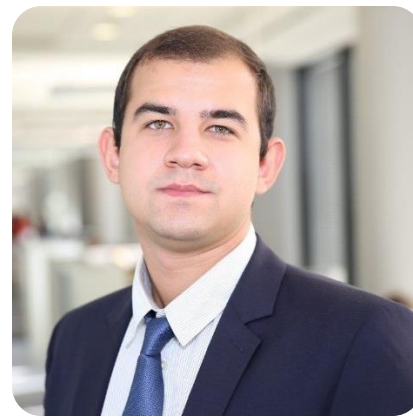
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Investment gateway of the Chukotka
Autonomous Region



TELEGRAM



VKontakte