

80 Million Tons of Freight on the Northern Sea Route in 2024: Cargoes, Shipping and Shipbuilding

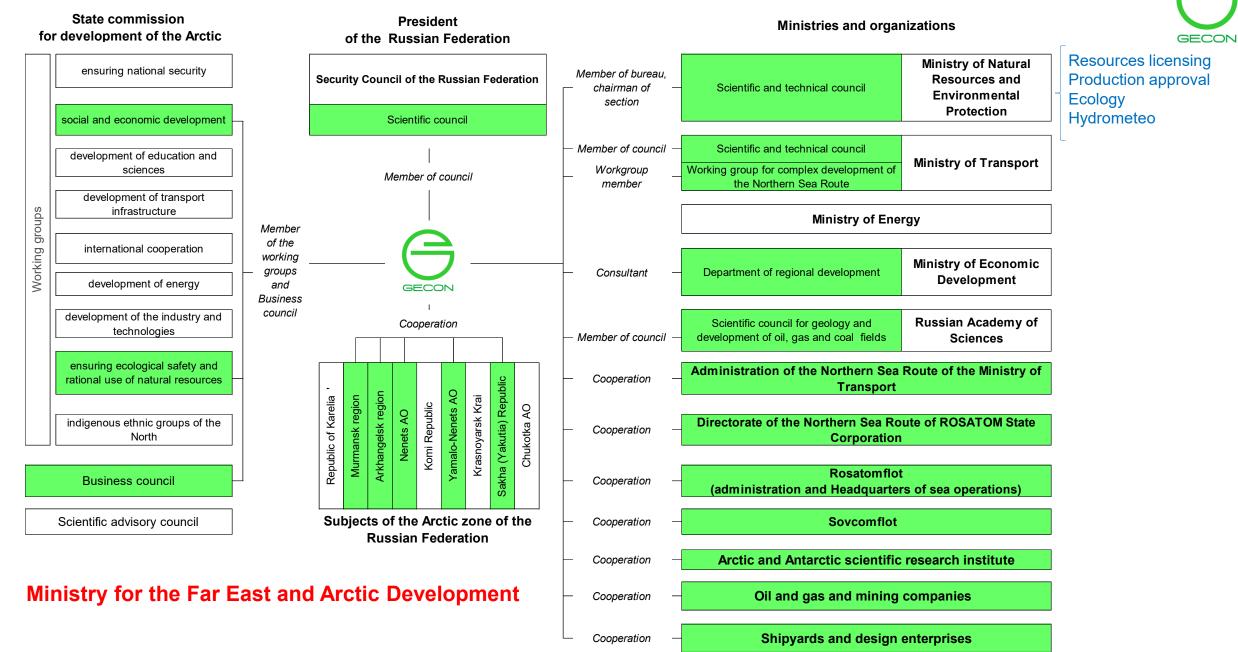
Mikhail Grigoryev

GECON

14th ARCTIC PASSION SEMINAR

February 28th , 2019, Helsinki

RUSSIAN ARCTIC SHIPPING - STAKEHOLDERS AND DECISION MAKERS



RUSSIAN ARCTIC DEVELOPMENT

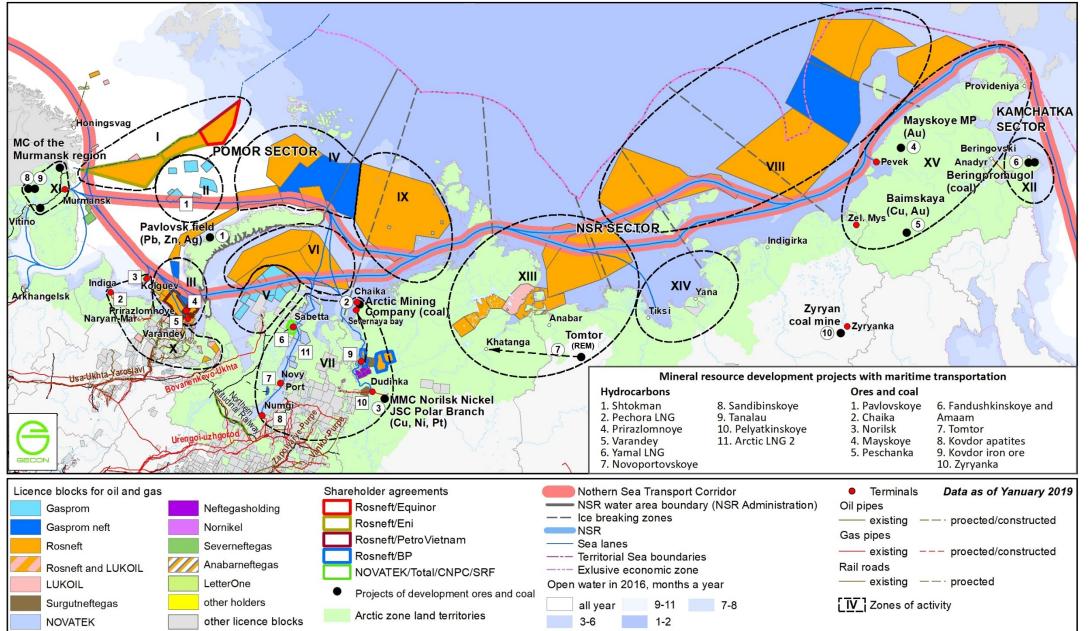


Tasks of NSRA-1936

- final development of the Northern Sea Route from the Barents Sea to the Bering Strait;
- 2. the organization of sea, river and air traffics, a radio communication and research work in the Soviet Arctic;
- 3. development of natural resources of the Far North,
- assistance to economic and cultural raising of indigenous people of the Far North

ARCTIC MINERAL PROJECTS WITH MARITIME TRANSPORTATION (NMTC)





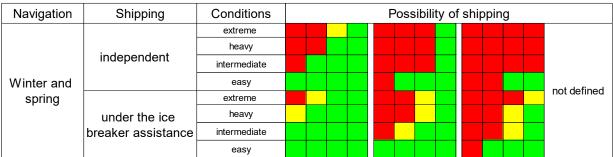
Data sources: Government of the Russian Federation, Ministry of Natural Resources and Environmental Protection, Ministry of Transport, NPD, companies; analysis of GECON

ARCTIC PROJECTS AND CONDITIONS OF SHIPPING

Readiness of transport I infrastructure	Navigation	The highest extent of industrial development of fields				Arrangement of license areas			oviding flot	Ice classes of cargo vessels (Russian Maritime Register of Shipping) تة										uns of (the vessel I of the RF)			
		Developed	In exploration	Logistic schemes	Land	Internal sea waters	Territorial sea	Continental shelf	Icebreaking providing by Atomflot	Barents sea			Kara sea (SW)			E.Siberian sea (NE)				Bering sea	Restrictions of transportations (the under the flag of th		
										Arc 4	Arc 5	Arc 6	Arc 7	Arc 4	Arc 5	Arc 6	Arc 7	Arc 4	Arc 5	Arc 6	Arc 7	not defined	R transpo under
	Seasonal	Peschanoozerskoye		1																			
		Sandibinskoye		2																			RF
		Mayskoye		3																			
Active	Year-round	Varandey		4																			
Active		Prirazlomnoye		5																			
		Novoportovskoye		3	- yan																		RF
		Norilsk		6					contract is														
		Pelyatkinskoye		7					concluded														RF
			Chaika	8																			RF
Under construction	Seasonal		Fandushkinskoye pole and Ammamskoye	9																			
			Yamal LNG	10 11					CIC														RF
Projected	Year-round		Pavlovskoye								?												
			Arctic LNG																				RF
Announced			Tanalau		-																		RF
	Seasonal		Peschanka												special cons			onstruction					
			Tomtor													freight							
Not defined	Year-round		Pechora LNG																				
Not defined			Schtokman					-															





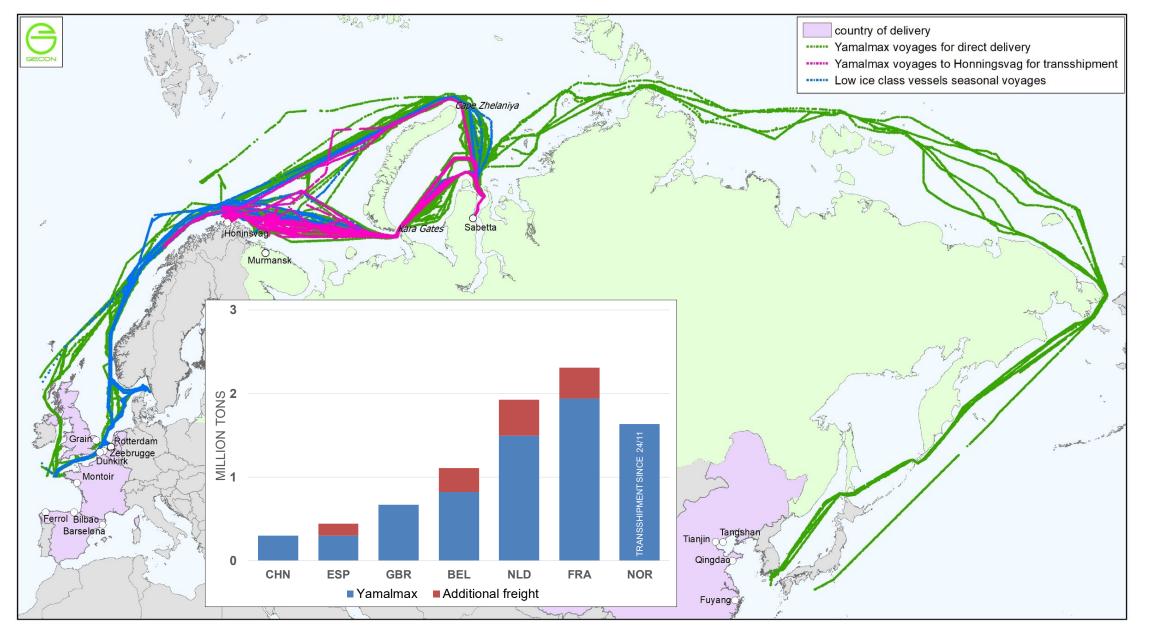


Data sources: Government of the Russian Federation, RMRS, Rosnedra, companies; analysis of GECON

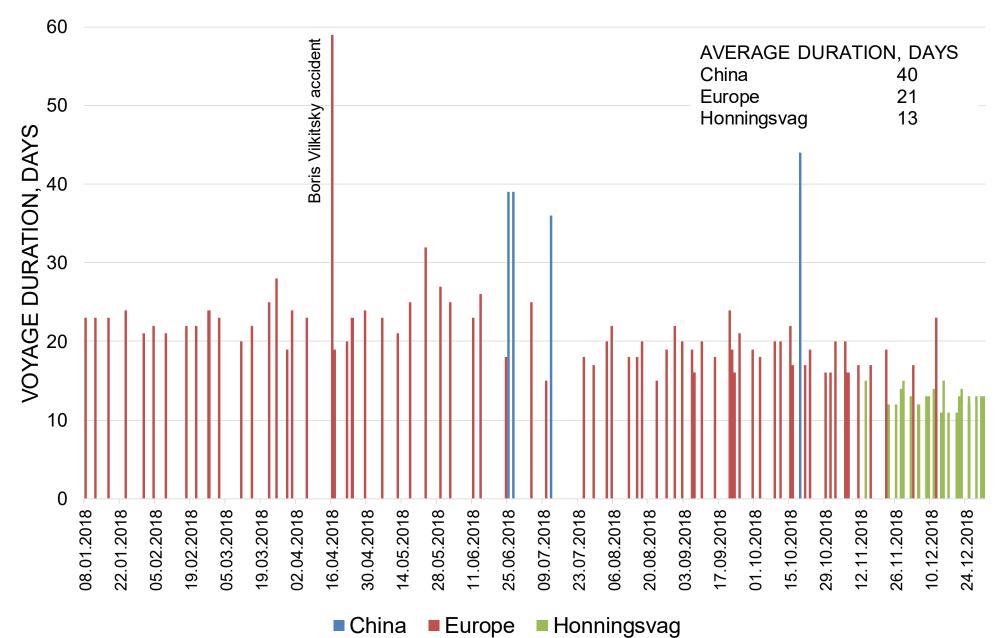


YAMALMAX GAS CARRIERS ROUTES (2018)





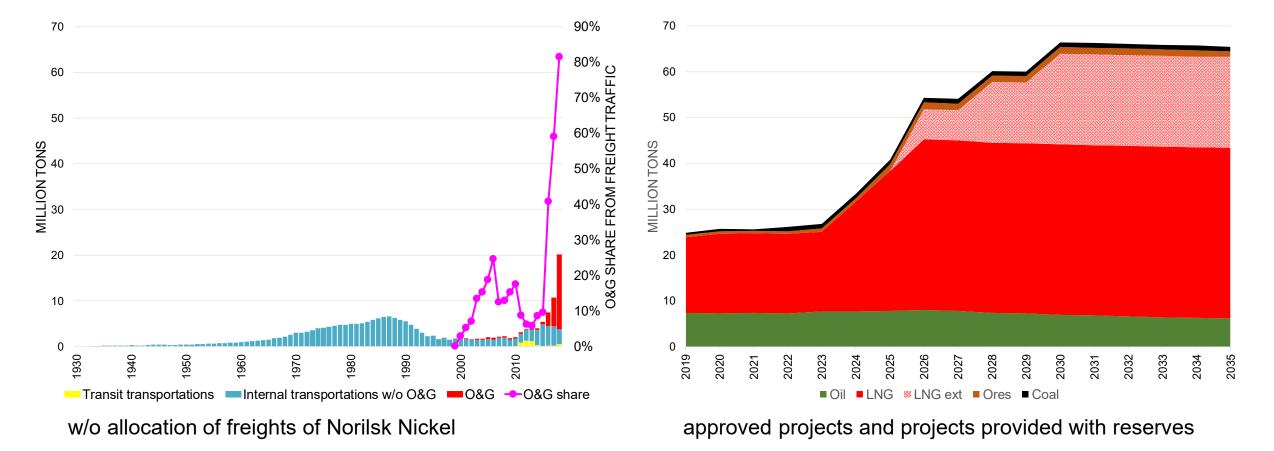
DURATION OF ROUND VOYAGES OF YAMALMAX GAS CARRIERS (2018)



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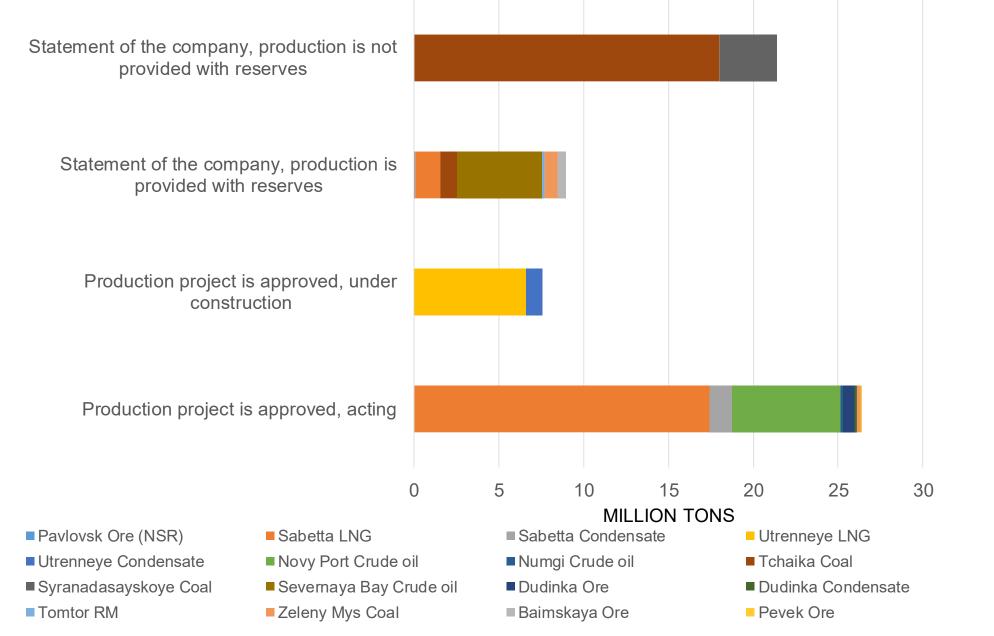
NORTHERN SEA ROUTE SECTOR RETROSPECTIVE AND FORECAST OF TRANSPORTATION OF MINERAL RESOURCES





Uncertainty of volumes of extraction of coals of the Western Taimyr and crude oil of the Payakha field

EXPECTED VOLUMES OF TRANSPORTATIONS IN 2024

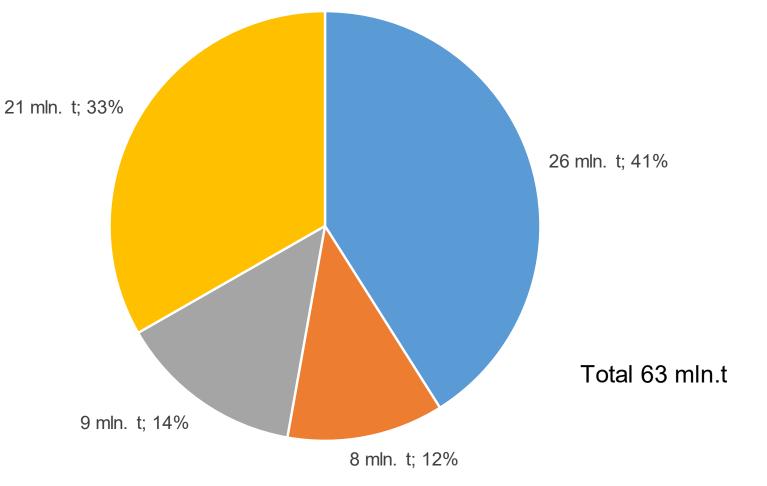


Data sources: Ministry of Natural Resources, Ministry of Transport, companies; analysis of GECON

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SHARES OF PROJECTS IN PROVIDING FREIGHT TRAFFIC IN 2024



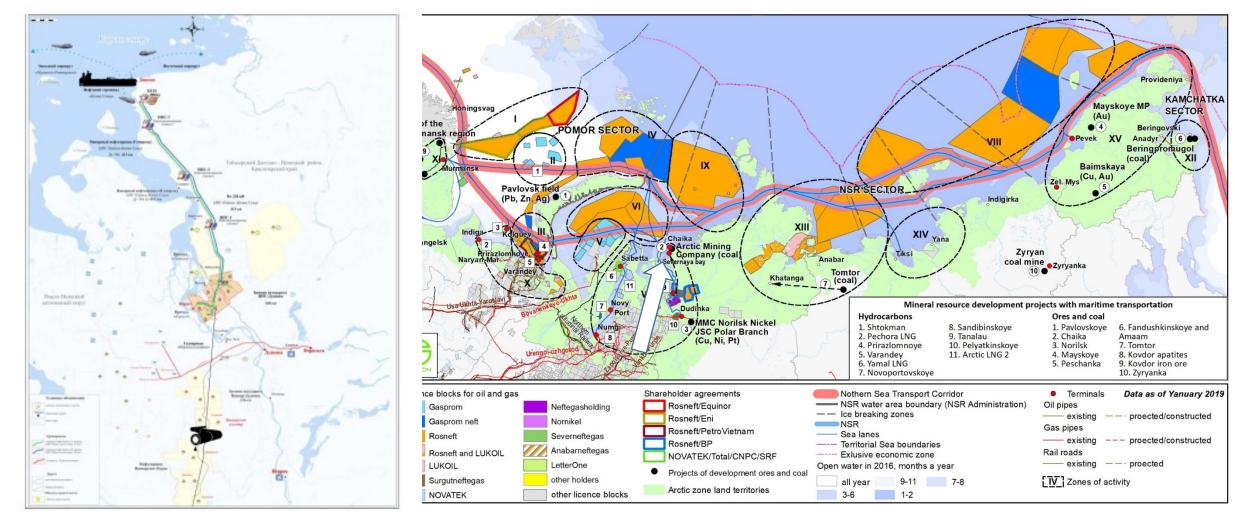


- Production project is approved, acting
- Production project is approved, under construction
- Statement of the company, production is provided with reserves
- Statement of the company, production is not provided with reserves

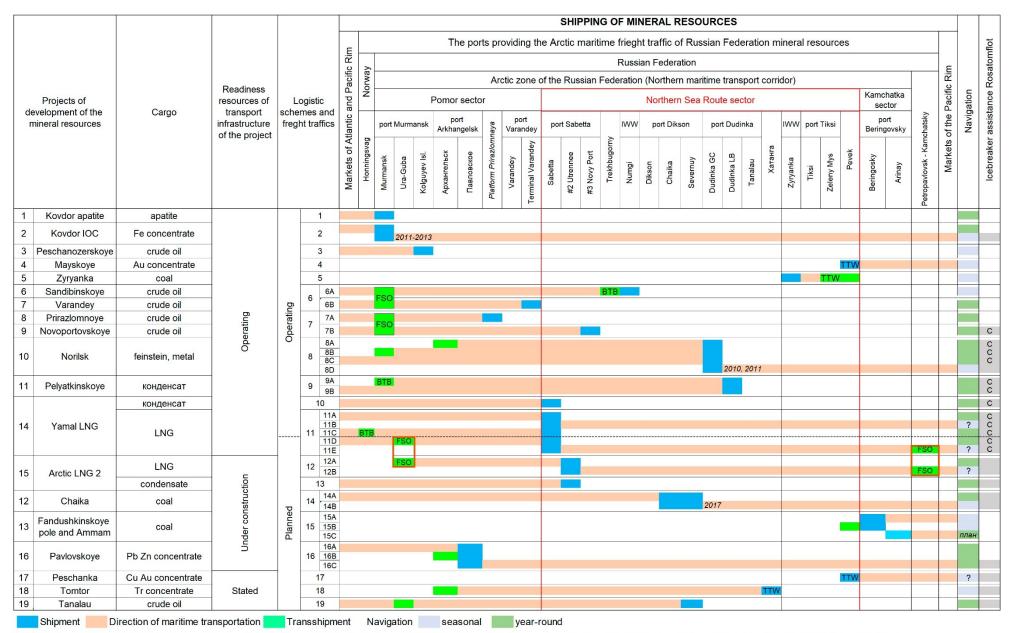
Data sources: Ministry of Natural Resources, Ministry of Transport, companies; analysis of GECON

ROSNEFT: PLUS 25 MILLION TONS OF CRUDE OIL TO THE NORTH (DIKSON PIPELINE)





SHIPPING OF THE MINERAL RESOURCES OF THE ARCTIC ZONE



Abbreviations: IWW- iInternal waterways; FSO - Floating Storage and Offloading; BTB - transfer according to the scheme "board-to-board"; TTW - transfer through a warehouse; C - the contract is signed

Data sources: Ministry of Natural Resources, Ministry of Transport, oil and gas, mining and transport companies; analysis of GECON



SHIPBUILDING: CARGO AND SUPPORT VESSELS

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The status of the project	Title	Freight	Cargo in 2024, Mt	Vessel type	Dwt, Kt	Ice class (RMRS)	Numb.	In operation	In construction	Prospect of construction	Prospect of a freight
				gas carrier	97	Arc 7	15	10	5		+?
Production project is approved, acting	Yamal LNG	LNG	18.9	tanker	51	Arc 7	2		2		
				icebreaker	2	Icebreaker7	1		1		
		Condensate	1.4	tow	0.3	Arc 6	2	2			
				tow	0.1	Arc 4	2	2			
	Novy Port			tanker	41	Arc 7	7	6	1		
		Crude oil	6.4	tanker	20	Arc 4 (5)	3	3			
				icebreaker	5	Icebreaker8	2	2			
	Numgi	Crude oil	0.1								+
	Dudinka	Orea	0.7	icebreaker	1	Icebreaker6	1	1			
		Ores	0.7	container carrier	18	Arc 7	5	5			
		Condensate	0.1	tanker	19	Arc 7	1	1			
	Zeleny Mys	Coal	0.3 (1)								+
	Pevek	Ores	0.1								+
Production project is approved, under construction	Arctic LNG 2		6.6	gas carrier	97	Arc 7	15			15	+?
		LNG		tanker	51	Arc 7	2			2	
				icebreaker	2	Icebreaker7	1			1	
		Condensate	1.0	tow	?	Arc 6	4			4	
				basis of gravitational type			3			3	
	Pavlovskoye (NSR)	Ores	0.1	container carrier	33	Arc 5	1	1			
				tanker	100-150	Arc 7	up to 10			up to 10	
Statement of the company,	Payakhskoye	Crude oil	5,0	tanker	150	-	?				
production is provided with reserves				port fleet	?	?	4			4	
	Tomtor	Ores	0.2								+
	Baimskaya	Ores	0.5	bulk ship	40 - 60	Arc 5/7/8	2-4			2-4	
	Tchayka	Coal	1.0	bulk ship	12-24	Arc 4 (5)	9				9
Statement of the company,	ГСПАУКА	Cuai	19.0	bulk ship	33	B1	2				2
production is not provided	Syradanasayskoye	Coal	3.4	bulk ship	23	A1, A2	4				4
with reserves	Cyradallasaysk0ye	Cuai	5.4	bulk ship	45-50	Arc 6 (7)	6			6	

Data sources: Ministry of Natural Resources, Ministry of Transport, RMRS, companies; analysis of GECON

17.06.2018 Sea channel of Gulf of Ob. Drift of fields of the fast ice. The channel laid by the nuclear Vaygach icebreaker squeezes at once. Transit of Yamalmax across the Sea canal was suspended for 7 days.

Everything is not so simple

Photo: Courtesy of Rosatom

DEVELOPMENT OF THE ARCTIC MARITIME TRANSPORT SYSTEM

- 1. Development of mineral resources is the main incentive motive of development of the Arctic shipping for Russia, as well as for other countries Canada, Denmark, USA, Norway.
- 2. Priority of development of navigation in the sector of the Northern Sea Route is ensuring transportation of mineral resources and ensuring activity of the mining companies.
- 3. Creation of a steady system of transportation of the Arctic mineral resources defines problems of development of icebreaking, navigation and hydrometeorological providing.
- 4. Transit voyages, both internal, and international, will have irregular character and are limited on freight traffic volume (Ministry of transport evaluation for 2024: internal and international transit 1 Mt).
- 5. Creation of a system of transportation of LNG from Kara to the Bering Sea on the sector of the Northern Sea Route within expanded or year-round navigation will allow to create the regular system of escort of transit and coasting vessels as a part of caravans.



Thank you for attention!

mgrigoriev@gecon.ru

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