



GASSERVICECOMPOSITE

COMPANY GROUP



**Standard solutions of GasServiceComposite Group
for gas motor infrastructure**





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«GasServiceComposite» Company Group is a Russian developer and of gas cylinders, gas storage and transportation systems, mobile gas filling stations and equipment for cryo gas filling stations. Equipment of «GasServiceComposite» is operated in 22 regions in Russia from Kaliningrad to Sakhalin.

Activities of «GasServiceComposite» Company Group are aimed at introduction of the latest technologies and formation of developed infrastructure of the gas-engine fuel market on their basis.

Company Group products allow you to provide Gasification of settlements and commercial consumers. A wide range of standard solutions allows implementing various target projects quickly and efficiently, taking into account all customer requirements if there is a possibility of manufacturing an individual equipment.

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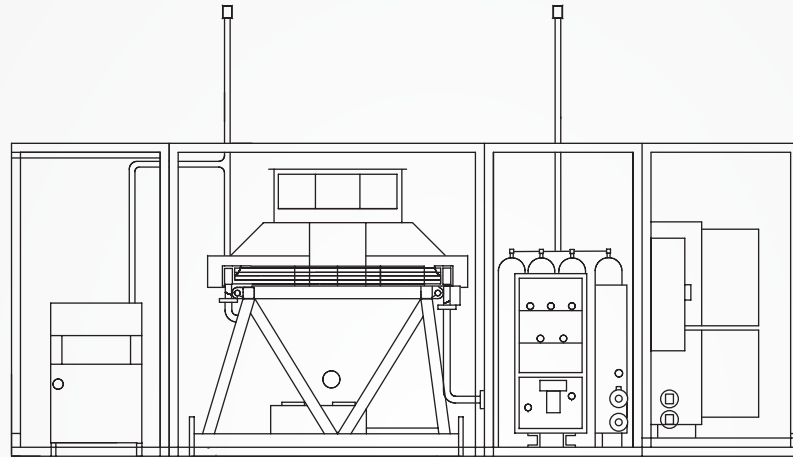
NGCM GSK is designed for natural gas refueling of gas-powered vehicles and mobile gas banks.

The full factory readiness module includes all the necessary equipment and components of the CNG filling station: compressor unit, automatic control systems, gas content control, fire and climate control, accumulator and gas drying units, two single-post gas filling columns, a set of tools and devices for maintenance, a set of spare parts and tools for two years of NGCM operation.

Block-container design of the equipment provides the possibility of its transportation on public roads without additional permits and operation on open areas in climatic zones from - 40 °C to 40 °C. The equipment has a full set of necessary certificates and documentation.

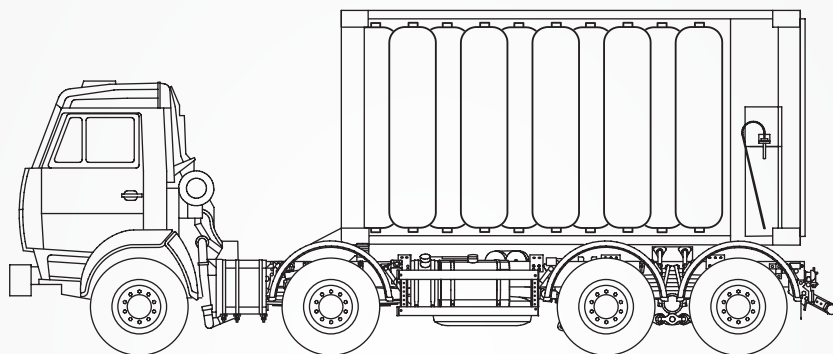
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NATURAL GAS COMPRESSION MODULE (NGCM) GSK-500



Model	NGCM GSK-500
Compressor unit capacity (at Pinl = 0.3-0.6 MPa), nm ³ /h	500
Volume of gas accumulators, Nm ³	150
Compressor unit outlet pressure MPa (kgf / cm ²)	25 (250)
Compressor type	Horizontal-opposed four-stage
Rated drive power, kW	110
Number of capacities, kW	5
Displacement of one tank, l	100
Module dimensions Length/Width/Height, mm	7000 / 2450 / 2780
Weight of the module with equipment without gas, kg, not more	9500

MOBILE GAS REFUELER GSC-3000SH



Model	GSC-3000 SH
Number of cylinders	50
Type of cylinders	CNG-3
Orientation of cylinders	vertical
Cylinder capacity, l	210
Module capacity, l	10500
Methane capacity at 15°C at 250 bars, NM ³	3180
Module dimensions: Length / Width / Height, mm	5500 / 2500 / 2385
Weight of the module without gas, kg	12850
Weight of the module with gas, kg	14655

Mobile Gas Refueler is designed for transportation of compressed natural gas (CNG) to the fuelling space for vehicles using natural gas as a motor fuel.

The system consists of metal composite high-pressure cylinders (250 bars) for compressed natural gas, mounted in the steel container. It is installed on a off-road vehicle chassis.

Mobile Gas Refueler is equipped with a built-in filling gas station. Refueling of vehicles occurs by pressure overbalance, at the same time the discharge coefficient of Mobile Gas Refueler is 65% of the total volume.



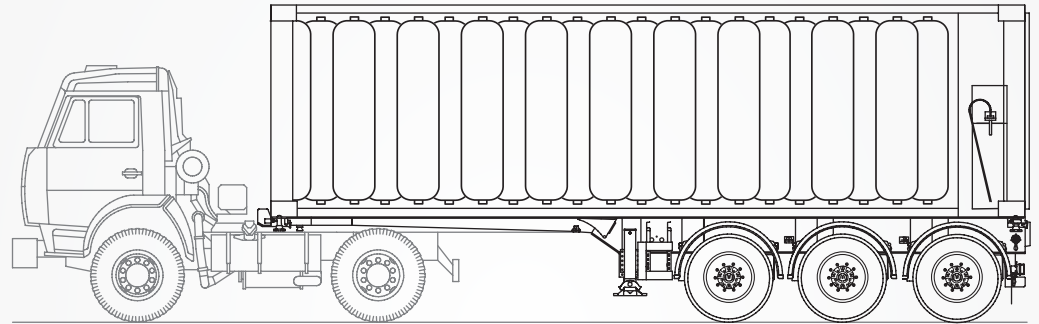
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Mobile Gas Refueler is designed for transportation of compressed natural gas (CNG) to the fuelling space for vehicles using natural gas as a motor fuel.

The system consists of metal composite high-pressure cylinders (250 bars) for compressed natural gas, mounted in the steel container. It is installed on a semitrailer or chassis of a truck.

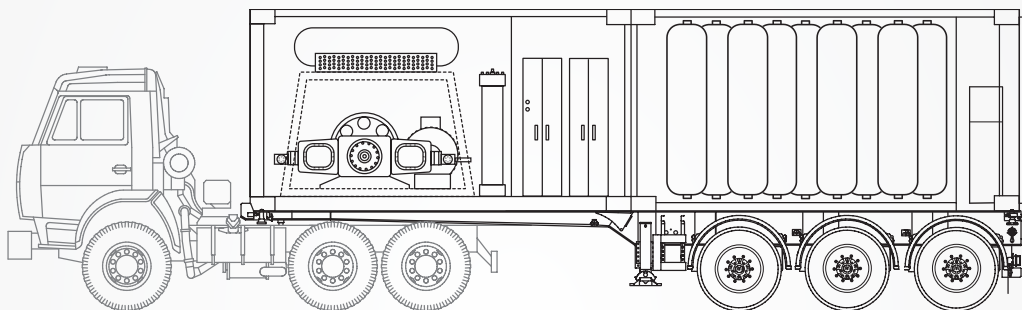
Mobile Gas Refueler is equipped with a built-in filling gas station. Refueling of vehicles occurs by pressure overbalance, at the same time the discharge coefficient of Mobile Gas Refueler is 65% of the total volume.

MOBILE GAS REFUELER GSC-5000 / GSC-7000



Model	GSC-5000	GSC-7000
Number of cylinders	80	110
Type of cylinders	CNG-3	CNG-3
Orientation of cylinders	vertical	vertical
Cylinder capacity, l	210	210
Module capacity, l	16800	23100
Methane capacity at 15°C at 250 bars, NM ³	5090	7000
Module dimensions: Length / Width / Height, mm	7500 / 2500 / 2585	10100 / 2500 / 2585
Weight of the module without gas, kg	17810	24015
Weight of the module with gas, kg	21800	28816

MOBILE CNG STATION



Mobile CNG station is designed to fuel from its own gas pipeline to gas storage, its preparation, transportation and refueling of vehicles using natural gas as motor fuel.

The system consists of a complete set of gas filling equipment, compressor and storage with metal-composite high-pressure cylinders (250 bar) mounted on the semitrailer chassis.

Refueling of cars takes place with the help of the built-in compressor, which allows to achieve a discharge rate of 90% of the total volume.

Model	GSC-2400 K
Number of cylinders	40
Orientation of cylinders	vertical
Compressor capacity (inlet pressure P=0,6 MPa), Sm ³ /h	900
Input pressure range, MPa	0,3 - 0,6
Gas storage capacity, Nm ³	2545
Rated engine power, kW	110
Number of pressure stages, pcs.	4
Module dimensions: Length / Width / Height, mm	10250 / 2500 / 2585
Weight of the module without gas, kg	30000
Weight of the module with gas, kg	33000

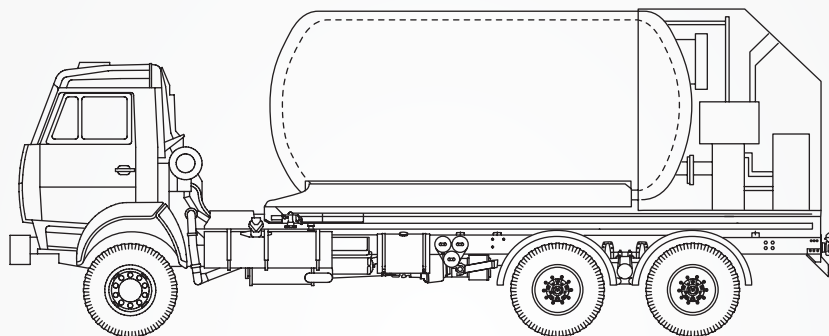


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Cryogenic mobile gas refueler is designed for storing and transporting liquefied natural gas (LNG), as well as fueling vehicles using LNG as motor fuel.

The system consists of a cryogenic reservoir for LNG, mounted on the chassis of the off-road vehicle. It is equipped with a cryogenic pump and a built-in single-position fueling column for LNG. Car refueling can also be carried out at the expense of the pressure difference, which is provided by a retaining evaporator.

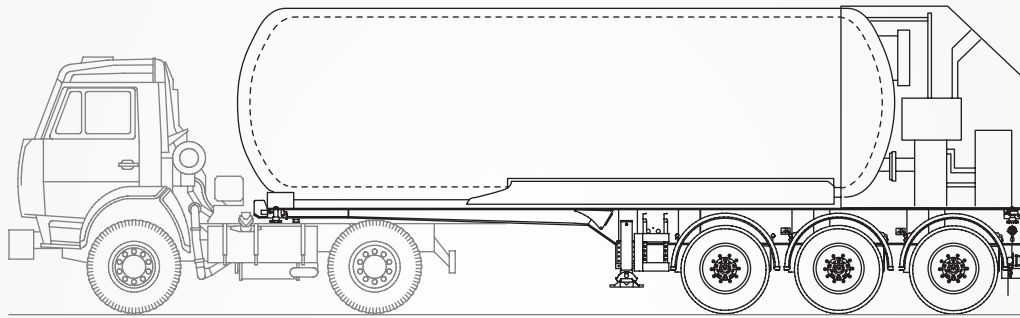
CRYOGENIC MOBILE GAS REFUELER GSC-12 SH / GSC-20 SH



Model	GSC-12 SH	GSC-20 SH
Isolation type	multilayer screen-vacuum	multilayer screen-vacuum
Working pressure, MPa	0,4 – 1,4	0,4 – 1,4
Tank volume, m ³	12	20
Weight of transported LNG (at a density of 420 kg/m ³), kg	4600	7500
Pump and gas filling column capacity, l/min	150	150
Self-pressurizing evaporator capacity, Nm ³ /h, not less	100	100
Power consumption, kW, no more	20	20
Operating temperature, °C	from –40 to +50	from –40 to +50
Product weight, kg, not more	22 000	27500
Масса изделия, кг, не более	22 000	27500

CRYOGENIC MOBILE GAS REFUELER

GSC-39 / GSC-47



Cryogenic mobile gas refueler is designed for storing and transporting liquefied natural gas (LNG), as well as fueling them with vehicles using LNG as motor fuel.

The system consists of a cryogenic LNG tank mounted on a semi-trailer. It is equipped with a cryogenic pump and a built-in single-position fueling column for LNG. Car refueling can also be carried out at the expense of the pressure difference, which is provided by a retaining evaporator.

Модель	GSK-39	GSK-47
Isolation type	multilayer screen-vacuum	multilayer screen-vacuum
Working pressure, MPa	0,4 – 1,2	0,4 – 1,0
Tank volume, m ³	39	47
Weight of transported LNG (at a density of 420 kg/m ³), kg	15000	18000
Pump and gas filling column capacity, l/min	150	150
Self-pressurizing evaporator capacity, Nm ³ /h, not less	200	200
Power consumption, kW, no more	20	20
Operating temperature, °C	from –40 to +50	from –40 to +50
Product weight, kg, not more	33800	36000
Dimensions: Length / Width / Height, mm	12 280/2520/3860	12950/2520/3960



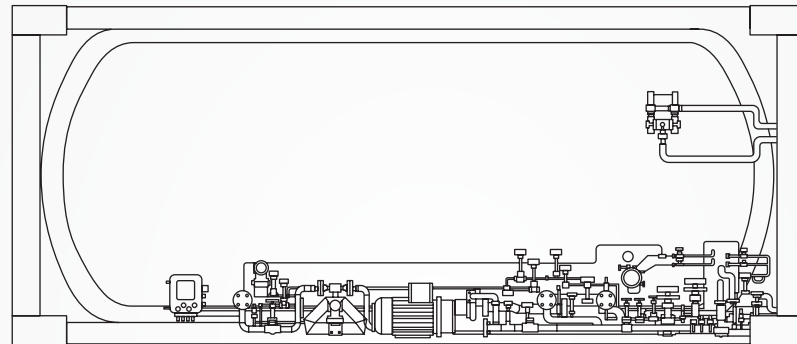
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Is designed to intake of liquefied natural gas (LNG) at the site of production, its storing, transportation on public roads and the implementation of its download using a cryogenic pump in a stationary vessel storage and/or refueling of LNG in cryogenic tanks of motor vehicles with providing commercial accounting.

Structurally, MGRU is a block-module in the standard of 20 or 40-foot intermodal ISO container and consists of intermodal perimeter frame with nodes for fastening and moving, cryogenic vessel, low-pressure cryogenic pump, booster evaporator, system of delivery and commercial metering of LNG and Automatic Process Control System.

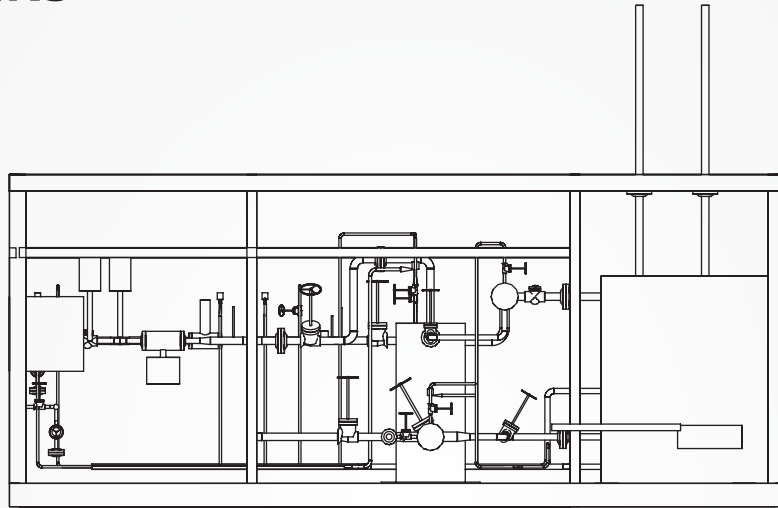
Refueling of vehicles occurs by pressure overbalance, which provides a booster evaporator.

MOBILE GAS REFUELING UNIT (MGRU) LNG GSK-20K / GSK-40K



Model	MGRU LNG GSK-20K	MGRU LNG GSK-40K
Working environment	Liquefied natural gas according to GOST R 56021-2014, mark «B»	
Isolation type	multilayer screen-vacuum	
Weight of transported LNG (at a density of 420 kg/m ³), kg, not less	7180	16100
Nominal tank volume, l, not less	18000	40500
Working pressure, MPa	0,4-1,2	0,4 - 1,2
Pump and gas filling column capacity, l/min	150	150
Self-pressurizing evaporator capacity, Nm ³ /h, not less	100	100
Power consumption, kW, no more	20	20
Operating temperature, °C	from -40 to +50	from -40 to +50
Dimensions: Length / Width / Height, mm	6058/2438/2591	12192/2438/2591

UNLOADING MODULE OF CRYOGENIC TANKS



It is designed for intake of liquefied natural gas from cryogenic tanks for the purpose of refueling vehicles using LNG or CNG as motor fuel, depending on the modification of the Unloading module of cryogenic tanks.

The module consists of a low or high-pressure cryogenic pump, a regasifier, an LNG or CNG dispensing and commercial metering system and an Automatic Process Control System mounted in a steel container that can be mounted on semi-trailer chassis.

Model	Unloading module of cryogenic tanks LNG	Unloading module of cryogenic tanks LNG/ CNG
Pump type	Cryogenic submersible low pressure	Cryogenic plunger high pressure
Working environment	Liquefied natural gas according to GOST R 56021-2014, mark «B»	
The temperature of LNG at the pump inlet, °C	- 126 - 162	- 126 - 162
Pump and gas filling column capacity, l/min (Nm ³ /h), not more	150	600
Maximum electric power consumption, kW, not more	20	20
Productivity of the regasification, Nm ³ /h, not less	100	600
Operating temperature, °C	from -40 to +50	from -40 to +50
Dimensions: Length / Width / Height, mm	6058/2438/2591	6058/2438/2591



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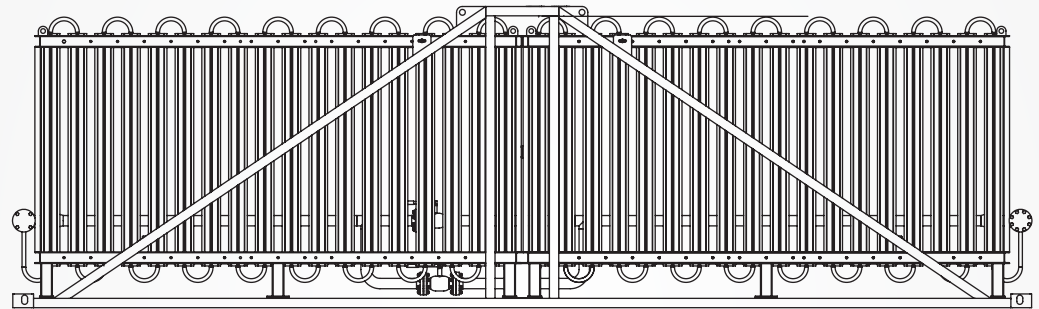
It is intended for LNG regasification in order to provide Autonomous gasification of industrial consumers and residential areas, including for temporary gas supply to consumers during planned and emergency works on the main gas pipeline, as well as for fuel supply of generator sets of drilling rigs.

The system consists of atmospheric evaporators, a natural gas heater, a pressure regulator, a commercial metering unit and Automatic Process Control System mounted in a steel container that can be mounted on a semi-trailer.

The technological unit provides for the connection of two CRYO MGR with the issuance of LNG for regasification from one of them and the ability to switch from one to another without stopping the regasification process.

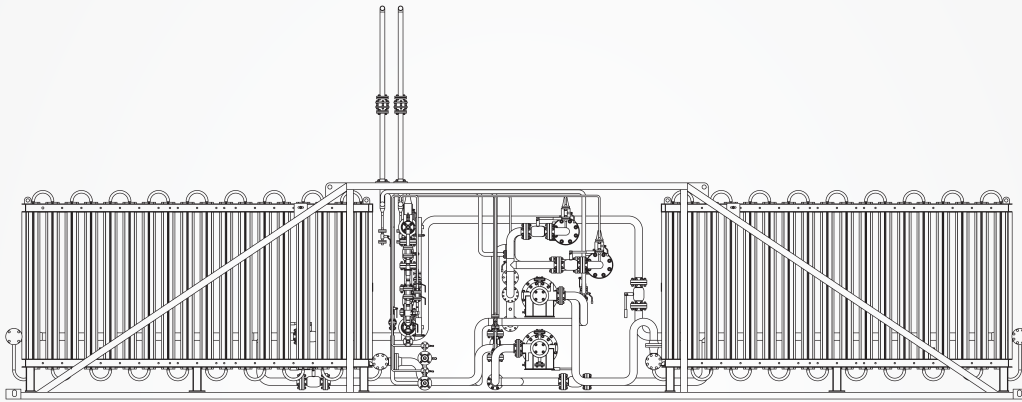
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LNG MOBILE REGASIFICATION UNIT



Model	LNG mobile regasification unit 20	LNG mobile regasification unit 40
Working environment	Liquefied natural gas according to GOST R 56021-2014, mark «B»	
Productivity, Nm ³ /hour, not less	1250	2500
Working pressure range, MPa	0,2 ... 0,8	0,2 ... 0,8
LNG temperature range at inlet, °C	- 126 - 162	- 126 - 162
Energy consumption, kW, not more	25	50
Minimum gas temperature at output, °C	- 10	- 10
Gas pressures range at output, MPa	0,3 ... 0,8	0,3 ... 0,8
Operating temperature, °C	from -40 to +50	from -40 to +50
Dimensions: Length / Width / Height, mm	6058/2438/2591	12192/2438/2591

MOBILE REGASIFICATION UNIT FOR THE REGASIFICATION OF LNG AND REDUCTION OF CNG



Model	Mobile regasification unit LNG and CNG 20	Mobile regasification unit LNG and CNG 40
Productivity, Nm ³ /hour, not less	1250	2500
Working pressure range, MPa	0,2 ... 24,5	0,2 ... 24,5
LNG temperature range at inlet, °C	- 126 - 162	- 126 - 162
Energy consumption, kW, not more	30	60
Minimum gas temperature at output, °C	- 10	- 10
Gas pressures range at output, MPa	0,3 ... 0,8	0,3 ... 0,8
Operating temperature, °C	from -40 to +50	from -40 to +50
Dimensions: Length / Width / Height, mm	6058/2438/2591	12192/2438/2591

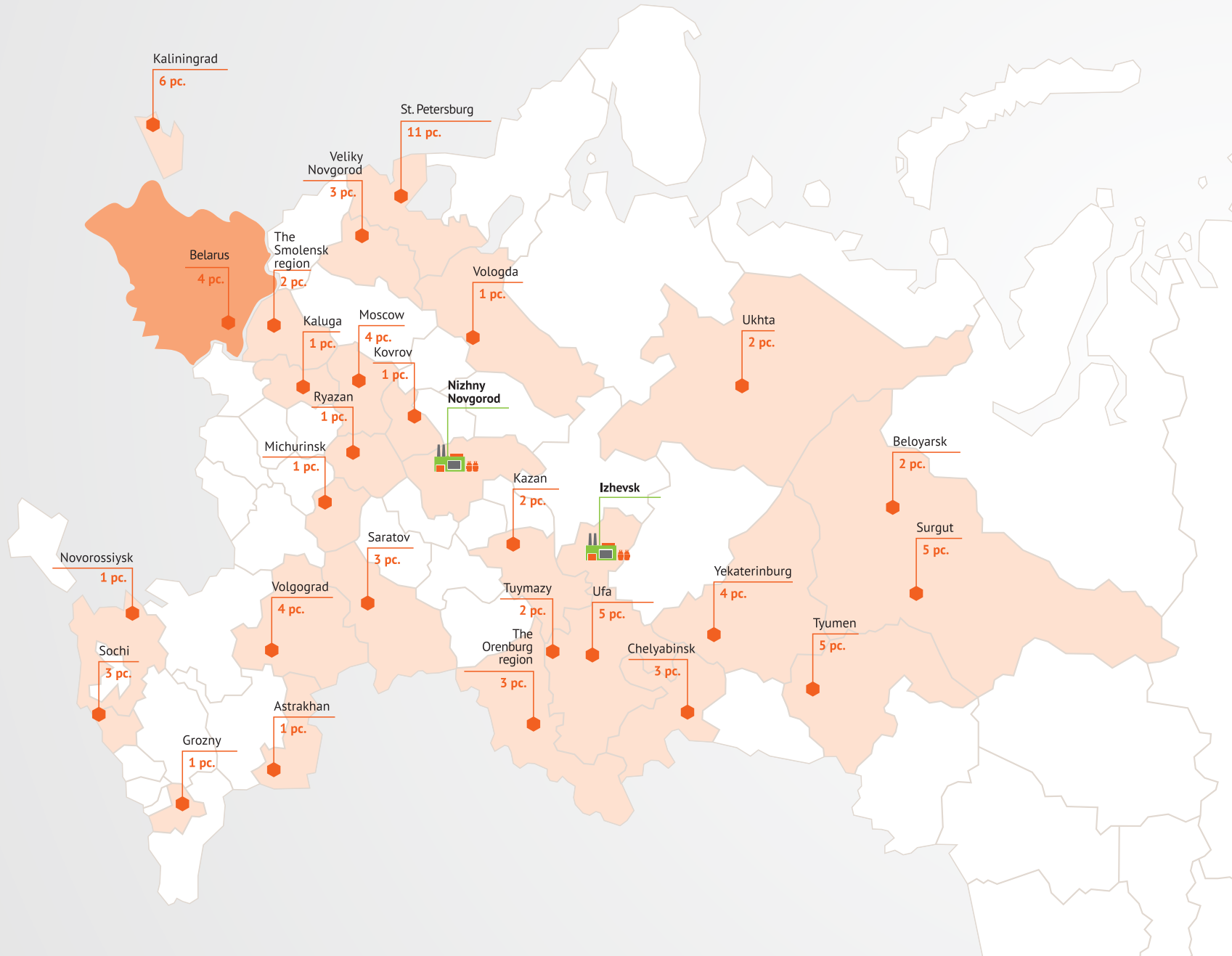


It is intended for LNG regasification and CNG reduction in order to provide Autonomous gasification of industrial consumers and residential areas, including for temporary gas supply to consumers during scheduled and emergency works on the main gas pipeline, as well as for fuel supply to generator sets of drilling rigs.

The system consists of atmospheric evaporators, a CNG reduction unit, a natural gas heater, a pressure regulator and a commercial metering unit and an Automatic Process Control System mounted in a steel container that can be mounted on a semi-trailer.

The technological unit provides for the connection of two CRYO MGR or MGR with the issuance of LNG/CNG for regasification/reduction from one of them and the ability to switch from one to another without stopping the regasification/reduction process.

GEOGRAPHY OF DELIVERIES





Петропавловск-Камчатский

1 pc.

Южно-Сахалинск

1 pc.



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