

At present the Group's ships are equipped with wastewater treatment systems that combine me-chanical, chemical, physical-chemical (including electrolysis) and biological methods. All wastewater treatment plants on board ships have the approval of classification societies confirm-ing compliance with the requirements of Annex IV of the MARPOL 73/78 Convention. The quality of discharged water is confirmed by a wastewater plant certificate (Type Approval Certif-icate).

Management of garbage produced on ships is also organised in strict compliance with Annex V of the MARPOL Convention 73/78, which regulates prevention of pollution by garbage from ships.



Energy consumption and efficiency

Different types of ship fuel are the main types of energy resources consumed during operations of the Group.

Dynamics of fuel consumption in 2018-2020, (tonnes)

Type of fuel		2020		2019		2018
Fuel oil	800,023	65%	958,550	70%	1,025,791	72%
Diesel fuel	234,583	19%	203,754	15%	231,860	16%
Gas engine fuel	190,204	16%	200,475	15%	166,741	12%
Total	1,224,811	100%	1,362,779	100%	1,424,393	100%

Sovcomflot Group is actively engaged in work to implement a state programme for introducing gas engine fuel in the transport sector. In 2020, the share of gas engine fuel amounted to 16% of the total ship fuel consumption against 15% a year earlier. The increase in this indicator is due to an increase in the intensity of liquefied gas transportation and the addition of new-generation LNG-fuelled vessels to the Group's fleet. The SCF fleet includes five LNG tankers equipped with LNG-powered internal combustion engines and four LNG tankers that also use gas fuel for the ship power plant (steam turbine). In addition, six dual-fuel Aframax tankers using liquefied natural gas as the primary fuel were brought into service in 2018-2019. In 2020, two LNG carri-ers equipped with two-stroke internal combustion

engines running on gas fuel were accepted for operation.

The consumption of energy resources such as heat, electricity, motor gasoline is associated with the operation of the Group's onshore units. Their consumption volume is insignificant compared to consumption volumes of different types of ship fuel. The Group does not consume any types of energy resources other than those listed above.

16% the share of gas engine fuel in the total amount of ship fuel consumed (vs. 15% in 2019)