



RUSSIAN  
ENERGY  
AGENCY  
BY THE MINISTRY OF ENERGY  
OF THE RUSSIAN FEDERATION



## Workshop on Decarbonizing Transport with Natural Gas

8 October 2021

Hybrid (St. Petersburg and online)

### Background

The United Nations Economic Commission for Europe (UNECE) is implementing the project [Improving capacities of the UNECE member States to decarbonize the transport sector by increasing the use of natural gas as a motor fuel](#), funded by the Russian Federation. The project covers Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Bulgaria, Kazakhstan, Kyrgyzstan, Moldova, North Macedonia, Romania, Serbia, Tajikistan, Turkmenistan and Uzbekistan.

This project is based on the premise that natural gas - with its environmental, economic, availability and logistic advantages - is a serious alternative to petrol and diesel because it is the only primary fuel that is technically and economically viable in any mode of transportation: on-road vehicles, ships, locomotives. Switching to compressed (CNG) or liquefied natural gas (LNG) away from petrol and diesel is an effective way to reduce pollution from road transport. CNG and LNG may represent an ideal bridge to more sustainable and decarbonised mobility of the future. The project explores how by switching to compressed or liquefied natural gas the member States could (i) decarbonize their transport sectors and get a step closer to achieving carbon neutrality, (ii) reap economic benefits by increasing energy efficiency of transport, (iii) reduce pollution from road transport and improve urban air quality and health.

For these purposes, UNECE prepared the [analytical report](#) that focuses on the natural gas vehicles (NGV) as an effective alternative for the transport transition. It describes the state-of-the-art of the NGV markets and its perspectives in the project countries.

The report includes:

- Assessment of the state of development of CNG and LNG refuelling and storage infrastructure in the project beneficiary countries
- Life cycle analysis of competing fuelling options (diesel, natural gas, electricity, hydrogen) in the project beneficiary countries
- Comparative analysis of safety requirements for refuelling stations as one of the most serious barriers to market development
- Case studies with effective regulatory, legal, economic, technical, and public perception promotional activities to increasing the share on CNG/LNG vehicles in the light- and heavy-duty road fleets
- Public opinion research on introducing natural gas as a motor fuel
- Collection of case studies on popularization of using natural gas for vehicles, such as advertising, video, films
- Recommendations on removing regulatory, legal, economic, technical and public perception barriers to the use of gas in transport.

The report indicates that project beneficiary countries are at different stages of economic development, have a different transport market shape, and energy and transport policies. The NGV markets in the project beneficiary countries can be divided into three groups: (i) initial stage of market development; (ii) emerging markets; as well as (iii) mature markets. The initial stage of development indicates that the number of CNG stations is less than ten, and the dynamics of the NGV fleet is quite low. Emerging market implies a greater number of stations, varying from ten to one hundred. Mature NGV market is characterized by a high level of saturation with filling stations and low potential for further growth. Deployment of natural gas in the energy and fuel sectors differs considerably too. The main indicator for NGV market is the number of filling stations and vehicles using natural gas.

### Agenda

UNECE with the support of the [Russian Energy Agency of the Ministry of Energy of the Russian Federation](#), PJSC Gazprom and the [National Gas Vehicle Association](#), is organizing a Workshop on Decarbonization Transport with Natural Gas. The workshop will be held in **St. Petersburg, Russian Federation on 8 October 2021** in the framework of the [St. Petersburg International Gas Forum](#). Working languages of the workshop are English and Russian, with simultaneous interpretation.

The workshop will discuss the findings of the UNECE analytical report, its key recommendations and country specific guidelines. It will focus on the state of affairs in the development of the market for CNG and LNG, the prospects for the development of the NGV market in the context of decarbonization of the transport sector to reduce the carbon footprint of transport services. It will consider the experience of other countries in promoting the use of CNG and LNG and their applicability in the countries participating in the project.

<b>Welcome Remarks</b>	
10:00-10:20	<ul style="list-style-type: none"> <li>• Mr. Francisco de la Flor Garcia, Chair, UNECE Group of Experts on Gas</li> <li>• Mr. Ivan Ivanov, Deputy Director General, Russian Energy Agency of the Russian Ministry of Energy</li> <li>• Mr. Evgeniy Znatnov, Head of Directorate, Gasprom</li> </ul>
<b>UN activities on decarbonizing transport with natural gas</b>	
10:20-10:45	<ul style="list-style-type: none"> <li>• Mr. Branko Milicevic, Sustainable Energy Division, UNECE</li> <li>• Ms. Nadejda Khamrakulova, Sustainable Energy Division, UNECE</li> </ul>
<b>Use of natural gas in transport in the world</b>	
10:45-11:40	<p><b>NGV market development in the UNECE project countries</b></p> <ul style="list-style-type: none"> <li>• Mr. Vasiliy Zinin, Executive Director, Natural Gas Vehicles Association, Russia</li> </ul> <p><b>Perspectives of international cooperation in the NGV market</b></p> <ul style="list-style-type: none"> <li>• Mrs. Mariarosa Baroni, President, NGV Italy</li> </ul> <p><b>Car life cycle analysis. Carbon Footprint - Comparison of Gas, Petrol, Diesel and Electric Vehicles</b></p> <ul style="list-style-type: none"> <li>• Mr. Flavio Merigo, Technical Director, World Gas Mobility Council</li> </ul> <p><b>Experience in the conversion of heavy diesel engines to alternative fuels</b></p> <ul style="list-style-type: none"> <li>• Mr. Dmitriy Tisnoy, Head of Heavy Engines Committee, NGV Global Group</li> </ul> <p><b>Q&amp;A</b></p>
11:40-12:10	<b>Coffee-break</b>
12:10-13:00	<p><b>Russian complex approach for NGV market development</b></p> <ul style="list-style-type: none"> <li>• Mr. Mikhail Lebedev, Head of PR, Gazprom NGV</li> </ul>

	<p><b>Case study: Expanding the use of natural gas as a motor fuel in the Sakhalin Region</b></p> <ul style="list-style-type: none"> <li>• Mr. Mikhail Guzenko, Minister of Energy, Sakhalin region</li> </ul> <p><b>Case study: Pilot project to develop the NGV market in Tatarstan Region</b></p> <ul style="list-style-type: none"> <li>• Mr. Eldar Adeev, Prime Minister Assistant, Republic of Tatarstan</li> </ul> <p><b>Q&amp;A</b></p>
<b>Perspectives of NGV market development in UNECE countries</b>	
13:00-13:50	<p><b>Kazakhstan NGV market perspectives</b></p> <ul style="list-style-type: none"> <li>• Mr. Talgat Arystanbaev, Chairman, NGVA Kazakhstan</li> </ul> <p><b>Belarussian NGV market dynamics</b></p> <ul style="list-style-type: none"> <li>• Mr. Daniil Marchenkov, Deputy General Director, Gazprom transgaz Belarus</li> </ul> <p><b>Q&amp;A</b></p>
<b>Roundtable discussion: Regulatory, legal, economic, technical and public perception barriers to the use of gas in transport</b>	
13:50-14:20	<p>Moderator: Mr. Branko Milicevic, Sustainable Energy Division, UNECE</p> <p>Open discussion with all participants</p>
<b>Closing remarks</b>	
14:20-14:30	<ul style="list-style-type: none"> <li>• Ms Olga Yudina, Adviser to the Director General, Russian Energy Agency of the Russian Ministry of Energy</li> <li>• Mr. Branko Milicevic, Sustainable Energy Division, UNECE</li> </ul>