



The Ministry of Ecology, Geology and
Natural Resources of the Republic of
Kazakhstan



UNECE



ZHASYL DAMU
joint-stock company



KazTransGas
ТОО «ҚазТрансГаз Өнімдері»



ОЮЛ
«Газомоторная ассоциация Казахстана»



Workshop "Supporting for Transport Decarbonization in Kazakhstan"

To fulfil Kazakhstan's commitments to reduce greenhouse gas emissions by 2030 and achieve carbon neutrality by 2060 under the Paris Agreement

Dates: November 24-25, 2021

Venue: Almaty, Holiday Inn hotel, Timiryazev street, 2D

Background Information

One of the main areas of decarbonization is the transition from burning coal and oil products to natural gas, including transport sector. While mentioning natural gas, we cannot exclude biogas, coalbed methane and landfill methane, which are identical in chemical composition and properties to natural gas. The workshop will focus on the discussion of transition to compressed and liquefied natural gas (CNG and LNG), which practically meets the requirements of motor fuel of ecological class Euro-5 and Euro-6.

During the independence years, the car fleet in Kazakhstan has grown from 1.2 to 4.5 million units, mainly due to gasoline and diesel. Accordingly, greenhouse gas (GHG) emissions from vehicles have increased by more than 3 times (by 4 million tons of CO₂-eq.). A gradual transfer of a significant share of the existing vehicle fleet to natural gas and an increase in the new gas vehicle fleet will not only reduce GHG emissions, but also improve air quality in local settlements. This will have a positive effect on the health of the population, labor productivity of the working population, and, accordingly, will lead to a decrease in the costs of households, employers, and the state for health care. Along with a positive social effect, transport gasification will reduce costs (including from the state budget) for maintenance and repair of vehicles, since gas vehicles need less maintenance and repair than gasoline and diesel ones. The negative impact of the transport sector on flora and fauna will also be significantly mitigated. Thus, gasification of transport will also contribute to the recovery of the post-COVID economy and the achievement of the UN Sustainable Development Goals.

The massive transfer of vehicles to CNG and LNG requires the creation of an accessible high-tech safe infrastructure and the corresponding necessary regulatory and legal support in the country, synchronization of the development of not only gas filling infrastructure and maintenance of gas equipment (LPG), but also the expansion of the vehicle fleet that uses gas as a motor fuel. Accordingly, it is necessary to develop the gas segment of automotive engineering, as well as the services associated with the re-equipment and installation of gas equipment of gasoline and diesel vehicles in operation. And since the corresponding technological equipment is not produced in Kazakhstan, a stimulating import policy is needed, which will accelerate the transport decarbonization.

The discussion will focus on:

- the current sectoral policies and challenging issues related to the workshop topic;
- regulatory support;
- the state and prospects for the development of the gas engine fuel market in Kazakhstan in the context of reducing the carbon footprint of transport services in Kazakhstan;
- necessary measures of state support;
- synchronization of action plans of all stakeholders.

The workshop will present the outcomes of studying the best practices of other countries in the UNECE region, summarized in the report “Increasing the capacity of UNECE member states to decarbonize the transport sector by increasing the use of natural gas as a vehicle fuel”.

Preliminary Workshop Programme

Time	Topic of the speech, event	Speaker
The first day – 24 November 2021		
9:00-9:30	Registration of offline participants, connecting online participants to the event	Organizers
Opening of the Workshop		
9:35-9:40	Welcoming remarks from the Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan and introduction of the workshop goals	Aljas Agabekov – Director of Climate Policy and Green Technologies Department
9:35-9:40	Welcoming remarks from JSC “KazTransGas” and expectations from the seminar	Alik Ashirov – General director, Chairman of Board of “KazTransGas Onimderi”
9:40-9:45	Welcoming remarks from the UNECE and Kazakhstan's support in decarbonizing transport	Branko Milicevic – Secretary of the Group of Experts on Gas, UNECE
9:45-9:50	Welcoming remarks from the Ministry of Industry and Infrastructure Development of the Republic of Kazakhstan and expectations from the workshop	Elmira Rakhmalinova – Head of Department of Public Communication and Document Circulation of the Transport Committee of the MIIR RK
Session I "Transport Decarbonization: transition to natural gas"		
09:55-10:05	The role of natural gas in transport in light of the UN 2030 Agenda	Branko Milicevic - Secretary of the UNECE Group of Experts on Gas

10:05-10:15	Improving capacities of the UNECE member States to decarbonize the transport sector by increasing the use of natural gas	Nadejda Khamrakulova - Project Officer, Sustainable Energy Division, UNECE
10:15-10:20	Q&A session, comments	
10:20-10:35	Development of the NGV market in the UNECE project countries	Vasily Zinin - Executive Director of the National Gas Vehicles Association, Russia
10:35-10:50	Decarbonization of transport sector in Kazakhstan until 2030 in the light of the Roadmap for the implementation of NDCs of the Republic of Kazakhstan for 2021-2025 and the UN Agenda 2030	Gulmira Ismagulova - Deputy General Director of JSC "Zhasyl Damu"
10:55-11:10	Discussion	
11:10-11:30	Coffee break	
11:30-11:45	MRV issues, collecting necessary indicators to track progress towards the goal of the transport decarbonization	Alexander Cherednichenko - Chief Specialist of the Department of Greenhouse Gas Inventory of JSC "Zhasyl Damu"
11:45-11:50	Q&A session, comments	
11:50-12:05	Car life cycle analysis. Carbon footprint: comparing gas, petrol, diesel, and electric vehicles	Evgeni Pronin - Coordinator, Blue Corridor NGV Rally
12:05-12:10	Q&A session, comments	
12:10-12:30	The state and development objectives of the NGV market in Kazakhstan. The relevance of the study of the intensity of the traffic of gas vehicles, ensuring traffic safety and refueling with gas. Creation of additional conditions for the transit of vehicles through the territory of Kazakhstan.	Talgat Arystanbaev - acting Chairman of the Board of the ALE "Gas Engine Association of Kazakhstan"
12:30-12:50	Discussion	
12:50-13:00	Group photo	Organizers
13:05-14:30	Lunch	
14:30-14:45	Pilot project for the use of liquefied natural gas in mainline diesel locomotives	Bolat Zhardemov - General Director of the "Research Center for Complex Transport Problems"
14:45-14:50	Q&A session, Comments	
Session II "Best Practices of Regulatory, Legal, Economic and Technical Activities of State Support Measures to Increase the Share of CNG and LNG vehicles"		
14:55-15:10	European best practices in promoting the use of CNG/LNG	Peter Meyer - Head of External Relations, ZukunftGas
15:10-15:15	Q&A session, comments	
15:15-15:30	State policy and incentives for the use of natural gas for vehicles in the Russian Federation	Alexander Klyushin - Deputy Head of the Department for the Development of Regional Gas Markets, Russian Energy Agency of the Ministry of

		Energy of the Russian Federation
15:30-15:45	Support measures, preferences, and subsidies for participants in the gas motor fuel market in the Russian Federation	Vasily Zinin - Executive Director of the National Gas Engine Association of the Russian Federation
15:45-16:00	Development of the gas-motor fuel market in the Republic of Belarus. Gasification of the international transport route Europe-China	Daniil Marchenkov - Head of the Minsk branch of the gas-main pipeline management of JSC "Gazprom Transgaz Belarus"
16:00-16:30	Discussion	
16:30-18:30	Field trip: Visit to the gas bus fleet KAP-2 in Almaty <i>Responsible: the representative of the akimat of Almaty, LLP "AlmatyElektroTrans" Bekbergenov Erbol</i>	
Second day - November 25, 2021		
9:00-9:30	Registration of offline participants, connecting online participants to the event	Organizers
Continuation of the Session II "Best Practices of Regulatory, Legal, Economic and Technical Activities of State Support Measures to Increase the Share of CNG and LNG Vehicles" <i>Moderator - Daniyar Baltagulov, acting Director of the Department of Gas and Petroleum Chemistry of the Ministry of Energy of the Republic of Kazakhstan</i>		
9:35-9:50	Organization of technical examination of gas cylinders and improvement of research and technical documentation in this area on public and private transport	Branko Milicevic -Economic Affairs Officer, UNECE
9:50-9:55	Q&A session, comments	
9:55-10:10	The current state and problems of the regulatory and technical support for the use of CNG / LNG as a motor fuel	Yerbol Tokhtarov - Executive Director of the ALE "Gas Engine Association of Kazakhstan"
10:10-10:15	Q&A session, comments	
10:15-10:30	Technologies and economics of safety assurance on NGVs	Rinat Biktashev - Development Director of RariTEK Holding JSC (RF)
10:30-10:35	Q&A session, comments	
10:35-10:45	Experience in expanding the use of natural gas as a vehicle fuel in Almaty	Erbol Bekbergenov - Department of Urban Mobility of Almaty, Head of Operations Department of LLP "Almatylectrotrans"
10:45-11:05	Discussion	
11:05-11:25	Coffee break	
11:25-11:40	Comprehensive plan for the development of LNG supply and consumer infrastructure in the Republic of Kazakhstan. Investment	Donald Streu - President and Chief Executive Officer of Condor Petroleum Inc. (Canada)

	proposal of the company "Condor Petroleum Inc."	
11:40-11:45	Q&A session, comments	
11:45-11:55	Development of CNG-fueled vehicle assembly production in Kazakhstan	Adilbek Gaev - director of an automobile plant in the group of companies "Astana Motors" JSC
11:55-12:00	Q&A session, comments	
12:00-12:15	Regulatory powers in the area of control over the safe operation of vehicles with gas equipment in Kazakhstan	Zhambul Dzhabaev - Head of Department for the Protection of Population and Territories of the Committee for Civil Defense and Military Units of the Ministry of Emergency Situations of the Republic of Kazakhstan
12:15-12:20	Q&A session, comments	
12:20-12:35	Digitalization of the refuelling process for the creation of a unified database for recording gas engine fuel consumption and monitoring the technical condition of gas vehicles	Amir Urisov - Director of LLP "Nipo grup"
12:35-13:00	Discussion	
13:00-14:30	Lunch	
14:30-14:45	Presentation of the research plan to safe operations of NGVs and assessment of economic, environmental and social effects of the transition of the transport sector of Kazakhstan to natural gas	Representatives of the UNECE, JSC "Zhasyl Damu", KazTransGas
14:45-15:15	Discussion of opportunities for co-financing and implementation of measures to remove barriers to transport decarbonization in Kazakhstan	International financial organizations, the JSC NWF "Samruk-Kazyna", associations and all the interested
15:15-15:45	Summing up the outcomes of the workshop. Recommendations for ensuring the conversion of vehicles to CNG and LNG in Kazakhstan	Representative of the Ministry of Ecology, Geology and Natural Resources
15:45-15:50	Common photo	
15:50-18:00	Field trip: A visit to the CNG filling station of AvtoGazAlmaty LLP (Uteпов St. & Rozybakiev St.), demonstration of the software for recording the volume of gas stations <i>Responsible: Bataalkhanov Asylbek - General Director of Autogaz Almaty LLP; Urisov Amir - Director of LLP "Nipo grup", Almatyetrotrans</i>	
19:00-21:00	Sightseeing in Almaty, Kok-tobe. Official dinner in a restaurant	Organizers