National Experience in the Development of an Environmentally Friendly and Energy Efficient Transport Sector

April 12-13, 2023

Alina Chetverkina
Chief expert, Department of Strategic Development
Ministry of Transport of the Russian Federation
Transport Strategy of the Russian Federation until 2030 with forecast until 2035

- Electrification and gasification of public transport
- Introduction of new transport and information technologies, automatic driving systems, automated control, monitoring and positioning systems
- Transition of road transport to hybrid analogues, development of charging infrastructure for electric vehicles (including electric buses)
CONCEPT FOR THE DEVELOPMENT OF PRODUCTION AND USE OF ELECTRIC ROAD TRANSPORT IN THE RUSSIAN FEDERATION FOR THE PERIOD UP TO 2030

- Creation of the necessary engineering and transport infrastructure
- Removal of existing regulatory barriers to the use of electric road transport
- Development of the production base for the production of electric motor vehicles
TARGETS FOR THE PRODUCTION OF ELECTRIC VEHICLES AND DEVELOPMENT OF CHARGING INFRASTRUCTURE FOR THE PERIOD UNTIL 2030

Slow charging stations (pcs)  Fast charging stations (pcs)
MEASURES TO REDUCE THE NEGATIVE IMPACT OF TRANSPORT ON THE ENVIRONMENT

- renewal of urban electric transport,
- introduction of intelligent transport systems,
- optimization of the route network of urban electric transport,
- use of outdoor LED lamps and automated lighting control systems,
- modernization of urban electric transport infrastructure,
- construction of city bypasses
Aeroflot calculates savings in fuel and energy resources and assesses the reduction of greenhouse gas emissions.

PAO Sovcomflot has adopted a declaration of commitment to sustainable development, which sets out the strategic directions of the company's activities.
Russian Railways has developed an Energy and Environmental Development Strategy for the period up to 2030 and for the future up to 2035.

The main goals:
- to increase energy efficiency;
- minimize the impact of production activities on the environment.
**DEVELOPMENT OF PARKS OF ENERGY-EFFICIENT EQUIPMENT OF JSC "STATE TRANSPORT LEASING COMPANY"**

**State Transport Leasing Company is a tool for the implementation of the state policy for the sustainable development of the transport complex. Investing for over 10 years in transport and infrastructure leasing projects to reduce the negative environmental impact and support climate change.**

<table>
<thead>
<tr>
<th>Effects</th>
<th>Volume of Purchases</th>
<th>Total Investment</th>
<th>Reducing Emissions in Atmosphere</th>
</tr>
</thead>
<tbody>
<tr>
<td>Creating a Quality Urban Environment</td>
<td>6000 units</td>
<td>173 billion rubles</td>
<td>33.4 thousand tons of CO₂-eq.</td>
</tr>
<tr>
<td>Comfort and Safety of Public Transport</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Renewal of Transport</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Improving Energy Efficiency and the Environment of Transport</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Public Passenger Transport and Special Machinery**

- Gas powered buses
- Trolleybuses
- Trams
- Trucks and special machinery

- 5,4 thousand units
- 63.6 billion rubles

**Water Vessels with Engines on LNG and Electricity**

- Tankers
- Passenger ships
- Cargo-passenger vessels

- 20 Units
- 70 billion rubles

**Infrastructure for Green Transport**

- Cryomobile refueling complexes
- Cryomobile tank semi-trailers

- 10 Units
- 0.5 billion rubles

**Railway Passenger Transport**

- Electric train cars

- 578 Units
- 39.2 billion rubles

*Due to the operation of 4.5 thousand buses running on gas motor fuel in comparison with vehicles running on traditional fuel (gasoline, diesel)*
THANK YOU FOR YOUR ATTENTION!