MINISTRY OF TRANSPORT OF THE RUSSIAN FEDERATION

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Interregional Workshop on Electrification of Urban Mobility (WP.5 35th session)

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Dmitry Shiyan
Deputy Director,
International Cooperation Department

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TRANSPORT STRATEGY OF THE RUSSIAN FEDERATION UP TO 2035

- use of new energy-efficient vehicles and hybrid energy storage systems
- transition to electric and gas-fueled public transport
- development of charging infrastructure for electric vehicles (including electric buses)

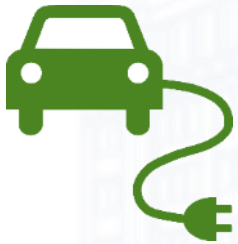
-70% reduction of carbon footprint made by public transport

by 2035

80% share of electric transport in the purchase of new public transport rolling stock

Implementation - renewal of urban transport rolling stock with priority improvement of environmental class and (or) electrification

CONCEPT FOR THE DEVELOPMENT OF ELECTRIC TRANSPORT IN RUSSIA UP TO 2030



2025 (I stage)	**25.000**	**9.400**
2030	**10%** of all cars to be produced	**72.000**

Implementation – demand support programs

- preferential leasing
- favorable loans
- transportation tax relief
- free use of toll roads

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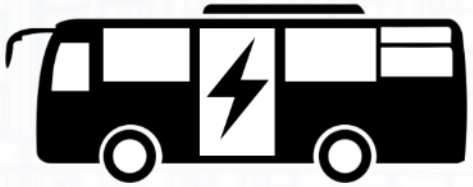
URBAN ELECTRIC TRANSPORT DEVELOPMENT PROGRAM

Projects in 10 cities for next 5 years

477 

97 

510km 

Integrated digital platform
for public transport management

- Planning routes
- Monitoring and traffic control
- Real-time passenger information

Domestic production of rolling stock and infrastructure

Federal budget subsidies
65.9 bln roubles *(~1.1 bln USD)*

NATIONAL PROJECT “SAFE AND QUALITY ROADS”

Purchase by regional authorities of new buses, trolleybuses and trams

Government support - leasing terms at a **60% discount**

Selecting cities on a competitive basis

Operation of new vehicles on key routes with high frequency and quality of service

2020	**64**	**43**
2021		**153**
2022-2024 *(planned)*	**27**	**200**

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NATIONAL PROJECT “CLEAN AIR”

Industrial cities with high level of pollution and GHG emissions receive direct funds from the Government to purchase new electric transport and modernize tram and trolleybus infrastructure

Goal – reduction of emissions in major industrial centers by **at least 20%**

2021	**49**	**120**
2022-2024 *(planned)*	**49**	**91**
	35	

DIFFERENT CITY-LEVEL APPROACHES TO URBAN ELECTRIC PUBLIC TRANSPORT DEVELOPMENT

Moscow	Replacement of trolleybuses and diesel buses by electric buses Modernization of existing tram network and urban rail
Saint-Petersburg	Use of trolleybuses with traction batteries for autonomous running up to 20 km New tram lines construction under concession contracts
Other cities	Modernization of existing tram and trolleybus networks Construction of new tram lines in several cities Funding by federal subsudies and national projects

CASE: MOSCOW

600 new low-floor trams since 2014
+ 150 more to come

Separation of tracks with markings and stone barriers
Construction of tram platforms at the same level with tram floor

1000+ electric buses since 2018
+ 1300 more in next 2.5 years

40-50 km of range after 8-10 minutes charging at terminus
200 charging stations now working + 200 more by 2024
The largest electric bus depot in Europe for 300 vehicles

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CASE: MOSCOW

900 electric sharing bicycles
New sharing stations only for e-bikes

100+ stations for charge of electric cars
Parking places only for electric cars

40.000 e-scooters by sharing services
GPS-based slow zones (5-15 km/h)
in parks and crowded places for safety of pedestrians

CASE: SAINT-PETERSBURG

160+ trolleybuses with traction batteries (the largest fleet in Russia)
Extension of existing trolleybus routes (up to 20 km without overhead wire) with minimal investments to provide more access and better connections

Use of electric buses with night charging in depot (up to 240 km of range)
Electric bus depot for 400 vehicles planned for 2024
550 electric buses planned for 2026

CONCESSION PROJECTS IN URBAN ELECTRIC TRANSPORT

Taganrog – full reconstruction of tram network
Investments: USD 195 mln
Concession period: 30 years
45 km of tracks, 60 new trams,
80 modern stops, new tram depot

Saint-Petersburg - “Chizhik” tram network
Investments: USD 235 mln
Concession period: 30 years
23 new modern trams, 38 km of “silent” tracks, automated control system

THANK YOU FOR YOUR ATTENTION!