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The General Office of the State Council on the  
printing and distribution of the new energy  
automobile industry  
Notice of the Development Plan (2021-2035).  
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The people's governments of all provinces, autonomous regions and municipalities directly under the Central Government, ministries and commissions under the State Council, and agencies directly under the State Council:

The "New Energy Vehicle Industry Development Plan (2021-2035)" has been approved by the State Council and is hereby issued to you, please implement it carefully.

General Office of the State Council  
October 2020, 10

(This piece is publicly available)

New Energy Vehicle Industry Development Plan (2021-  
2035)

The development of new energy vehicles is the only way for China to move from a major automobile country to an automobile power, and it is a strategic measure to address climate change and promote green development. Since the State Council issued the "Energy-saving and New Energy Vehicle Industry Development Plan (2012-2012)" in 2020, China has adhered to the strategic orientation of pure electric drive, and the development of new energy vehicle industry has made great achievements, becoming one of the important forces in the development and transformation of the world automobile industry. At the same time, the development of new energy vehicles in China is also facing problems such as weak core technological innovation capabilities, quality assurance systems to be improved, infrastructure construction still lagging behind, imperfect industrial ecology, and increasingly intensified market competition. In order to promote the high-quality development of the new energy vehicle industry and accelerate the construction of an automobile power, this plan is formulated.

Chapter 1 Development Trends

Section 1 New energy vehicles inject new momentum into the development  
of the world economy

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At present, a new round of global scientific and technological revolution and industrial transformation is booming, the integration of automobiles with energy, transportation, information and communication and other related technologies is accelerating, and electrification, networking, and intelligence have become the development trend and trend of the automotive industry. New energy vehicles integrate new energy, new materials and Internet, big data, artificial intelligence and other transformative technologies, promote the transformation of vehicles from simple transportation to mobile intelligent terminals, energy storage units and digital space, drive the transformation and upgrading of energy, transportation, information and communication infrastructure, promote the optimization of energy consumption structure, improve the intelligent level of transportation system and urban operation, and are of great significance to building a clean and beautiful world and building a community with a shared future for mankind. In recent years, the world's major automobile countries have strengthened strategic planning and policy support, multinational automobile enterprises have increased R&D investment, improved industrial layout, and new energy vehicles have become the main direction of the transformation and development of the global automobile industry and an important engine for promoting the sustained growth of the world economy.

## Section 2 China's new energy vehicles have entered a new stage of accelerated development

Profound changes are taking place in the form of automobile products, transportation modes, energy consumption structure and social operation mode, providing unprecedented development opportunities for the new energy vehicle industry. After years of continuous efforts, China's new energy vehicle industry technology level has been significantly improved, the industrial system has become increasingly perfect, and the competitiveness of enterprises has been greatly enhanced, and since 2015, production and sales and ownership have ranked first in the world for five consecutive years, and the industry has entered a new stage of superimposed convergence and integrated development. We must seize strategic opportunities, consolidate good momentum, give full play to advantages in infrastructure, information and communication and other fields, continuously improve the core competitiveness of the industry, and promote the high-quality and sustainable development of the new energy vehicle industry.

## Section 3 Integration and opening up have become a new feature of the development of new energy vehicles

With the comprehensive transformation of automobile power sources, production and operation methods, consumption and use patterns, the new energy vehicle industry ecology is gradually evolving from a "chain relationship" between parts and vehicle R&D, production and marketing service enterprises to a "network ecology" with the participation of multiple subjects in automobile, energy, transportation, information and communication and other fields. Mutual empowerment and coordinated development have become the intrinsic needs of the development and growth of various market entities, and cross-industry and cross-field integrated innovation and more open and inclusive international cooperation have become the characteristics of the times for the development of the new energy vehicle industry, which has greatly enhanced the momentum of industrial development, stimulated market vitality, and promoted the formation of a new

pattern of industrial development with mutual integration and win-win cooperation.

## Chapter II: Overall Deployment

### Section 1 General Idea

Guided by Xi Jinping Thought on Socialism with Chinese Characteristics for a New Era, adhere to the development concept of innovation, coordination, green, openness and sharing, take deepening supply-side structural reform as the main line, adhere to the development direction of electrification, networking and intelligence, deeply implement the national strategy for the development of new energy vehicles, focus on integrated innovation, break through key core technologies, improve industrial basic capabilities, build a new industrial ecology, improve the infrastructure system, optimize the industrial development environment, and promote the high-quality and sustainable development of China's new energy vehicle industry. Accelerate the construction of an automobile powerhouse.

### Section 2: Basic Principles

**Market dominant.** Give full play to the decisive role of the market in resource allocation, and strengthen the main position of enterprises in the selection of technical routes and the construction of production service systems; Give better play to the government's role in strategic planning guidance, standard and regulation formulation, quality and safety supervision, market order maintenance, green consumption guidance, etc., to create a good environment for industrial development.

**Driven by innovation.** Deeply implement the innovation-driven development strategy, establish a technological innovation system with enterprises as the main body, market-oriented, and industry-university-research collaboration, improve the institutional environment for stimulating and protecting innovation, encourage the parallel development of multiple technical routes, support all kinds of subjects to jointly overcome key core technologies, increase business model innovation, and form a new industrial innovation ecology.

**Coordinated advancement.** Improve the coordination and promotion mechanism of horizontal coordination and vertical penetration, promote the deep integration of new energy vehicles with energy, transportation, and information and communication, coordinate and promote technology research and development, standard formulation, promotion and application, and infrastructure construction, and transform ultra-large-scale market advantages into industrial advantages.

**Open development.** Practice the concept of openness, integration, mutual benefit and win-win cooperation, expand high-level opening up, and promote reform, development and innovation through opening-up; Adhere to the combination of "bringing in" and "going out", strengthen international cooperation, actively participate in international competition, cultivate new advantages in the new energy vehicle industry, and deeply integrate into the global industrial chain and value chain system.

### Section 3: Development Vision

By 2025, the competitiveness of China's new energy vehicle market will be significantly enhanced, major breakthroughs will be made in key technologies such as power batteries, drive motors, and vehicle operating systems, and the safety

level will be comprehensively improved. The average power consumption of new pure electric passenger vehicles has dropped to 12.0 kWh/20 km, the sales volume of new energy vehicles has reached about <>% of the total sales of new vehicles, and highly autonomous vehicles have achieved commercial application in limited areas and specific scenarios, and the convenience of charging and swapping services has been significantly improved.

After 15 years of continuous efforts, the core technology of China's new energy vehicles has reached the international advanced level, and the quality brand has strong international competitiveness. Pure electric vehicles have become the mainstream of new sales vehicles, public sector vehicles have been fully electrified, fuel cell vehicles have been commercialized, highly autonomous vehicles have achieved large-scale applications, charging and swapping service networks are convenient and efficient, and the construction of hydrogen fuel supply system is steadily advancing, effectively promoting the level of energy conservation and emission reduction and the improvement of social operation efficiency.

Chapter III: Enhancing Technological Innovation Capabilities

Section 1: Deepen the "three vertical and three horizontal" R&D layout

**Strengthen vehicle integration technology innovation.** With pure electric vehicles, plug-in hybrid (including range extender) vehicles and fuel cell vehicles as the "three verticals", the whole vehicle technology innovation chain is laid out. Research and development of a new generation of modular high-performance vehicle platform, tackle the integrated design of pure electric vehicle chassis and multi-energy power system integration technology, break through common energy-saving technologies such as intelligent energy management control, light weight, and low friction resistance of the whole vehicle, improve the safety technology level such as battery management, charging connection, and structural design, and improve the comprehensive performance of new energy vehicles.

**Improve the basic capabilities of the industry.** With power battery and management system, drive motor and power electronics, networking and intelligent technology as the "three horizontals", build a key component technology supply system. Carry out advanced modular power battery and fuel cell system technology research, explore a new generation of vehicle motor drive system solutions, strengthen the development of key components and systems for intelligent networked vehicles, break through bottlenecks such as computing and control basic platform technology and hydrogen fuel cell vehicle application support technology, and improve the research and development capabilities of basic key technologies, advanced basic processes, basic core components, and key basic materials.

Box 1 New energy vehicle core technology research project
<p><b>Implement battery technology breakthrough actions.</b> Carry out research on key core technologies such as positive and negative electrode materials, electrolytes, separators, membrane electrodes, etc., strengthen the technical research of power batteries and fuel cell system short boards with high strength, lightweight, high safety, low cost and long life, and accelerate the research and development and industrialization of solid-state power battery technology.</p> <p><b>Implement intelligent network technology innovation projects.</b> With new energy vehicles as the carrier of the first application of intelligent network technology, it supports cross-border collaboration between enterprises, develops key technologies such as complex environment fusion perception, intelligent network decision-making and</p>

control, and cyber-physical system architecture design, and breaks through core technologies and products such as in-vehicle intelligent computing platforms, high-precision maps and positioning, wireless communication (V2X) between vehicles and other devices outside the vehicle, and by-wire execution systems.

Implement the project of upgrading the basic technology of new energy vehicles. Break through key technologies and products such as automotive-grade chips, automotive operating systems, new electronic and electrical architectures, and high-efficiency and high-density drive motor systems, and overcome hydrogen fuel cell vehicle application support technologies such as hydrogen energy storage and transportation, hydrogen refueling stations, and on-board hydrogen storage. Support the R&D and innovation of basic common technologies such as basic components, key production equipment, high-end test instruments, development tools, and high-performance automatic testing equipment, tackle key technologies such as massive heterogeneous data organization analysis of intelligent manufacturing of new energy vehicles, integrated control of reconfigurable flexible manufacturing systems, and carry out the industrialization and application of key materials such as high-performance aluminum-magnesium alloys, fiber-reinforced composite materials, and low-cost rare earth permanent magnet materials.

## Section 2: Accelerate the establishment of common technological innovation platforms

Establish and improve the joint R&D research mechanism of leading enterprises, state key laboratories and national manufacturing innovation centers, focus on core processes, special materials, key components, manufacturing equipment and other shortcomings, actively explore from different technology paths, and improve the supply capacity of key common technologies. Guide cross-field cooperation in automobiles, energy, transportation, information and communication, establish an integrated innovation platform for new energy vehicles, smart energy, and intelligent transportation for future travel, jointly tackle key technologies based on basic cross-cutting, and improve the integration and innovation capabilities of new energy vehicles and related industries.

## Section 3: Enhance industry public service capabilities

Relying on industry associations, innovation centers and other institutions to coordinate and promote the joint construction and sharing of various innovative service platforms, improve the support capacity of public services such as technology transfer, information services, talent training, project financing, and international exchanges. Apply virtual reality, big data, artificial intelligence and other technologies to establish a virtual simulation and test verification platform for vehicle electrification, networking, and intelligence, and improve the measurement testing, performance evaluation, testing and certification capabilities of complete vehicles and key components.

# Chapter IV: Building a New Industrial Ecology

## Section 1: Support the development of eco-oriented enterprises

Encourage cross-border collaboration among enterprises in the fields of new energy vehicles, energy, transportation, information and communication, and build eco-oriented enterprises covering key links of the industrial chain such as solutions, R&D and production, use guarantee, and operation services through open

cooperation and benefit sharing around diversified production and diversified application needs. In areas with a good industrial foundation and a concentration of innovation factors, give play to the leading role of leading enterprises, cultivate a number of upstream and downstream collaborative innovation, large and small enterprises integrated development, international influence and competitiveness of new energy vehicle industry clusters, and improve the modernization level of the industrial chain.

Section 2: Promote the innovative application of key systems

**Accelerate application development for automotive operating systems.** Taking the needs of vehicle enterprises as the traction, we will give full play to the role of innovation platforms such as leading enterprises and national manufacturing innovation centers, adhere to software and hardware collaborative research, and focus on the development of vehicle operating systems. Focusing on the automotive operating system, build a development and application ecology of in-depth cooperation between market players in the fields of complete vehicles, key components, basic data and software. Through rapid product iteration, expand the scale of users and accelerate the industrial application of automotive operating systems.

Box 2 Ecological construction action of automotive operating system
To meet the needs of intelligent application of new energy vehicles, encourage enterprises in the fields of vehicles and parts, Internet, electronic information, and communications to form alliances, take the development and application of automotive operating systems as the core, improve the security, reliability and convenience of operating systems and applications through iterative upgrades, expand the scale of applications, and form a good ecology of openness, sharing and collaborative evolution.

**Promote the development of the whole value chain of power batteries.** Encourage enterprises to improve the ability to guarantee key resources such as lithium, nickel, cobalt and platinum. Establish and improve the modular standard system of power batteries, accelerate breakthroughs in key manufacturing equipment, and improve process level and production efficiency. Improve the recycling system of power battery recycling, cascade utilization and recycling, and encourage the joint construction of shared recycling channels. Establish and improve the management system of power battery transportation, storage, maintenance, safety inspection, decommissioning and withdrawal, recycling and other links, and strengthen the supervision of the whole life cycle.

Box 3 Build an efficient recycling system for power batteries
Based on the sustainable development of new energy vehicles, implement the extended producer responsibility system, strengthen the construction of the traceability management platform for new energy vehicle power batteries, and realize the traceability of the whole life cycle of power batteries. Support the innovative application of power battery echelon products in the fields of energy storage, energy backup, charging and replacement, and strengthen the research and development of residual energy detection, residual value assessment, reorganization and utilization, safety management and other technologies. Optimize the industrial layout of recycling, promote the efficient extraction of valuable elements of

scrapped power batteries, and promote the development of industrial resources, high value and green.

### Section 3: Improving the Level of Intelligent Manufacturing

Promote the in-depth application of intelligent technology in key links such as R&D and design, manufacturing, warehousing and logistics, operation and management, and after-sales service of new energy vehicles. Accelerate the development and integration of core industrial software such as simulation, management, and control of intelligent manufacturing of new energy vehicles, and carry out application demonstrations of smart factories and digital workshops. Accelerate the promotion and application of the product life cycle collaborative management system, support the construction of an integrated design, manufacturing, and service demonstration platform, and improve the intelligence level of the entire industry chain of new energy vehicles.

### Section 4: Strengthening Quality Assurance Assurances

**Promote quality brand building.** Carry out actions to improve the quality of new energy vehicle products, guide enterprises to strengthen the development and application of whole-process reliability technologies such as design, manufacturing, testing and verification, make full use of advanced technologies such as the Internet, big data, and blockchain, and improve the quality control and traceability mechanism of the whole life cycle of products. Guide enterprises to strengthen brand development strategy, focus on improving quality and service level to strengthen brand building.

**Improve the security system.** Implement a safe production mechanism that combines enterprise responsibility, government supervision, industry self-discipline, and social supervision. Strengthen the main responsibility of enterprises for product safety, implement the extended producer responsibility system, and strengthen the quality and safety management, safety status monitoring and maintenance testing of key systems such as complete vehicles and power batteries, and electronic controls. Improve safety standards and regulations for new energy vehicles, parts, maintenance, testing, charging and replacement, etc., and strengthen safety production supervision and management and new energy vehicle safety recall management. Encourage industry organizations to strengthen technical exchanges, sort out and summarize experience, and guide enterprises to continuously improve their safety level.

## Chapter V: Promoting the Integrated Development of Industries

### Section 1: Promote the integrated development of new energy vehicles and energy

**Strengthen the energy interaction between new energy vehicles and the grid (V2G).** Strengthen the technical research of high-cycle life power batteries and promote the application of low-power DC technology. Encourage local governments to carry out V2G demonstration applications, coordinate the charging and discharging of new energy vehicles and power dispatching needs, and comprehensively use policies such as peak-valley electricity prices and preferential charging for new energy vehicles to achieve efficient interaction between new energy vehicles and power grid energy, reduce the cost of electricity consumption of new energy vehicles,

and improve the response capabilities of power grids such as peak regulation and frequency regulation and safety emergencies.

**Promote efficient synergy between new energy vehicles and renewable energy.** Promote the information sharing and integration of new energy vehicles with meteorological and renewable energy power forecasting and forecasting systems, coordinate the coordinated scheduling of new energy vehicle energy utilization and wind power generation and photovoltaic power generation, and increase the proportion of renewable energy application. Encourage the construction of "solar storage, charging and discharging" (distributed photovoltaic power generation - energy storage system - charge and discharge) multi-functional integrated station. Support the commercial demonstration operation of fuel cell vehicles in areas where conditions permit.

## Section 2: Promote the integrated development of new energy vehicles and transportation

**Develop integrated smart mobility services.** Accelerate the construction of a new intelligent traffic management and control system covering front-end information collection, edge distributed computing, and cloud collaborative control. Accelerate the application of new energy vehicles in time-sharing leasing, urban public transport, taxis, site vehicles and other fields, and optimize the use environment of new energy vehicles in the field of public services. Guide automobile manufacturers and mobility service enterprises to jointly build a "one-stop" service platform to promote the development and application of automatic valet parking technology.

**Build an intelligent and green logistics and transportation system.** Promote the application of new energy vehicles in urban distribution, port operations and other fields, and facilitate the passage of new energy trucks. Develop "Internet +" efficient logistics, innovate smart logistics operation models, promote the application of new modes such as network freight and trailer sharing, and create a safe and efficient new format of logistics and transportation services.

## Section 3: Promote the integrated development of new energy vehicles and information and communication

**Promote efficient collaboration between people, vehicles, roads and clouds linked by data.** Based on vehicle perception, traffic control, urban management and other information, build a multi-layer data fusion and computing processing platform of "people-vehicle-road-cloud", carry out demonstration applications in specific scenarios, regions and roads, and promote the innovation of new energy vehicles and information and communication integration application services.

**Build a network security assurance system.** Improve the network security management system of new energy vehicles, build a unified automotive identity authentication and security trust system, promote the in-depth application of cryptography technology, strengthen the safety detection of vehicle information systems, service platforms and key electronic components, strengthen the hierarchical classification of new energy vehicle data and compliance application management, improve risk assessment, early warning monitoring, and emergency response mechanisms, and ensure the information security of all links of "vehicle end-transmission pipe network-cloud".

## Section 4: Strengthen standards docking and data sharing



Establish a comprehensive standard system for the integrated development of new energy vehicles and related industries, and clarify technical interface standards such as vehicle operating system, vehicle basic map, vehicle pile information sharing, and cloud control basic platform. Establish a cross-industry and cross-field comprehensive big data platform to promote the co-construction, sharing and interconnection of all kinds of data.

Box 4 Smart City New Energy Vehicle Application Demonstration Action
Carry out comprehensive demonstrations such as intelligent and orderly charging, integrated development of new energy vehicles and renewable energy, urban infrastructure and intercity intelligent transportation, and heterogeneous multi-mode communication network integration, and support urban driverless logistics and distribution, municipal sanitation, bus rapid transit (BRT), automatic valet parking, and specific scenario demonstration applications with intelligent networked vehicles as the carrier.

Chapter VI: Improving the Infrastructure System

Section 1: Vigorously promote the construction of charging and swapping networks

**Accelerate the construction of charging and replacing infrastructure.** Scientifically layout charging and swapping infrastructure, and strengthen overall coordination with urban and rural construction planning, power grid planning and property management, urban parking, etc. Relying on "Internet +" smart energy, improve the level of intelligence, actively promote the charging service model of residential areas with intelligent and orderly slow charging as the main and emergency fast charging as the supplement, accelerate the formation of highway and urban and rural public charging networks that are moderately advanced, fast charging as the mainstay, and slow charging as the supplement, encourage the application of power exchange mode, strengthen the research and development of new charging technologies such as intelligent and orderly charging, high-power charging, and wireless charging, and improve charging convenience and product reliability.

**Improve charging infrastructure service levels.** Guide enterprises to jointly establish charging facility operation service platforms to achieve interconnection, information sharing and unified settlement. Strengthen the research and development of technologies such as safety monitoring and early warning of charging equipment and power distribution systems, standardize the use of electromagnetic spectrum in wireless charging facilities, improve the safety, consistency and reliability of charging facilities, and improve the level of service guarantee.

**Encourage business model innovation.** Combined with the renovation of old residential areas and urban renewal, guide multiple parties to jointly carry out the construction and operation of charging facilities, and support the development of cooperation models such as multiple vehicles in residential areas and sharing of adjacent parking spaces. Encourage the combination of charging stations and commercial real estate, build integrated parking and charging service facilities, improve charging service capabilities in public places, and expand value-added services. Improve the insurance system of charging facilities to reduce the risks of enterprise operation and user use.

Section 2: Coordinate and promote the construction of intelligent road network facilities

Promote the construction of a new generation of wireless communication networks, and accelerate the formulation and upgrading of wireless communication (C-V2X) standards for wireless communication between vehicles based on cellular communication technology and other devices outside the vehicle. Promote the digital transformation and upgrading of road infrastructure such as traffic signs and signs, strengthen the intelligent interconnection between traffic lights, traffic sign markings, communication facilities, intelligent roadside equipment, and vehicle-mounted terminals, and promote the construction of standards for the intelligent construction and transformation of urban road infrastructure. Accelerate the construction of differential base stations and promote the application of Beidou and other satellite navigation systems in the field of high-precision positioning.

Section 3: Orderly advance the construction of a hydrogen fuel supply system

Improve the economy of hydrogen fuel production, storage and transportation. Carry out the application of industrial by-product hydrogen and renewable energy hydrogen production technology according to local conditions, and accelerate the industrialization of advanced and applicable hydrogen storage materials. Carry out the demonstration and application of high-pressure gas, cryogenic gas, low-temperature liquid and solid and other forms of storage and transportation technology, explore the construction of hydrogen fuel transportation pipelines, and gradually reduce the cost of hydrogen fuel storage and transportation. Improve the standard system for hydrogen fuel production, storage, transportation, refueling, etc. Strengthen hydrogen fuel safety research and strengthen the safety supervision of the whole chain.

Promote the construction of hydrogen refueling infrastructure. Establish and improve the management norms of hydrogen refueling infrastructure. Guide enterprises to rationally layout hydrogen refueling infrastructure according to hydrogen fuel supply and consumer demand, and improve the level of safe operation. Support the use of existing sites and facilities to carry out integrated oil, gas, hydrogen, and electricity supply services.

Box 5 Build an intelligent infrastructure service platform
Coordinate the formulation and revision of standards such as charging and swapping technology and interface, hydrogenation technology and interface, vehicle hydrogen storage device, vehicle communication protocol, intelligent road construction, data transmission and settlement, etc., and build a standard system for infrastructure interconnection. Guide enterprises to build service platforms such as intelligent infrastructure, high-precision dynamic maps, and cloud-controlled basic data, and carry out pilot demonstrations of comprehensive services such as charging and swapping, hydrogenation, and intelligent transportation, so as to realize infrastructure interconnection and intelligent management.

Chapter VII: Deepening Opening Up and Cooperation

Section 1: Expanding Openness and Exchange and Cooperation

Strengthen the docking with international economic and trade rules, fully implement the pre-entry national treatment plus negative list management system, treat new energy market entities equally, and build a market-oriented, rule-of-law, and international business environment. Give play to the role of multilateral and bilateral cooperation mechanisms and high-level dialogue mechanisms, and support domestic and foreign enterprises, scientific research institutes and industry institutions to carry out exchanges and cooperation in the fields of R&D and design, trade and investment, infrastructure, technical standards, and personnel training. Actively participate in the formulation of international rules and standards, promote the formation of an open, transparent and inclusive international market environment for new energy vehicles, create a new platform for international cooperation, and add new impetus for common development.

## Section 2: Accelerating integration into global value chains

Guide enterprises to formulate international development strategies, continuously improve international competitiveness, increase international market development, and promote industrial cooperation from production and manufacturing links to technology research and development, marketing and other whole chains. Encourage enterprises to make full use of domestic and foreign funds and establish an international consumer credit system. Support enterprises to establish international marketing service networks, and jointly build service platforms such as overseas warehousing and after-sales service centers in key markets. Improve service guarantee systems such as legal consultation, testing and certification, and talent training, guide enterprises to standardize overseas business behavior, and improve compliance management.

## Chapter VIII: Safeguard Measures

### Section 1: Deepening Industry Management Reform

We will further promote the reform of "decentralization, management and service", further relax market access, implement inclusive and prudent supervision, and promote the healthy and orderly development of new formats and models. Improve the parallel management methods of enterprise average fuel consumption and new energy vehicle credits, effectively undertake financial subsidy policies, and study and establish a connection mechanism with the carbon trading market. Strengthen supervision during and after the event, consolidate local entity responsibility, and curb chaos such as blindly launching new energy vehicle manufacturing projects. Promote the improvement of laws and regulations related to the production and management of road motor vehicles, establish and improve the exit mechanism of zombie enterprises, strengthen the supervision and inspection of the maintenance of enterprise access conditions, and promote the survival of the fittest. Give full play to the role of the market mechanism, support the merger and reorganization, bigger and stronger of advantageous enterprises, and further improve the degree of industrial concentration.

### Section 2: Complete systems of policies and regulations

Implement preferential tax policies related to new energy vehicles, and optimize measures such as classified traffic management and financial services. Promote the scientific layout and accelerate the construction of infrastructure such as charging and swapping and hydrogenation, and give financial support to

the construction of charging piles as public facilities. Break down local protections and establish a unified, open and fair market system. Encourage local governments to increase support for vehicle operations in public services, shared travel and other fields, and give preferential policies such as parking and charging for new energy vehicles. From 2021, the proportion of new energy vehicles in public areas such as public areas in national ecological civilization pilot zones and key areas for air pollution prevention and control will not be less than 80%. Formulate specific measures for incorporating R&D investment in new energy vehicles into the assessment system of state-owned enterprises. Accelerate the improvement of policies and regulations on road traffic, accident liability, and data use that meet the requirements of the development of intelligent networked vehicles. Accelerate the promotion of power battery recycling legislation.

### Section 3: Strengthen the building of a contingent of qualified personnel

Accelerate the establishment of a talent training mechanism that meets the needs of the integrated development of new energy vehicles and related industries, compile a catalog of talents in short supply in the industry, optimize the layout of disciplines in the fields of vehicle electrification, networking, and intelligence, and guide colleges and universities, scientific research institutes and enterprises to increase the introduction and training of international talents. Promote the spirit of entrepreneurship and craftsmanship, establish a positive incentive orientation, and implement diversified incentive measures such as equity and options.

### Section 4: Strengthen the protection of intellectual property rights

Deeply implement the national intellectual property strategy and encourage scientific researchers to develop high-value core intellectual property achievements in the field of new energy vehicles. Strictly implement the intellectual property protection system and strengthen the enforcement of infringement. Build a new energy vehicle intellectual property operation service system, strengthen the construction of patent application and transformation platform, and establish a patent operation model of mutual benefit and sharing and win-win cooperation.

### Section 5: Strengthening Organizational Coordination

Give full play to the role of the inter-ministerial joint conference system and local coordination mechanism for the development of energy-saving and new energy vehicle industries, strengthen departmental coordination and linkage, formulate annual work plans and departmental task divisions, strengthen the overall planning of new energy vehicles and energy, transportation, information and communication and other industries in policy planning, standards and regulations, and pay close attention to the major tasks and key tasks determined by detailed planning. All relevant departments should formulate their own work plans and supporting policies and measures around the planning goals and tasks, and according to the division of functions. All regions should effectively grasp implementation in light of local conditions, optimize industrial layout, and avoid duplicate construction. Industry organizations should give full play to their role as a bridge connecting enterprises and governments, and coordinate the formation of cross-border exchange and collaboration platforms for industries.

The Ministry of Industry and Information Technology should work with relevant departments to conduct in-depth investigation and research, strengthen follow-up guidance, and promote the smooth implementation of the plan.

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