

工业和信息化部 国家发展和改革委员会 科学技术部 公安部 生态环境部 交通运输部 国家卫生健康委员会 国家市场监督管理总局关于在部分地区开展甲醇汽车应用的指导意见

Guiding Opinions on the Application of Methanol Vehicles from the Ministry of Industry and Information Technology, the National Development and Reform Commission, the Ministry of Science and Technology, the Ministry of Public Security, the Ministry of Ecology and Environment, the Ministry of Transportation, the National Sanitation and Health Commission and the General Administration of Market Supervision.

各省、自治区、直辖市及计划单列市、新疆生产建设兵团工业和信息化、发展改革、科技、公安、生态环境、交通运输、卫生健康、市场监管主管部门，各有关单位：

To all relevant units of all the provinces, autonomous regions, municipalities directly under the Central Government and cities with separately listed plans, Xinjiang Production and Construction Military, Industrial and Information, Departments of Development and Reform, Science and Technology, Public Security, Ecological Environment, Transportation, Sanitation Health and Market Supervision:

为加快推动甲醇汽车应用，实现车用燃料多元化，保障能源安全，现就部分条件具备地区开展甲醇汽车应用工作提出以下意见：

In order to accelerate the application of methanol vehicles, diversify vehicle fuels and ensure energy security, the following opinions are proposed on the development of methanol vehicles in the regions where conditions are suitable:

一、总体要求

A. General requirements

(一) 指导思想

a) Guiding ideology

坚持以习近平新时代中国特色社会主义思想为指导，全面贯彻落实党的十九大精神，践行新发展理念，深化供给侧结构性改革，实施创新驱动发展战略，坚持因地制宜、积极稳妥、安全可控，在具备应用条件的地区发展甲醇汽车。强化甲醇汽车产业合理布局，加快完善产业政策、技术标准和市场应用保障体系，提高市场应用水平，保持我国甲醇汽车及相关产业在产品、技术及专用装备领域的国际领先地位，加快能源多元化和清洁能源汽车发展，推动传统产业转型升级，培育新的经济增长点，促进绿色循环低碳发展。

Adhering to the thoughts of President Xi Jinping on socialism with Chinese characteristics for a new era as the guide, comprehensively implement the spirit of the 19th Party Congress, practice the new development concept, deepen the supply-side structural reform, implement the innovation-driven development strategy. Adhere to local conditions, be active and secure, and be safe. Develop methanol vehicles in areas with applicable conditions. Strengthen the rational layout of the methanol automobile industry. Accelerate the improvement of industrial policies, technical standards and market application guarantee systems. Improve the market application level. ***Maintain the international leading position of China's methanol vehicles and related industries***

in the fields of products, technologies and special equipment, and accelerate energy diversification and clean energy vehicle development, promote the transformation and upgrading of traditional industries, foster new economic growth points, and promote green recycling and low carbon development.

(二) 基本原则

b) Basic principles

因地制宜，统筹协调。坚持从实际出发，立足资源禀赋，宜醇则醇，促进能源多元化。做好甲醇汽车应用与煤炭等传统工业转型升级的统筹协调，培育新动能。

Adjust measures to suit local conditions and make comprehensive coordination. Adhere to the reality, based on resource endowments, by taking advantage of methanol where it is available to enhance the diversification of energy resources. This approach is best for coordinating the development plans of methanol vehicle applications and in the transforming and upgrading of traditional industries such as coal, and foster new driving forces.

企业主体，政府引导。充分发挥市场配置资源的决定性作用，调动企业积极性和创造性。加强政策引导，完善配套服务体系，促进甲醇汽车制造、销售与甲醇燃料生产、输配、加注协同发展。

Enterprises shall play the primary roles and government is responsible for guidance. Give full attention to the decisive role of market resource allocation and mobilize the enthusiasm and creativity of enterprises. Strengthen policy guidance, improve the supporting service system, and promote the coordinated development of manufacturing and sales of methanol automobiles, and production, distribution and filling of methanol fuel.

创新驱动，绿色发展。立足科技创新，推动甲醇汽车及燃料技术研发与应用，加快甲醇汽车标准体系建设。确保甲醇汽车全生命周期达标排放。实现甲醇燃料生产过程清洁化、高效化，促进甲醇燃料绿色发展。

Employ innovation-driven, green development. Based on scientific and technological innovation, we will promote the research & development and application of methanol vehicle and fuel technologies, and accelerate the construction of the methanol vehicle standard system. Ensure that methanol vehicles meet the life cycle emission standards to achieve clean and efficient methanol fuel production processes and promote the green development of methanol fuel.

二、加快甲醇汽车制造体系建设

B. Accelerate the construction of the methanol vehicle manufacturing system

(三) 鼓励汽车及相关零部件生产企业在现有制造体系基础上，针对甲醇汽车特性，通过技术改造完善甲醇汽车制造体系，提升甲醇汽车制造技术水平，开发甲醇乘用车、商用车、非道路工程车等车辆及动力机械，满足市场需求。完善甲醇汽车生产基地建设，合理布局甲醇汽车生产。

c) Encourage automobile and related parts manufacturers to develop methanol vehicle manufacturing systems based on utilizing and improving existing manufacturing resources,

through technological transformation. Improve the technical level of methanol automobile manufacturing, and develop methanol passenger vehicles, commercial vehicles and non-road engineering vehicles, and other vehicles and power machinery to meet the demand of market. Improve the construction of methanol automobile production bases and rationally arrange methanol automobile production.

(四) 强化甲醇汽车专用零部件制造能力，围绕甲醇燃料供应和电控喷射系统、专用后处理装置、专用滤清器、专用润滑油、耐醇材料和关键零部件等领域，构建规模化制造体系，提升专用零部件制造企业的自主研发与制造水平，满足甲醇汽车发展需求。

d) Strengthen the manufacturing capacity of special parts for methanol vehicles, and build a large-scale manufacturing system around the fields of methanol fuel supply and electronically controlled injection systems, special after-treatment devices, special filters, special lubricants, alcohol-resistant materials and key components. Enhance the independent research and development and manufacturing level of special component manufacturing enterprises to meet the development needs of methanol vehicles.

(五) 着力突破甲醇高效能量转化机制、低排放控制、长寿命低成本耐腐蚀材料等共性关键技术。深入开展甲醇汽车尾气的健康影响等研究。鼓励和支持企业研发甲醇混合动力汽车、甲醇增程式电动汽车、甲醇燃料电池汽车产品。加快甲醇汽车科研成果转化及产业化应用。

e) Focus on breaking through and improving the common key technologies such as high-efficiency methanol energy conversion mechanisms, low emission control, and long-life, low-cost corrosion-resistant materials. Conduct in-depth research on the health effects of methanol vehicle emissions. Encourage and support enterprises to develop methanol hybrid vehicles, methanol extended-range electric vehicles, and methanol fuel cell vehicle products. Accelerate the transformation of scientific research results into industrial applications for methanol vehicles.

三、推进甲醇燃料生产及加注体系建设

C. Promote the construction of methanol fuel production and filling systems

(六) 鼓励资源综合利用生产甲醇，充分利用低质煤、煤层气、焦炉煤气等制备甲醇，探索捕获二氧化碳制备甲醇工艺技术及工程化应用。甲醇燃料生产企业应严格遵守生态环境保护的法律法规和排放标准要求，加大节能减排力度，最大可能减少对环境的影响。

f) Encourage the comprehensive utilization of resources to produce methanol, make full use of low-quality coal, coal-bed methane, coke oven gas, etc. to manufacture methanol, explore the process technology and engineering applications of carbon dioxide capture to produce methanol. Methanol fuel production enterprises should strictly abide by the laws and regulations of environmental protection and emission standards, increase energy conservation and emission reduction, and minimize the impact on the environment.

(七) 甲醇燃料生产企业应严格按照《车用燃料甲醇》(GB/T23510-2009)国家标准要求组织生产，建立完善的生产、储存、运输等环节的质量控制和安全管理体

料产品质量。

g) Methanol fuel production enterprises shall organize production in strict accordance with the national standards of “Methanol Fuel for Vehicles” (GB/T23510-2009), establish a best practices quality control and safety management system for production, storage and transportation, to ensure the quality of methanol fuel products.

(八) 有关地区应因地制宜、统筹布局甲醇燃料加注站建设。加注设施建设应符合国家相关标准及技术规范要求。

h) The relevant regions should adjust the construction of methanol fuel filling stations according to local conditions. The construction of the filling facilities shall comply with the relevant national standards and technical specifications.

四、加快标准体系建设

D. Accelerate the construction of the standard system

(九) 支持按照继承性、系统性、实用性原则，在现行国家、行业、团体标准基础上，针对甲醇汽车的特性及应用需求，组织制定甲醇汽车技术条件、甲醇发动机技术条件、甲醇汽车专用润滑油、甲醇基准燃料技术要求、甲醇汽车污染物排放等相关标准。

i) Support the development of methanol vehicle technical conditions, methanol engine technical conditions, and methanol vehicle technology using the principles of continuous improvement, logical systems and practicability, based on the current national, industry and group standards for the characteristics and application requirements of methanol vehicles. Formulate relevant standards for lubricants, for methanol reference fuel technical requirements and emissions standards for methanol vehicles.

(十) 加强甲醇汽车国际标准制定，支持相关行业协会、团体提出甲醇汽车、动力系统和标识标志类国际标准制定项目，在具有技术领先地位的点燃式和压燃式发动机燃烧等领域，体现甲醇汽车标准的引领性和前瞻性。

j) Strengthen the formulation of international standards for methanol vehicles, and support relevant industry associations and organizations in efforts to propose international standards development projects for methanol vehicles, power systems and signage and to reflect the leading and forward-looking nature of methanol vehicle standards. Demonstrate the use of methanol in the fields of spark ignition and compression ignition engine using leading technology.

(十一) 完善甲醇燃料及加注体系标准，研究制定车用甲醇燃料加注站设计与施工规范、车用甲醇燃料作业安全规范、甲醇燃料专用加注机、甲醇燃料添加剂等标准。

k) Improve the standards for methanol fuel and filling systems, research and formulate standards for design and construction specifications of methanol fuel filling stations for vehicles, safety specifications for methanol fuels, special fueling machines, and methanol fuel additives.

五、鼓励甲醇汽车应用

E. Encourage of methanol vehicle applications

(十二) 按照因地制宜、积极稳妥、安全可控的原则，重点在山西、陕西、贵州、甘肃等资源禀赋条件较好且具有甲醇汽车运行经验的地区，加快 M100 甲醇汽车的应用。

l) In accordance with the principle of adapting to local conditions, being active and stable, safe and controllable, focus on accelerating the application of M100 methanol vehicles in areas with good resource endowments and experience in methanol vehicle operation such as Shanxi, Shaanxi, Guizhou and Gansu, etc.

(十三) 鼓励在有条件地区的公务、出租、短途客运等领域使用甲醇汽车。鼓励在有条件地区的市政车辆、专线物流运输等领域使用甲醇商用车。

m) Encourage the use of methanol vehicles in areas such as official business, rental, and short-distance passenger transportation in conditional areas. Encourage the use of methanol commercial vehicles as municipal vehicles, special line logistics and transportation in conditional areas.

(十四) 有关地区应积极为甲醇汽车应用创造条件，给予符合中国第六阶段机动车污染物排放标准和甲醇汽车排放限值要求的甲醇汽车购买、运行等应用优惠政策。甲醇汽车制造企业应提供完善的售后服务。

n) The relevant regions should actively create favorable conditions for the application of methanol vehicles, and give preferential policies for the purchase and operation of methanol vehicles that meet the requirements of China's sixth-stage motor vehicle emission standards and methanol vehicle emission limits. Methanol automobile manufacturers should provide comprehensive after-sales service.

六、加强甲醇汽车监管

F. Strengthen methanol vehicle supervision

(十五) 依法实施环保和维修技术信息公开。甲醇汽车生产、进口企业应严格按照《大气污染防治法》、交通运输部等部委《汽车维修技术信息公开实施管理办法》(交运发(2015)146号)和原环境保护部《关于开展机动车和非道路移动机械环保信息公开工作的公告》(国环规大气(2016)3号)等规定，在产品出厂或货物入境前，在本企业官方网站公开环保信息，同步上传至生态环境部机动车和非道路移动机械环保信息公开平台(网址：www.vecc-mep.org.cn)，并每车附带随车清单；及时向交通运输部办理维修技术信息公开备案(网址：carti.rioh.cn/)，并在新车上市之日起6个月内公开维修技术信息。各地生态环境主管部门应加强对甲醇汽车环保信息公开情况的监督检查，依法严格处罚未信息公开的生产企业。

o) Implement environmental protection and maintenance technical information disclosure according to law. Methanol automobile production and import enterprises shall strictly follow the "Air Pollution Prevention and Control Law", the Ministry of Transportation and other ministries and commissions, "Administrative Measures for the Disclosure of Automobile Maintenance Technical Information" (the Ministry of Transportation ministry Issue [2015] No. 146) and the former Ministry of Environmental Protection "Announcement on Launching Environmental

Protection Information Disclosure for Motor Vehicles and Non-Road Mobile Machinery” (National Environmental Regulations [2016] No. 3) and other regulations, before the product leaves the factory or the entry of goods, the environmental information should be disclosed on the official website of the company and uploaded to the environmental protection information platform for motor vehicles and non-road mobile machinery of the Ministry of Ecology and Environment (website : www.vecc-mep.org.cn), promptly file the maintenance technical information disclosure with the Ministry of Transportation (website: carti.rioh.cn/), and open maintenance technical information within 6 months from the date of listing of the new car. The local competent ecological environment authorities shall strengthen the supervision and inspection of the disclosure of environmental information on methanol vehicles, and strictly punish the production enterprises that have not disclosed information.

(十六) 严格执行甲醇汽车排放标准。新生产轻型甲醇汽车按《轻型汽车污染物排放限值及测量方法（中国第六阶段）》（GB18352.6-2016）中规定的方法和限值进行型式检验（包括燃油蒸发和加油排放），在相关排放标准出台前，甲醇、甲醛排放限值暂分别按不大于2.5mg/km控制。自2019年7月1日起，所有生产、销售、进口的轻型甲醇汽车均应符合国六排放标准，甲醇、甲醛排放应分别达到上述限值要求。

p) Strictly implement methanol vehicle emission standards. The new production of light-duty methanol vehicles shall be type-tested (including fuel evaporation and refueling emissions) in accordance with the methods and limits specified in the "Light Vehicle Pollutant Emission Limits and Measurement Methods (China Stage 6)" (GB18352.6-2016). Before the introduction of relevant emission standards, the limits of methanol and formaldehyde emissions are temporarily controlled at no more than 2.5mg/km. From July 1st, 2019, all light-weight methanol vehicles produced, sold and imported shall comply with the national six emission standards, and methanol and formaldehyde emissions shall meet the above-mentioned limit requirements.

新生产重型甲醇汽车按《重型柴油车污染物排放限值及测量方法（中国第六阶段）》（GB17691-2018）规定的方法和限值进行型式检验，在相关排放标准出台前，甲醇、甲醛排放限值暂分别按不大于20mg/kW·h控制。重型甲醇汽车与其他重型汽车统一按照有关规定实施国六排放标准。

The new production of heavy-duty methanol vehicles shall be type-tested in accordance with the methods and limits stipulated in the “Limited emission limits and measurement methods for heavy-duty diesel vehicles (China Stage 6)” (GB17691-2018). Before the relevant emission standards are issued, the limits of methanol and formaldehyde emissions are temporarily controlled at no more than 20mg/kW·h. Heavy-duty methanol vehicles and other heavy-duty vehicles are uniformly implemented in accordance with relevant regulations.

在用甲醇汽车相关排放标准出台前，在用点燃式甲醇汽车暂按《汽油车污染物排放限值及测量方法（双怠速法及简易工况法）》（GB18285-2018）进行定期排放检验，在用柴油引燃压燃式甲醇发动机汽车可暂按《柴油车污染物排放限值及测量方法（自由加速法及加载减速法）》（GB3847-2018）进行定期排放检验。

Before the introduction of methanol-related emission standards, the spark-ignited methanol vehicle is temporarily subjected to periodic emission inspection according to the "Limited emission limit and measurement method for gasoline vehicles (double idle method and simple working condition method)" (GB18285-2018). For vehicles with diesel compression-ignition methanol engines, periodic emission tests may be carried out temporarily according to the "Diesel Vehicle Pollutant Limits and Measurement Methods (Free Acceleration Method and Loading Deceleration Method)" (GB3847-2018).

(十七) 加强甲醇汽车环保达标监管执法。各省级生态环境主管部门应在机动车生产、销售等环节加强监督检查, 严厉打击生产、销售不达标甲醇汽车行为, 加大生产一致性抽查检测频次, 对排放超标的严格依法处罚。各级生态环境主管部门应加大对在用甲醇汽车进行定期和随机抽检力度, 重点抽测甲醇和甲醛排放情况, 并对使用不超过 160000km(或 12 年, 先到为准) 的甲醇汽车进行在用符合性检查, 定期报告相关检测结果。甲醇汽车生产企业应按标准要求, 批量生产前制定一致性保证计划书, 每年至少进行一次在用符合性自查, 采取有效措施确保达标排放。

q) Strengthen the regulation enforcement of environmental protection for methanol vehicles. The competent departments of ecological environment at each provincial level shall strengthen supervision and inspection in the production and sales of motor vehicles, severely crack down on the production and sales of non-standard methanol vehicles, increase the frequency of production consistency checks and inspections, and strictly impose penalties on excessive discharge standards. The competent departments of ecological environment at all levels shall increase the intensity of regular and random sampling of methanol vehicles in use, and focus on the measurement of methanol and formaldehyde emissions, and in-service conformity inspection shall be carried out for methanol vehicles with usage of no more than 160,000 km (or 12 years, whichever comes first), and relevant test results shall be reported regularly. The methanol automobile production enterprises shall, according to the standard requirements, formulate a conformity guarantee plan before mass production, conduct at least one compliance self-inspection every year, and take effective measures to ensure compliance with the standards.

七、完善保障措施

G. Improve safeguard measures

(十八) 工业和信息化部、发展改革委、科技部、公安部、生态环境部、交通运输部、卫生健康委、市场监管总局等部门将加强统筹协调, 形成工作合力, 指导甲醇汽车应用。地方有关部门建立甲醇汽车应用工作机制, 落实责任分工。

r) The Ministry of Industry and Information Technology, the Ministry of Development and Reform, the Ministry of Science and Technology, the Ministry of Public Security, the Ministry of Ecology and Environment, the Ministry of Transportation, the National Sanitation and Health Commission, and the General Administration of Market Supervision will strengthen coordination and work together to form a joint effort to guide the application of methanol vehicle standards. Relevant local departments shall set up working mechanism for managing methanol vehicles and implement a division of responsibilities.

(十九) 有关地区应结合本地实际发展需求, 组织制定具体实施方案, 明确工作思路和目标, 细化支持政策, 明确监管措施。

s) The relevant regions should, in conjunction with local actual development needs, organize and formulate specific implementation plans, clarify work ideas and goals, refine support policies, and clarify regulatory measures.

(二十) 对纳入《道路机动车辆生产企业及产品公告》并符合《机动车运行安全技术条件》(GB7258)等国家机动车安全技术标准的甲醇车辆, 依法办理机动车登记, 燃料种类签注为甲醇, 发放普通机动车号牌。机动车安全技术检验机构依据《机动车安全技术检验项目和方法》(GB21861)等国家标准对甲醇汽车进行安全技术检验。甲醇车辆应获得强制性产品认证并依法完成环保信息公开工作。研究把甲醇汽车纳入《乘用车企业平均燃料消耗量与新能源汽车积分并行管理办法》管理, 支持甲醇汽车发展。

t) The methanol vehicles that are included in the "Road Motor Vehicle Manufacturing Enterprise and Product Announcement" and comply with the National Motor Vehicle Safety Technical Standards such as "Safety Technical Conditions for Motor Vehicle Operation" (GB7258) shall be registered in accordance with the law, and the endorsement of the fuel type shall be methanol, and the ordinary motor vehicle number plate shall be issued. The motor vehicle safety technical inspection agency conducts safety technical inspection on methanol vehicles in accordance with national standards such as "Motorcycle Safety Technical Inspection Projects and Methods" (GB21861). Methanol vehicles should obtain compulsory product certification and complete environmental information disclosure work in accordance with the law. The study will include methanol vehicles in the "Parallel Management Measures for Average Fuel Consumption of Passenger Vehicle Enterprises and New Energy Vehicles" to support the development of methanol vehicles.

(二十一) 依据相关法律法规, 有关地区对甲醇燃料生产、运输及加注, 甲醇汽车生产及运行等进行有效监督管理, 严禁在普通汽油中掺加甲醇销售, 保障甲醇汽车应用安全稳定、健康环保。严禁甲醇汽车改装为其他燃料汽车, 严禁其他燃料汽车改装为甲醇汽车。行业组织应充分发挥作用, 加强行业自律, 为政府管理和行业发展提供服务。

u) In accordance with relevant laws and regulations, the relevant regions shall effectively supervise the production, transportation and filling of methanol fuel, and the production and operation of methanol vehicles. It is strictly forbidden to add methanol to ordinary gasoline to ensure the safety, stability of methanol vehicles. For health and environmental protection, it is strictly forbidden to convert methanol vehicles into other fuel vehicles. Industry organizations should play their full role, strengthen industry self-discipline, and provide services for government management and industry development.

(二十二) 充分发挥行业组织作用, 通过多种形式和渠道, 大力宣传普及甲醇燃料及汽车知识, 增强公众对甲醇燃料安全性、环保性的认识, 形成甲醇汽车可持续发展的良好社会氛围。鼓励科研院所、相关企业积极开展国际间合作。支持甲醇汽车制造企业加快国际化进程, 推动甲醇汽车国际市场应用。

v) Give full play to the role of industry organizations, vigorously promote the popularization of methanol fuel and automobile knowledge through various forms and channels, enhance the public's understanding of the safety and environmental protection benefits of methanol fuel, and form a good social atmosphere for the sustainable development of methanol vehicles. Encourage research institutes and related enterprises to actively carry out international cooperation. Support methanol automobile manufacturing enterprises to accelerate the internationalization process and promote the application of methanol automobiles in the international market.

工业和信息化部

The Ministry of Industry and Information Technology

发展改革委

The National Development and Reform Commission

科技部

The Ministry of Science and Technology

公安部

The Ministry of Public Security

生态环境部

The Ministry of Ecology and Environment

交通运输部

The Ministry of Transportation

卫生健康委

The National Sanitation and Health Commission

市场监管总局

The General Administration of Market Supervision

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