

Catalogue of Encouraged Industries in Western Region (2020 version)

This catalogue is formulated for the purpose of promoting the formation of a new pattern for the development of the western region, and promoting the adjustment of the industrial structure and the development of characteristic and advantageous industries in the western region.

This catalogue consists of two parts, one is the encouraged industries in the existing national industrial catalogue, and the other is the new encouraged industries in the western region.

On the premise of conforming to the market access policy, this catalogue is in principle applicable to all kinds of enterprises producing and operating in the western region, of which foreign-invested enterprises are executed in accordance with the Catalogue of Industries Encouraging Foreign Investment.

I. Encouraged industries in the existing national industrial catalogue

(i) Encouraged industries in the Guidance Catalogue for Industrial Structure Adjustment (2019 Edition) (National Development and Reform Commission Decree No. 29 of 2019).

(ii) Industries in the Catalogue of Industries Encouraging Foreign Investment (2020 Edition) (Decree No. 38 of 2020 of the National Development and Reform Commission and the Ministry of Commerce).

If the above catalogue is revised, it will be implemented according to the new revised version.

II. Newly Encouraged Industries in the Western Region

The new encouraged industries in the western region are classified by provinces, autonomous regions and municipalities directly under the central government, and in principle, they are applicable to domestically-funded enterprises producing and operating in the corresponding provinces, autonomous regions and municipalities directly under the central government, and will be revised at an appropriate time in accordance with the actual situation; such as the industries listed in the national catalogue of relevant industries are explicitly limited.

The encouraged attributes are naturally exempted from the types of industries that are controlled, phased out, or prohibited.

(i) Chongqing Municipality

1. Electric arc furnace short-flow steelmaking (except for the restricted and eliminated projects in the Catalogue for the Guidance of Industrial Structure Adjustment); high-strength steel for construction, metal materials for automobile, electronic information, equipment, rail transportation, aerospace and other industries; cast and forged light alloy materials; magnesium alloy deep-processed products; metal-based powder and surface treatment of new materials; manganese-based and other new materials

(except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

2. Production of new chemical materials (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)

3. Strontium ore (lapis lazuli) and other metal ore deep processing; poisonous boulder, rock salt, fluorite, barite and other non-metallic ore deep processing; high-performance glass fibre and composite materials (except for the projects of restricted and eliminated categories of the Catalogue of

Guidance for the Adjustment of Industrial Structure); the annual production capacity of 10 million tonnes and above mechanism of gravel and sand project.

4. Development and production of new energy-saving, soundproof, fireproof doors and windows and accessories
5. Production of prefabricated assembly building components made of energy-saving and environmentally friendly materials
6. Development and manufacture of nuclear equipment, high-precision nuclear instruments and meters
7. R&D and manufacturing of complete sets of equipment and devices for compressed natural gas (CNG) vehicle refuelling stations (vehicle storage cylinders, compressors, storage tanks, deep dewatering devices, desulphurisation tanks, condenser tubes, oil-water separators, etc.)
8. R&D and manufacturing of mine safety instruments and mine emergency rescue equipment
9. R&D and manufacturing of high voltage power transmission and control equipment
10. Compressors, motors, inverters, magnetrons and other household electrical appliances with Grade 1 energy efficiency

Manufacture of key components of equipment

11. Technology development and equipment manufacturing for precision processing industries such as watch and clock timing and jewellery processing

12. R&D and manufacturing of cultural and tourism equipment and supplies such as VR/AR/MR and other immersive and interactive entertainment facilities and equipment, digital stage lighting, intelligent audio-visual, inland waterway yachts, digital printing, toys, and cultural goods.

13. Automotive vehicles, special purpose vehicles (excluding barn trucks, panel trucks, dump trucks, ordinary vans, ordinary trailers) and parts manufacturing

14. Research, development and manufacture of small and medium-sized agricultural tools such as microploughs, tractors, crop planting and harvesting, agricultural engineering machinery for farmland construction and related parts for hilly and mountainous areas

15. Motorbike and important parts manufacturing

16. R&D and production of key components such as marine gearboxes and marine oil pump nozzles, superchargers, connecting rods, thin-walled axle shafts, injection control units, etc., and the production of anchors with large gripping force with

integrated casting and forging technology.

17. Production of high-grade glassware with iron oxide (Fe O_{23}) content not exceeding 0.02%
18. Development and production of teaching aids and instruments
19. Road, rail passenger and freight transport
20. R&D and manufacturing of complete notebook computers and communication products and key components
21. Triple play type business platform, communication, cable TV network upgrading and equipment manufacturing
22. 5G, Mobile Internet, Internet of Things, Industrial Internet, Big Data, Artificial Intelligence, Blockchain, Green Data Centre Construction and Operation

23. Construction and operation of wind and solar farms

24. Warehousing, freight forwarding, shipping agency, packaging, loading and unloading, handling, distribution processing, consolidation and distribution, distribution, multimodal transport services, supply chain services, and modern logistics projects such as documentation, data and information processing; construction and operation of port logistics facilities; construction and operation of village-level express logistics integrated service stations.

25. Microfinance services for "three rural areas", small and microenterprises, and self-employed businessmen.

affair

26. Outsourcing of services, payment services for non-financial institutions

27. Treatment of urban and rural domestic sewage, black smelling water bodies, domestic waste, livestock and poultry manure

Development and application of technologies related to urban and rural habitat improvement such as management and toilet revolution

28. Operation of medical institutions

29. Arts and skills training (music, performing arts, fine arts, design and traditional crafts)

30. Research, development and application of pollution

treatment and remediation technologies for industrial enterprise sites

31. Comprehensive Utilisation Technology Development and Application of Industrial Waste Heat, Waste Pressure, Differential Pressure and Generating Gas

32. Recycled aluminium, aluminium processing projects
(except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

33. Special ceramics, daily-use ceramics, sanitary ceramics, architectural ceramics, furnishing art ceramics manufacturing
(except for the restricted and eliminated projects of the "Guideline Catalogue for Industrial Structure Adjustment")

34. Lift manufacturing (except for the restricted and eliminated projects of the Guidance Catalogue for Industrial Structure Adjustment)

35. Cosmetics manufacturing (except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

36. ☞ Pharmaceutical R&D, production, sales

37. Development and production of generic drugs that have passed the consistency assessment of quality and efficacy of generic drugs

38. Development and production of new compound drugs or active ingredient drugs, APIs for high value-added preparation products and their key intermediates

39. Drug Screening Platform, Clinical Technology Translation Platform, Safety Evaluation Centre, Pilot Scale-up Platform, Engineering Translation Centre, R&D Customised Platform, Commissioned Manufacturing Platform, Public Testing Centre and other third-party technical service platforms to meet the needs of R&D and production of drug and medical device products.

40. Development of selenium-rich speciality agricultural products

41. Landscaping and wood production

42. Film and television programmes, e-sports, music, online literature, digital content creation and production such as knowledge payment, immersive and interactive scenes, and cultural IP industry; digital media, digital publishing, short videos, live broadcasting, online performances and other information

services, digital marketing, and online cultural and entertainment services.

43. Construction of platforms for Internet production services, living services, science and technology innovation, and public services

44. Tourism development of special geological and cultural villages; sightseeing tours, leisure and holiday, forest recreation, hot spring recreation and other services

45. Development and Application of Environmental Protection Technology for Groundwater Pollution Prevention and Control in Shale Gas Extraction

(ii) Sichuan Province

1. Agricultural product quality and safety testing technology research and development, application and equipment manufacturing

2. Construction and operation of primary processing facilities for the storage, preservation and drying of agricultural products at their place of origin

(except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

3. Development and production of high-efficiency solar cell module technology
4. Nuclear grade graphite development and production
5. Advanced manufacturing technology and application of high quality titanium raw materials ($\text{CaO}+\text{MgO}\leq 1.5\%$);

60,000 tonnes / year and above titanium slag production technology (furnace capacity $\geq 25,000\text{kVA}$); titanium deep processing and product applications; chlorination of titanium dioxide production and supporting chlor-alkali production, high salt wastewater treatment (the "Guide Catalogue for the Adjustment of Industrial Structure," the restriction of the category, except for the elimination of the project)

6. Technological development and application of large-scale efficient and clean separation and extraction of vanadium and titanium magnetite (the recovery rate of vanadium and titanium magnetite mining, the recovery rate of ore dressing and the comprehensive utilisation rate should comply with the relevant

national standards)

7. Tungsten and molybdenum products and tungsten and molybdenum wires
8. 40,000 tonnes/year and above Carbon Black New Process Development and Application
9. Development and application of technology for clean production of vanadium oxide of 3000 tonnes/year and above (zero discharge of wastewater and wastes); development and application of technology for advanced manufacturing of vanadium products (vanadium-based alloys, vanadium-based functional materials, vanadium fine chemicals).
10. Development and production of new carbon materials such as graphene and nanocarbon materials, fine-structured graphite, biochar, lithium battery anode, etc.
11. Ethylene from bioethanol (except food-based)
12. Development and manufacture of high-precision nuclear instruments
13. Compressed natural gas (CNG) vehicle refuelling station equipment and installations (CNG vehicle storage cylinders, compressors, high-pressure underground storage wells, storage tanks, deep dewatering equipment)

(e.g., desulphurisation tanks, condenser tubes, oil-water separators, etc.) manufacturing and application, LNG

(Manufacture and application of complete sets of equipment and devices for (LNG) vehicle refuelling stations

14. Research, development and production of radio test instruments, radio monitoring systems or equipment

15. Production of catalysts for selective catalytic reduction (SCR) denitrification and equipment for SCR denitrification for thermal power generation, cement, iron and steel, etc.

16. Seed production and processing machinery, drying equipment manufacturing

17. Research, development and manufacture of small and medium-sized agricultural tools such as microploughs, tractors, crop planting and harvesting, agricultural engineering machinery for farmland construction and related parts for hilly and mountainous areas

18. Manufacture of automotive vehicles, special purpose vehicles with parts and accessories (except for the projects of restricted and eliminated categories in the Guidance Catalogue for Industrial Structure Adjustment)

19. Development and production of educational technology equipment

20. Highway passenger transport, waterway and railway cargo transport; integrated services such as warehousing, transport, freight forwarding, packaging, loading and unloading, handling, circulation processing, distribution, information processing; construction and operation of village-level express logistics integrated service stations

21. Broadband network construction and operation

22. Development and application of electronic code technology for Chinese medicine traceability

23. Outsourcing of services

24. Microfinance services for "three rural areas", small and microenterprises, and self-employed businessmen.

affair

25. Financial modernisation technology development and application (mobile payment, e-bills, finance)

(IC cards, etc.)

26. Operation of medical institutions

27. Pilot training

28. Industrial energy-saving and consumption reduction technology development and application (waste heat, waste pressure, differential pressure, comprehensive utilisation of generated gas, etc.)

29. Development and manufacture of chemical defence and emergency equipment for reconnaissance, protection and decontamination in the nuclear, chemical and biological fields.

30. Development and application of technologies related to rural habitat improvement, such as rural domestic sewage treatment, domestic rubbish treatment, livestock and poultry manure treatment and toilet revolution; development and application of technologies related to domestic sewage treatment in alpine areas; and promotion and application of new agricultural building technologies, such as light steel assembly and modern rammed-earth technology.

31. Vanadium-titanium magnetite blast furnace-converter smelting process (vanadium-titanium magnetite into the furnace ratio \geq)

60%) (except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

- 32. Electron Beam Irradiation Processing
- 33. Manufacture of dental equipment and instruments
- 34. Manufacture of rehabilitation aids and appliances
- 35. Shale gas equipment manufacturing and oil and gas technology engineering services
- 36. Product development, production and application of energy-saving and environmentally friendly aluminium alloy formwork for construction
- 37. Development, production and application of high-performance rare earth functional materials and devices such as permanent magnets, light-emitting, catalytic, alloys, etc.
- 38. R&D and manufacturing of gas turbines and key auxiliary engines of 40MW and above, R&D and equipment manufacturing of small gas turbines for distributed energy sources
- 39. Intelligent Green Textile and Garment Processing

- 40. R&D and production of silicon optical integrated circuit chips, optical splitters, fibre optic active connectors, optoelectronic transceiver modules, optical network equipment
- 41. Colourful light design and production
- 42. Technology Promotion and Business Incubation Services
- 43. Tea planting and deep processing
- 44. Fruit Wine Manufacturing, Glutinous Red Sorghum Farming
- 45. Timber reserve processing and trading, production and deep processing of bamboo products, production and processing of special economic forest products
- 46. Forest Recreation Base Construction and Services
- 47. Tibetan medicine, Yi medicine research and development, production, sales
- 48. Conservation and sustainable use of animal and plant medicinal resources (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)
- 49. Mobile telecommunication services (5G)
- 50. Surveying, mapping and geographic information services
- 51. Construction and operation of wind and solar farms
- 52. Safety glass, energy-saving glass and other high-end glass deep processing

(iii) Guizhou Province

1. Production of rock drilling tools and steel for drilling tools for high-power hydraulic dollies
2. Superior carbon steel wire (strength $\geq 1670\text{N/mm}^2$) and its products production
3. Manganese deep-processing new product development and production (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)
4. Aluminium and aluminium deep processing ("Industrial Structure Adjustment Guidance Catalogue" restricted category, Amoy)

(except for phase-out projects)

5. Titanium metal smelting new process technology development (directly with high titanium slag, rutile electrolysis production of titanium metal), titanium deep processing and titanium-containing fine chemicals new product development and production

6. Advanced technology and equipment for vanadium deep processing and new product development

7. Development and production of high-performance magnesium alloys

8. "Phosphorus - electricity - chemical" integrated comprehensive utilization of resources, fine phosphorus chemical industry ("Industrial Structure Adjustment Guidance Catalogue" restricted category, except for phase-out projects)

9. Barite deep processing new product development and production

10. Dolomite Fine Processing and Comprehensive Development and Utilisation

11. Adipic acid and nylon 66 production

12. Development of natural plant fine chemicals (flavours, fragrances, chemicals, intermediates for chemical products)

13. Conservation and sustainable use of animal and plant

medicinal resources (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)

14. R&D and manufacturing of high pressure piston hydraulic pumps, hydraulic motors and other hydraulic basic components
15. R&D and manufacturing of hydraulic transmissions
16. Large extraction units (vessel volume 50-3500 L, pressure class 9.8 - 5000 L)

(35Mpa, temperature class 10-85°C) R&D and manufacturing

17. Development and manufacture of lightweight, durable, low-consumption small and medium-sized ploughing, planting and harvesting machinery for mountainous areas

18. Fly ash storage, transportation and use of complete sets of equipment manufacturing
19. Manufacture of complete automobiles, special-purpose vehicles (excluding ordinary trailers, dump trucks, tanks, etc.)

Manufacture of automobile parts and components (including vans, compartments and silo cars)

20. Ethnic crafts processing and production
21. Road transport of passengers, road transport of goods
22. Broadband network construction and operation
23. Microfinance services for "three rural areas", small and microenterprises, and self-employed businessmen.

affair

24. Outsourcing of services
25. Operation of medical and recreational institutions
26. Yi medicine, 回医药 research and development, production, sales
27. Agricultural and forestry products, bamboo products production and deep processing; edible fungi planting and strain cultivation

Breeding, tea, vegetables, prickly pear, Chinese herbs, chillies, fruits, dendrobium, oil tea cultivation and processing; ecological animal husbandry, ecological fisheries

28. High quality free cutting steel
29. R&D and manufacturing of new materials for membranes and automated production of membrane elements
30. Underground coal gasification mining technology

development and application, underground coal gasification power generation equipment manufacturing

31. Coal Mining 110/N00 R&D and Application of Intelligent Equipments Supporting Work Methods

32. R&D and production of basalt fibres and post-products

33. Stone processing and production

34. Construction and operation of wind and solar farms

35. Cross-border trade, international logistics, freight

forwarding, cross-border e-commerce, foreign trade integrated services and other industries; warehousing, transport, freight forwarding, packaging, loading and unloading, handling, distribution processing,

Distribution, information processing and other integrated services;
construction and operation of village-level express logistics
integrated service stations

36. Hydrogen processing and manufacturing, hydrogen fuel cell manufacturing, hydrogen pipeline and hydrogen refuelling station construction
37. Ethnic speciality food production and processing
38. Aromatic plant cultivation, tourism and product processing
39. Industrial energy saving and consumption reduction technology development and application
40. Promotion of protea mulberry and protea chrysanthemum cultivation
41. Agricultural, forestry, fishery and animal husbandry extension services
42. Development and application of technologies related to rural habitat improvement, such as rural sewage treatment, household waste treatment, livestock and poultry manure treatment and toilet revolution, etc.
43. R&D and manufacturing of complete notebook computers and telecommunication products and key components
44. R&D and equipment manufacturing of small and micro gas turbines under 20MW
45. Lift manufacturing (except for the restricted and

eliminated projects of the Guidance Catalogue for Industrial Structure Adjustment)

(iv) Yunnan Province

1. Breeding of flowers, green and ornamental trees
2. Development and manufacture of high-efficiency solar cell module technology
3. Non-ferrous metal product development and deep processing (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)
4. Comprehensive Utilisation of Mineral Resources and Equipment Manufacturing; Efficient Resource Utilisation in Parks

(For details, please refer to the explanatory notes related to the 2019 edition of the Green Industry Guidance Catalogue)

5. Petroleum fine chemical product development and production ("Industrial Structure Adjustment Guidance Catalogue")

(Excluding restricted and phase-out projects)

6. Development and production of new types of fertilisers such as water-soluble fertilisers, micronutrient fertilisers and microbial fertilisers.

7. Ethylene from bioethanol (except food-based)

8. Manufacture of green building materials, promotion of green building material certification

9. Construction and operation of urban water supply network zonal metering leakage control

10. Harmless treatment and disposal of industrial solid waste, comprehensive utilisation and equipment manufacturing

11. Boiler (kiln) energy-saving renovation and energy-efficiency upgrading

12. Special environment (plateau, hot and humid, high cold, heavy pollution and other environments) with power generation and transmission, power supply and distribution and control equipment, plateau-type electrical and electronic products, small and medium-sized hydropower equipment R & D and manufacturing, intelligent large-scale high-efficiency pumps, urban flooding equipment projects

13. Manufacture of advanced and applicable complete sets of pharmaceutical and biological preparation equipment (except

for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

14. Development and manufacture of modern farm equipment such as tractors, ploughs, micro-tillers and rice, corn, potato and sugar cane harvesters for highland mountainous areas

15. Manufacture of complete automobiles, special-purpose vehicles (excluding ordinary trailers, dump trucks, compartments and barn cars)

16. Deep processing of cane sugar and comprehensive utilisation of by-products such as waste molasses, bagasse, cane leaves, filter mud and alcohol waste liquid (except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

17. Ethnic crafts processing and production

18. Road passenger transport

19. Broadband network construction and operation

20. Construction and operation of port logistics facilities (logistics warehouses, storage yards, loading and unloading tools, multimodal transshipment facilities and logistics information platforms, etc.); construction and operation of village-level express logistics integrated service stations.

21. Microfinance services for "three rural areas", small and microenterprises, and self-employed businessmen.

affair

22. Outsourcing of services

23. Operation of medical institutions

24. Forest Recreation Base Construction and Services

25. Rolling steel oxide production of magnetic materials

26. Development and Application of Water Pollution Control Technology for Highland Lakes

27. Industrial energy saving and consumption reduction technology development and application (utilisation of waste heat, pressure and gas)

28. Rural Domestic Sewage Treatment, Domestic Waste Treatment, Livestock and Poultry Manure Treatment and Toilets

Development and application of technology related to rural habitat improvement, including revolution

- 29. Water pollution control equipment manufacturing
- 30. Green aluminium industry (production, deep processing and its application) (except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)
- 31. Green silicon industry (production, further processing and its applications)
- 32. Dendrobium, oil tree cultivation, planting, processing, etc., green organic tea, vegetables, special fruits, high-quality Chinese herbs, coffee and other highland characteristics of agriculture, bamboo products production and deep processing
- 33. High-quality wine grape cultivation and brewing, barley cultivation and food processing

34. Raising and deep processing of pigs, cattle, sheep and small domestic animals (including highland livestock products); aquaculture and processing of Yunnan highland speciality aquatic products

35. Internet, Internet of Things technology services, industrial control computer and system manufacturing, communication system equipment manufacturing

36. Processing of products imported and exported for border trade in border counties and cities (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)

37. Organic waste bioprocessing plant and mobile crushing and screening system

38. Production of natural rubber deep-processing products such as light-coloured standard rubber, radial tyre rubber, constant viscosity rubber, high-grade tyre rubber, de-proteinised rubber series products, large-scale radial tyre production line, special special natural rubber or latex product research and development

39. United Epidemics Industry

40. Nosocomial Preparation Industry in Ethnic Areas

41. Tibetan medicine, Dai medicine, Yi medicine research and

development, production, sales

42. Cultivation of silkworms, various types of silk gelatin protein products, silkworm pupa deep processing products and other comprehensive use of product production; cocoon silk deep processing

43. Development and Utilisation of Lithium Resources and Industry Chain Development in Central Yunnan Province

44. Construction of cross-border e-commerce retail centres and bulk commodity import/export distribution and logistics centres

found

45. Research and development of complete sets of machinery and equipment for integrated walnut production and primary processing and standardised technology

and promotion

46. Ultra HD video industry manufacturing: 4K/8K Ultra HD TV sets, 4K cameras, monitors, etc.

47. Construction and operation of wind and solar farms

(v) Tibet Autonomous Region

1. Production and processing of special agricultural, forestry and livestock products
2. Research on the exploration, exploitation and utilisation of combustible ice in the alpine permafrost zone
3. Solar photovoltaic power generation system testing, construction and operation, wind farm construction and operation
4. Comprehensive development and utilization of salt lake resources (except for the projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)
5. Tibetan speciality food processing, beverage processing (except for the restricted and eliminated projects of the Guidance Catalogue for Industrial Structure Adjustment)
6. Ethnic crafts processing and production
7. Road passenger transport
8. Broadband network construction and operation
9. Construction and operation of port logistics facilities (logistics warehouses, storage yards, loading and unloading tools, multimodal transshipment facilities and logistics information platforms, etc.); construction and operation of village-level

express logistics integrated service stations.

10. Operation of medical institutions

11. Development and application of technologies related to rural habitat improvement, such as rural sewage treatment, household waste treatment, livestock and poultry manure treatment and toilet revolution, etc.

12. Triple play type business platform, communication, cable TV network upgrading and equipment manufacturing

13. R&D, production and sales of Tibetan medicine

14. Microcredit financial services for "three rural areas", small and micro enterprises, and specialised co-operative organisations
15. Development and Application of Traceability Technology for Speciality Products
16. Food and Beverage Packaging Production and Processing
17. Energy efficiency services
18. Natural drinking water (mineral water)
19. Construction and Development of Border Trade Industry (Border Trade Market Construction, Border Trade Enterprise Cultivation)
20. Processing of products imported and exported for border trade in border counties and cities (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)
21. Scientific research and decision-making evaluation services
22. Natural resources and mapping and geographic information technology development and application
23. Development and application of geological disaster investigation, monitoring and management technology
24. Lighting of roads using solar and wind energy
25. Operation of urban roads and bridges and municipal utilities such as water supply, heating, sewage and rubbish

disposal

26. Scientific research on native tree species in Tibet
27. Outsourcing of services
28. Research, development and application of new building materials and assembled building materials
29. New wall materials (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)
30. Stone development (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)
31. Sand plant cultivation and processing

32. Alcohol, beverages and refined tea manufacturing, leather and its products manufacturing and footwear industry, wood processing industry, furniture manufacturing, printing and recording media reproduction industry

33. Electricity, heat, gas and water production and supply industry

34. Residential services, repairs and other services

35. Wholesale of agricultural, forestry, animal husbandry and fishery products, wholesale of food, beverages and tobacco products, wholesale of textiles, clothing and household goods, wholesale of cultural and sporting goods and equipment, wholesale of pharmaceuticals and medical equipment, wholesale of minerals, building materials and chemical products; general retailing, specialised retailing of food, beverages and tobacco products, specialised retailing of textiles, clothing and household goods, specialised retailing of cultural and sporting goods and equipment, and specialised retailing of pharmaceuticals and medical equipment Specialised retailing of pharmaceutical and medical equipment

36. Educational services such as primary education, secondary education, tertiary education, skills training, educational support, etc.

37. Broadcasting and television integration and control, sound recording production, literary and artistic creation and performance, heritage conservation, performing arts venues, libraries and archives, museums, martyrs' cemeteries, memorial halls, mass cultural and sports activities, and other cultural and artistic service industries

38. Sports services such as sports organisation, management of sports venues and facilities, fitness and leisure activities, etc.

deed

39. Accommodation and catering

40. Design, production and sale of ethnic performing arts costumes and musical instruments

41. Housing, civil engineering construction, building installation, building decoration, renovation and

Other construction

(vi) Shaanxi Province

1. Comprehensive Utilisation of Multi-Element Co-Occurring Mineral Resources

2. High-performance magnesium alloy development and production, titanium deep processing

3. In-situ deep processing of organic chemical raw materials produced by large-scale oil refining, ethylene and aromatics production units (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment), technological development and production of new and environmentally friendly oilfield chemicals (carbon dioxide and new types of reagents for oil and gas repulsion), and the production of fine chemicals such as homopolymer aldehyde, 60,000 tonnes/year and above of dimethylformamide, and 60,000 tonnes/year and above of polyvinyl alcohol.

4. Biological and chemical production of biodegradable materials, including polylactic acid, propylene lactide-based biodegradable materials, polybutylene succinate, polyhydroxyalkanoic acid, etc., as well as environmentally friendly materials made from blending biodegradable polymer materials with starch, new charcoal adsorbent materials, biochemicals, etc.

5. One-million-ton large ethylene, one-million-ton large aromatics, ten-million-ton large refinery and other major coal

chemical, petrochemical, power station equipment with key pumps, control valves, control valve R & D and manufacturing

6. Manufacture of boilers such as high-efficiency micro-emission coal-fired boilers, high-efficiency coal-slurry composite circulating fluidised bed industrial steam/hot water boilers, flue gas waste heat boilers, and fully-automated gas (oil) hot water/steam boilers (better than national standards)

7. Micro-consumption heating and air-conditioning systems that exceed Class 1 energy efficiency

8. Automobile vehicle R&D and manufacturing, special-purpose vehicles (excluding ordinary trailers, dump trucks, tank trucks, vans and warehouse trucks) R&D and manufacturing, automotive parts R&D and manufacturing

9. R&D and manufacturing of micro-tillers, tractors, small and medium-sized agricultural implements for crop planting and harvesting in hilly and mountainous areas, agricultural engineering machinery for farmland construction, and related parts and components.

make

10. Development and production of teaching aids and instruments and cultural and health products
11. Broadband network construction and operation
12. 5G, Artificial Intelligence, Internet of Things, Industrial Internet Construction
13. Warehousing, transport, freight forwarding, packaging, loading and unloading, handling, distribution processing, distribution,

Information processing and other services; construction and operation of village-level express logistics integrated service stations

14. Operation of medical institutions
15. Arts and skills training (music, performing arts, art and design, costume design and traditional crafts)
16. Geological disaster investigation, monitoring, management technology development and equipment manufacturing
17. Construction and operation of unconventional water treatment, utilisation and distribution projects such as recycled water, rainwater, mine drainage water, etc., R&D, manufacturing and promotion of water-saving products, recycling of water resources and water conservation
18. Facility agriculture such as greenhouse cultivation,

planting, production and processing of regional specialties such as apples, tea, small grains, konjac, edible fungi, dairy goat farming and goat milk deep-processing and manufacturing, production and deep processing of forest products.

19. Microfinance services for "three rural areas", small and microenterprises, and self-employed businessmen.

affair

20. Outsourcing of services
21. Construction of warehousing facilities related to the logistics industry and trade services, agricultural product logistics industry
22. Beidou satellite navigation and space information industry, remote sensing, communications, navigation and other satellites

Application services, development and production of specialised equipment for radar, communications and navigation

23. Development and manufacture of chemical defence and emergency equipment for reconnaissance, protection and decontamination in the nuclear, chemical and biological fields.

24. R&D and manufacturing of mine safety instruments and mine emergency rescue equipment

25. Composite material processing equipment

26. Onshore wind turbine equipment manufacturing

27. Production of highly dosed fly ash building materials products: 70 per cent or more of fly ash is dosed for the production of sintered bricks, 85 per cent or more for the production of ceramic products, 25 per cent or more for the production of concrete, and 30 per cent or more for the production of other building materials products (except cement).

28. Industrial energy saving and consumption reduction technology development and application (waste heat, waste pressure, differential pressure, gas generation, etc.)

29. Construction and operation of energy reserve facilities and systems for oil, natural gas, electricity, etc., construction and operation of natural gas peaking plants and emergency gas storage and peaking facilities

30. Manufacture and deep processing of new chemical materials and high-end speciality chemicals

31. Wind power, photovoltaic, hydrogen energy, geothermal energy and other new energy and related device manufacturing industry; solar photovoltaic power generation system testing, construction and operation; wind farm construction and operation; geothermal energy exploration, development and use; geothermal energy, hydrogen energy and other new energy industry operation services

32. Construction and production of 3 million tonnes/year and above (coking coal 1.5 million tonnes/year and above) safe and efficient coal mines (including mines and open pits), and development and utilisation of safe, high-yield and high-efficiency coal mining technologies.

33. Separation and utilisation of coal to produce olefins, aromatics and combined olefins and aromatics.

34. Third-generation compound semiconductor, high-power semiconductor laser chip R & D and production

Production, compound semiconductor epitaxial growth and chip production

35. R&D and manufacturing of asbestos-free fibre-reinforced calcium silicate panels (lightweight wall panels, pre-painted decorative panels, exterior moisturising one-piece panels, etc.) system products

36. Research and development of environmental pollution remediation technology and equipment manufacturing for land space, development and application of mining geological environment treatment technology

37. Development and production of electronic materials such as semiconductor materials and new photovoltaic materials, design and manufacture of high-power metal-oxide-semiconductor field-effect transistors (MOSFET) and insulated-gate bipolar transistors (IGBT), and research and development and manufacture of low-temperature co-fired ceramic (LTCC) filters, multi-chip modules (MCMs), thick-film power supplies for communications and piezoelectric actuators.

38. Mechanical transmissions for automobiles, electronically controlled mechanical automatic transmissions (AMT), new energy transmissions, powershift transmissions, hydro-mechanical continuously variable transmissions (CVT), etc., disc

brakes, clutches, synchronizers, power take-offs, gears, forgings, castings, and other automotive parts, RV speed reducers, commercial vehicle anti-lock braking systems (ABS), tire temperature and pressure monitoring systems (TPMS), drive Anti-Skid Rotation (ASR), electronic braking system

(Manufacturing of automotive electronics such as EBS, ADAS, etc.

39. Treatment and disposal of sewage sludge and its purified utilisation activities, solid waste management, hazardous waste management, rural sewage management, domestic waste management, livestock and poultry manure treatment and toilet revolution, and other rural habitat improvement related technology development and application

40. Development and application of land remediation, restoration and assessment technologies for agricultural land, ecological land, contaminated land, abandoned industrial and mining land, etc.

41. Shintronics (localised) hardware and software development, adaptation and application
42. Commercial spaceflight and related support
43. Development of new-generation space launch vehicle engines, construction of measurement, transport and control systems, etc., space vehicle payloads and electronic systems and equipment
44. Development and production of composite materials and laser protection materials
45. Semiconductors, integrated circuits, connectors, sensors, artificial intelligence processors, new electronic components, high-end chip development and production
46. Development of new energy equipment such as coalbed methane gas power station and box-type mobile power station
47. Manufacture of robots and key components, industrial robots, industrial robots precision harmonic reducer, electric servo system, permanent magnet AC servo motors, high-precision direct-drive torque motors, brushless resolver and other intelligent equipment development
48. Nuclear radiation processing, nuclear irradiation industry, radioisotope production and R&D, R&D and production of

lightweight radiation shielding materials, nuclear-grade zirconium, etc.

49. New energy materials, titanium/zirconium/nickel/magnesium/lithium and other special alloy materials, special non-metallic materials, special rubber materials, high silica glass fibre, high-temperature alloys, 3D printing materials, superconducting materials, special ceramics, graphene, wave-absorbing materials, energy-containing materials, and other new materials research and development.

(vii) Gansu Province

1. Quality wine grape growing and vinification
2. Solar power system construction and operation
3. Wind farm construction and operation
4. The use of natural gas as a substitute for heavy oil used in the deep processing of chemical and non-ferrous materials,

Diesel and coal technology development and application (except for projects restricted and prohibited by the natural gas industrial policy)

5. Development and production of high-temperature gas-cooled reactor carbon in-heap components and nuclear-related carbon-graphite materials
6. Development and production of charcoal materials for energy-saving and environmentally friendly large-scale mineral heaters
7. Development and production of high-performance magnesium and titanium alloys
8. Development and production of nickel-copper-cobalt and precious metal powder materials
9. Development and production of nickel-cobalt secondary battery materials
10. Carbonyl metallurgy technology and nickel carbonyl development and production
11. Production of electronic-grade hydrogen fluoride (HF) (except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)
12. Application of asbestos wet flotation modification process (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)

13. Development and production of new carbon materials such as graphene and nanocarbon materials, fine-structured graphite, biochar, lithium battery anode, etc.

14. Production of highly doped fly ash building materials products: 70 per cent or more of fly ash is doped to produce sintered bricks, 85 per cent or more is doped to produce ceramic products, 25 per cent or more is doped to produce concrete, and 30 per cent or more is doped to produce other building materials products (except cement) (except for the projects of restricted and eliminated categories of the Guidance Catalogue for the Adjustment of Industrial Structure).

15. Construction and production of 3 million tonnes/year and above (coking coal 1.5 million tonnes/year and above) safe and efficient coal mines (including mines and open pits), and development and utilisation of safe, high-yield and high-efficiency coal mining technologies.

16. Seed production and processing machinery, drying equipment manufacturing

17. High-performance Vacuum Equipment Manufacturing: Vacuum Acquisition, Vacuum Material Surface Modification, Vacuum Furnace, Low Temperature Storage and Transportation Vessel, Vacuum Special Purpose Equipment

18. R&D and manufacturing of heavy ion cancer treatment equipment

19. Waste heat and waste energy use of boilers, biomass boilers, waste incineration treatment boilers and high-parameter, large-capacity energy-efficient boilers (kilns) manufacturing

20. R&D and manufacturing of complete sets of green coating equipment: vacuum ion coating, magnetron sputtering coating, vapour coating, ion implantation, ion cleaning equipment, etc.

21. Manufacture of high-efficiency motors and their control systems (low-voltage three-phase asynchronous motors with a rated power of 0.55-355kW and a rated voltage of 690V or less; high-voltage three-phase asynchronous motors with a rated power of 355-25,000kW and a rated voltage of 6kV or 10kV; and high-efficiency permanent-magnet servo motors)

22. Manufacture of power saving equipment for power grid systems (10%-% reduction in no-load losses compared to similar products)

(20 per cent, load loss reduced by 5 per cent)

23. Development and Application of Low Temperature Combined Drying Technology for Vegetables with Multiple Heat Sources of Solar Energy
24. Road passenger transport
25. Broadband network construction and operation
26. Microfinance services for "three rural areas", small and microenterprises, and self-employed businessmen.

affair

27. Outsourcing of services
28. Operation of medical institutions
29. Sports competitions and performances, stadiums (except for golf courses and racecourses).

Construction and operation of facilities, mass sports, fitness and leisure services

- 30. R&D and Application of Digital and Networked Display Platform for Cultural Resources
- 31. Fly ash production of new oilfield cementing mitigants
- 32. Technology development and application of blast furnace detoxification of chromium leaching residues
- 33. Research and development, production and sales of Tibetan medicine, deep processing of natural medicine, raw material medicine and proprietary Chinese medicine (except for the projects of restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)
- 34. Production and deep processing of forest products
- 35. Development and application of technologies related to rural habitat improvement, such as rural sewage treatment, household waste treatment, livestock and poultry manure treatment and toilet revolution, etc.
- 36. Construction and operation of village-level express logistics integrated service stations
- 37. Integrated Desert Disaster Management
- 38. Coke Oven and Coke Oven Gas Recycling Project with a Single Coke Oven of 1 Million Tonnes/Year and Above
- 39. Construction of recycling system for scrap steel, scrap copper, scrap aluminium and rare metals (except for projects in

the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

40. Construction and operation of energy reserve facilities and systems for oil, gas, electricity, etc.
41. Super-large-scale mechanism sand and gravel production with an annual capacity of 10 million tonnes or more
42. Organic peroxide production (except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

(viii) Qinghai Province

1. Sand plant cultivation and processing
2. Solar power system construction and operation
3. Wind farm construction and operation
4. Synthesis of salt lake resources including potassium, sodium, magnesium, lithium, boron, strontium, bromine, iodine, rubidium and caesium

Combined use, series product development and by-product use
(except for projects in the restricted and eliminated categories of
the Catalogue for the Guidance of Industrial Structure Adjustment)

5. Dilute hydrochloric acid precipitation to hydrogen chloride
6. Magnesium chloride hexahydrate ($\text{MgCl}_2 \cdot 6\text{H}_2\text{O}$) continuous dehydration of anhydrous magnesium chloride
7. Development and production of high-performance magnesium alloys
8. Asbestos wet flotation modification process application
9. Recycling of solid waste and by-products generated during the production of various inorganic salt products.
10. Exploration, research and development of deep underground pressurised brine resources
11. Road safety maintenance, maintenance equipment development and manufacturing
12. Manufacture of complete automobiles, special-purpose vehicles (excluding ordinary trailers, dump trucks, tank trucks, vans and silo trucks)
13. Ethnic crafts processing and production
14. Road transport of passengers, road transport of goods
15. Broadband network construction and operation
16. Operation of medical institutions

17. Industrial waste heat power generation technology application modification

18. Development and application of technologies related to rural habitat improvement, such as rural sewage treatment, household waste treatment, livestock and poultry manure treatment and toilet revolution, etc.

19. Microfinance services for "three rural areas", small and microenterprises, and self-employed businessmen.

affair

20. Construction and operation of village-level express logistics integrated service stations

21. Operation of AAA and above tourist attractions, star-rated hotels and travel agencies
22. Forest and grass speciality plantation industry, speciality breeding industry, forest economy industry, production and deep processing of forest products
23. Tibetan medicine, Mongolian medicine research and development, production, sales
24. Manufacture of photovoltaic equipment and components
25. Construction of charging stations and piles for new energy vehicles
26. Construction and operation of energy reserve facilities and systems for oil, gas, electricity, etc.
27. Materials for high-end and large-scale integrated circuits, electronic special gases and electronic chemicals
28. Outsourcing of services
29. Mobile Internet, Internet of Things, Industrial Internet, Artificial Intelligence, Blockchain Construction and Operation
30. Electronic information manufacturing
31. Manufacture of small household appliances and consumer electronics
32. Production and processing of speciality foods such as wolfberry, sea buckthorn, rhodiola rosea, barley, quinoa, dairy

products, etc.

(ix) Ningxia Hui Autonomous Region

1. Production and deep processing of local speciality and advantageous agricultural and forestry products (including wolfberries, high-quality and high-end dairy products, high-quality meat, beef and sheep, selenium melon, vegetables for Hong Kong and other speciality fruits and vegetables, and high-quality grains, such as rice, wheat, maize, potatoes, etc.)

2. Construction and production of 3 million tonnes/year and above (coking coal 1.5 million tonnes/year and above) safe and high-efficiency coal mines (including mines and open pits); development and use of safe, high-yield and high-efficiency coal mining technology, and research on and application of new technology and equipment for prevention and control of coalfires.

3. Solar power system construction and operation
4. Wind farm construction and operation
5. Development and production of new silicon and manganese ferroalloys (high purity ferrosilicon, low titanium micro-aluminium ferrosilicon, high silicon micro-carbon manganese, high silicon manganese, silicon ferrosilicon nitride, silicon calcium alloy, silicon barium aluminium alloy, etc.), development and production of low selenium manganese tablets, dehydrogenated manganese tablets, nitrided manganese, low-sulphur manganese tablets, and low manganese oxide manganese tablets (except for the projects of the restricted category and the eliminated category of the "Catalogue of Guidance for the Adjustment of Industrial Structure")
6. In line with the national important use of steel wire rope standards (GB8918-2006), the diameter in the Development and production of 20-60mm wire rope products
7. Tantalum, niobium, beryllium, titanium and other rare metal materials, new products, new process technology development and production
8. Development and production of nickel powder for multilayer ceramic capacitors
9. Development and production of high-performance

magnesium alloys

10. 200,000 tonnes/year and above of vinyl acetate, 60,000 tonnes/year and above of polyvinyl alcohol, 100,000 tonnes/year and above of polycarbonate (PC), 60,000 tonnes/year and above of ethylene oxide, 60,000 tonnes/year and above of polyformaldehyde, double-pressure nitric acid production process, production of electronic-grade high-purity chemicals, a single set of 50,000 tonnes/year and above of lime nitrogen using rotary kiln, use of submerged feeding low-temperature recycling and separation of 10,000 tonnes/year and above of monocyanamide, 20,000 tonnes/year and above of dicyandiamide production (except for projects restricted and eliminated under the Catalogue of Guidance for Industrial Restructuring). Structural Adjustment Guidance Catalogue" restricted and eliminated projects are excluded).

11. Production of high dosage of fly ash building materials products: 70% or more dosage of fly ash to produce sintered bricks, 85% or more dosage to produce ceramic products, 25% or more dosage to produce coagulation products.

Soil, 30% or more blending to produce other building materials products (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)

12. R&D and manufacturing of high-end intelligent control valves and intelligent positioners for large-scale coal chemical industry, petrochemical industry, thermal power and nuclear power plant, oil and gas storage and transportation, ocean engineering and other fields, such as high pressure resistance, high and low temperature resistance, low noise, etc.

13. Railway traction, braking, signalling, power supply, load and other key components, including power electronic traction transformers, reactors, alloy sleeper beams, brake discs, electrified railway ground substation traction transformers, on-board traction transformers and other R & D and production

14. Manufacture of automobile vehicles (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)

15. Coal gasification and tail gas comprehensive utilisation, liquefaction synthesis and other clean coal technology development and equipment manufacturing

16. food processing

17. Ethnic crafts processing and production
 18. Road passenger transport
 19. Broadband network construction and operation
 20. Production of aluminium nitride powder, aluminium nitride ceramic substrates, silicon nitride and silicon nitride ceramic products
 21. Operation of medical institutions
 22. Energy-saving and Emission Reduction Technological Transformation of Mineral Heat Furnace and Recycling of Waste Heat Power Generation
 23. Microfinance services for "three rural areas", small and microenterprises, and self-employed businessmen.
- affair

24. Outsourcing of services
25. Development and application of technologies related to rural habitat improvement, such as rural sewage treatment, household waste treatment, livestock and poultry manure treatment and toilet revolution, etc.
26. Construction and operation of village-level express logistics integrated service stations
27. Construction and operation of energy reserve facilities and systems for oil, gas, electricity, etc.
28. Product development and production of high performance aluminium alloys
29. Development and production of bio-fermented, chemically synthesised amino acids and related derivatives
30. R&D and production of modular, IoT, systematic and intelligent power meters, water meters, gas meters and heat meters
31. With rolling stock bearings, rail transit bearings, high-speed rail bearings and other precision bearings production supporting special CNC machining machine tools, forging rolling ring complete sets of equipment, bearings / gear moulding quenching equipment, for precision parts of the surface cleaning, burr cleaning and blow-drying through the type of cleaning machine research and development and production

32. R&D and production of plateau-type intelligent low-voltage and medium-voltage distribution network switchgear, prefabricated box-type substations/compact box-type substations, high-voltage vacuum circuit breakers and plateau-type high-voltage vacuum circuit breakers, low-voltage miniature circuit breakers

33. R&D and production of solar thermal rotary drive reducer, photovoltaic tracking system reducer, yaw and pitch reducer for wind energy

34. R&D and production of IGBT inverter power supply welding machines and plasma cutting machines

35. Thousands of tons of integrated mining equipment supporting the coal mining machine, scraper conveyor, belt conveyor, explosion-proof motor R & D and production; and integrated mining equipment supporting the casting, welding the central groove, chain ring, reducer, rollers; coal mine machinery remanufacturing ("Industrial Structure Adjustment Guidance Item")

(except for projects in the restricted and phased-out categories of the Record)

36. Breeding equipment: including full-mixed automated ration feed preparation, mixing, silage pick-up, spreading and other complete sets of equipment; feed bunker bedding spreading, sand spreading, manure cleaning equipment; intelligent and precise batching system equipment; intelligent complete sets of feed mixing equipment; rice, wheat, corn and other major crops, such as precision sowing machinery R & D and production

37. R&D and production of machine-room-less passenger lifts and freight, medical and sightseeing lifts, escalators and moving walkways.

38. Quality wine grape growing and vinification

39. Development and production of charcoal materials for energy-saving and environmentally friendly large-scale mineral heaters

(x) Xinjiang Uygur Autonomous Region (including Xinjiang Production and Construction Corps)

1. Wine and beverage production (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)

2. Development and application of technology for mining huge thick coal seams with single seam thickness of 50 metres and above
3. Construction and operation of wind and photovoltaic farms, manufacturing of solar power generation systems
4. Construction and production of 3 million tonnes/year and above (coking coal 1.5 million tonnes/year and above) safe and efficient coal mines (including mines and open pits), and development and utilisation of safe, high-yield and high-efficiency coal mining technologies.
5. Iron, manganese, copper, nickel, lead, zinc, tungsten (tin), antimony, rare metal exploration, orderly mining, deep processing, processing new technology development and application, scrap iron, scrap steel, scrap copper, scrap aluminium, and rare metal recycling resources recycling system construction and operation (except for the projects of restricted and eliminated categories of the Catalogue of Guidance for the Adjustment of Industrial Structure)
6. Organic chemical raw materials produced by large-scale oil refining, ethylene and aromatics production units are in situ.

Deep processing (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)

7. Wind turbine control system, new generators for wind turbines, high-speed blades, full-power converters, pitch controllers, incremental gearboxes, main shafts, bearings and other key components, R&D and manufacturing of offshore wind turbine construction machinery

8. Manufacture of general-purpose basic parts such as bearings and gears

9. Manufacture of metal cutting and welding equipment

10. Manufacture of building material machinery and key components

11. Plastic sheet, tube and profile manufacturing

12. R&D and manufacturing of high-voltage power transmission and control equipment, manufacturing of wires, cables, fibre optic cables, electrical equipment, manufacturing of capacitors and their ancillary equipment, manufacturing of household electrical appliances, assembly, processing and sales of electronic products and their parts and components

13. Development of vanadium and titanium magnetite, production of combined metallurgical process,

comprehensive utilisation and deep processing

14. R&D and manufacturing of equipment for dry air energy applications
15. Specialised services for basic processes such as casting, forging, heat treatment, surface treatment, etc.

(except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

16. Technology development and application of mechanisation of wheat, maize, cotton, barley, beans, tomatoes, chillies, sugar beet, dates, hops and other agricultural and forestry crops cultivation and deep processing and harvesting

17. Development and production of dairy products
18. Production of convenience foods, health foods, spices and bio-fermented products
19. R&D and manufacturing of specialised equipment for cotton stalk harvesting
20. Water-saving equipment, seed processing, fertilisers, high-efficiency and low-toxicity pesticides, agricultural and animal husbandry machinery plus

Manufacture of agricultural materials such as work assemblies and agricultural chemicals

21. Automotive vehicle manufacturing, special-purpose vehicle manufacturing, automotive key components production

(except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

22. Sugar production line with a daily processing capacity of 3000 tonnes of sugar beet and above; deep processing of beet sugar and comprehensive utilisation of waste molasses, beet residue and other by-products (except for the projects in the restricted and eliminated categories of the Guidance Catalogue for the Adjustment of Industrial Structure)

23. R&D, design and manufacture of arts and crafts products with local characteristics

24. Manufacture and sale of performing arts equipment and musical instruments

25. Road passenger transport, road and rail freight transport and multimodal transport

26. Broadband network construction and operation

27. Construction and operation of port logistics facilities (logistics warehouses, storage yards, loading and unloading tools, multimodal transshipment facilities and logistics information

platforms, etc.); services such as warehousing, freight forwarding, packaging, loading and unloading, handling, distribution processing, distribution, and information processing; and construction and operation of village-level express logistics integrated service stations.

28. Microfinance services for "three rural areas", small and microenterprises, and self-employed businessmen.

affair

29. Outsourcing of services
30. Operation of medical institutions
31. Arts and skills training (folk music, performing arts, fine arts, design and traditional crafts)

(process)

32. Comprehensive Utilisation of Agricultural and Forestry By-Products Resources such as Grain, Cotton Straw, Fruit and Wood Technology Development and Application

33. Development and application of technologies related to the improvement of the rural human environment, such as sewage treatment, rubbish treatment, livestock and poultry manure treatment and toilet revolution in cities, towns and rural areas (including corps and companies).

34. Flower and sand plant cultivation and processing, production and deep processing of forest products

35. R&D, production and sales of Vitamins and Mongolian medicines, production of medical and healthcare products

36. Demonstration and Application of Water-saving Fishery Farming and Eco-farming Model for Integrated Utilisation of Fisheries and Agriculture in Saline Land

37. Cold-water fish culture development and application

38. Construction and operation of energy storage facilities and systems for oil, natural gas, electricity, etc., and the development and production of energy storage battery materials, energy storage batteries, energy storage power systems and their key components and equipment

39. 5G Mobile Internet, Internet of Things, Industrial Internet, Big Data, Cloud Computing, Artificial Intelligence, Blockchain construction and operation; network technology; construction and operation of platforms for Internet production services, life

services, scientific and technological innovation, and public services.

40. Research, development and application of urban intelligent municipal informatisation technology and intelligent community (district) informatisation technology

41. Textile and garment industry, design and production of wigs, woven, knitted, garments, home textiles, towels, gloves, socks, shoes, handmade carpets, machine-woven carpets, and embroidery products that can lead to mass employment (except for projects in the restricted and eliminated categories of the Catalogue of Guidance for Industrial Structure Adjustment)

42. Whiteboard, containerboard and corrugated paper production lines with an annual production scale of 80,000 tonnes or more and a width of 3.2 metres or more.

43. Development and application of energy-saving and efficient melamine production technology and its downstream products
44. R&D and application of technology for synthesis of acetic acid by carbonyl method at 300,000 tonnes/year and above and its downstream products
45. Dimethyl Carbonate (DMC) Development and Production
46. Production of biodegradable polymers of polybutylene terephthalate (PBAT) and their R&D and application in biodegradable plastic products and agricultural land film
47. Production of new environmentally friendly building materials, waste sintered new walls, components and building materials for roads
48. 10,000 tonnes/year and above of methyl mercaptan sulphide production of dimethyl disulphide and its further processing industry
49. Research and development, construction and promotion of the application of information technology products such as industrial design software, basic database, resource information base, results display library and rapid mould and plate printing centre, engineering laboratory service platform, etc.
50. Demonstration and application of technological

upgrading of the coal-to-ethylene glycol industry, such as coal-to-formaldehyde, coal-to-olefin via methanol, syngas-to-oxalate, hydrogenation of oxalate, and one-step ethylene glycol production by syngas (except for projects of the restricted and eliminated categories of the Guiding Catalogue for Industrial Structure Adjustment)

51. Construction and operation of primary processing facilities for the storage, preservation and drying of agricultural and forestry products at their place of origin

(except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

52. Livestock and poultry product development and deep processing

53. Research, development and application of agricultural drip irrigation tape and film recycling technology

54. High-purity aluminium production and its deep processing, aluminium-based structural materials, deformation materials (high-performance alloys, aerospace alloys, profiles and accessories, etc.), aluminium-based electronic and electrical functions

Materials (electronic aluminium foil, electrode foil, LED sapphire powder, semiconductor, LCD panel, chip materials, photovoltaic conductive silver powder, etc.) R & D and production, recycled aluminium and aluminium solid waste recycling and processing (except for the projects of restricted and eliminated categories of the Catalogue of Guidance for the Adjustment of Industrial Structure)

55. Modern Horse Culture Industry

56. Processing of products imported and exported for border trade in border counties and cities (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)

(xi) Inner Mongolia Autonomous Region

1. Cultivation and processing of sand plants, production and deep processing of forest products

2. Manufacture of veterinary drugs, development and production of microbial additives for feeding (except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

3. Research and development, production and sales of Mongolian medicine

4. Organic-inorganic compound fertiliser production, organic

fertiliser production

5. Solar power system construction and operation

6. Wind farm construction and operation

7. High-performance rare earth permanent magnet, catalysis, polishing, alloy, hydrogen storage, luminescence and other rare earth functional materials, device development and production, rare earth steel development and application; high-purity rare earth compounds, high-purity rare earth metals, rare earth additives development and production

8. Research and development and application of germanium, uranium and other new materials: manufacture of fuel assemblies for heavy water reactors, pressurised water reactors and gas-cooled reactors for civil nuclear power generation, development and utilisation of thorium resources, production of high-purity germanium and optical fibre communications

9. 60,000 tonnes/year and above of paraformaldehyde, 60,000 tonnes/year and above of dimethylformamide, 60,000 tonnes/year and above of dimethylformamide.

10,000 tonnes/year and above of polyvinyl alcohol and other fine chemicals production

10. 150,000 tonnes/year and above single set of anhydrous coal tar deep processing

11. Construction and production of 3 million tonnes/year and above (coking coal 1.5 million tonnes/year and above) safe and efficient coal mines (including mines and open pits), and development and utilisation of safe, high-yield and high-efficiency coal mining technologies.

12. Development and application of mercury-free catalyst technology for polyvinyl chloride production

13. Production of fine fluorine chemical products such as hexafluoroethane (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)

14. Development and production of new carbon materials such as graphene and nanocarbon materials, fine-structured graphite, biochar, lithium battery anode, etc.; new materials industries such as advanced polymer materials, new graphite materials, high-end metal materials, high-performance fibres and composites (production, deep processing and their applications)

15. Coal-based kaolin replaces high alumina bauxite series

of refractory products and other non-metallic refractory materials and products production

16. Large-calibre high-pressure thick-walled boiler tube production

17. R&D and manufacture of rare earth permanent magnet MRI imaging equipment with magnetic induction strength of 0.3T and above

18. Manufacture of small wind turbines for household use in pastoral areas

19. Manufacture of complete automobiles, special-purpose vehicles (excluding ordinary trailers, dump trucks, compartments and barn cars)

20. Manufacture of off-road mining dump trucks of 90 tonnes and above (except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

21. Plush cotton textile processing
22. Ethnic crafts processing and production
23. Road passenger transport, road and rail freight transport and multimodal transport
24. Broadband network construction and operation
25. Imported wood processing
26. Construction and operation of port logistics facilities (logistics warehouses, storage yards, loading and unloading tools, multimodal transshipment facilities and logistics information platforms, etc.); construction and operation of village-level express logistics integrated service stations.
27. Microfinance services for "three rural areas", small and microenterprises, and self-employed businessmen.

affair

28. Outsourcing of services
29. Operation of medical institutions
30. Pilot training
31. Rural Domestic Sewage Treatment, Domestic Waste Treatment, Livestock and Poultry Manure Treatment and Toilets

Development and application of technologies related to rural habitat improvement, including revolution

- 32. Inheritance Innovation and Development Application of Traditional Mongolian Yurt, Mongolian Clothing and Costume
- 33. Newly built 1.2 million tonnes/year and above natural alkali comprehensive development and utilisation projects
- 34. Construction and operation of energy reserve facilities and systems for oil, natural gas, electricity, etc., and development and application of electric energy storage technology
- 35. 5G network construction and operation, 5G technology development and application
- 36. Artificial Intelligence Technology Development and Application
- 37. Processing of imported and exported products for border trade in border counties and cities (Industrial Structure Adjustment)

(Excluding projects in the restricted and phased-out categories of the "Overall Guidance Catalogue")

38. Electronic information manufacturing industry (except new display), software and information service industry

39. Aluminium post-processing industry chain supporting projects (except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

40. Modern Horse Culture Industry

41. Hydrogen processing and manufacturing, hydrogen fuel cell manufacturing, hydrogen pipeline and hydrogen refuelling station construction

(xii) Guangxi Zhuang Autonomous Region

1. Development and application of new technology for quality and safety testing of agricultural products

2. Development and deep processing of high-performance new materials such as copper, aluminium, tungsten, magnesium, tin, indium, zinc, lead, antimony, rare earths and other high-performance materials (except for projects in the restricted and eliminated categories of the Guidance Catalogue for the Adjustment of Industrial Structure)

3. Comprehensive Utilisation of Low-grade Difficult-to-process

Bauxite Ore

4. Ethylene from bioethanol (except food-based)
5. Fine chemical product development and production (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)
6. Development and production of advanced production technology for the production of high-purity manganese sulphate, manganese carbonate, manganese tetraoxide, lithium manganate and electrolytic manganese metal as raw material for electrical components, non-mercury alkaline-manganese batteries, lithium-manganese batteries and stainless steel products
7. Compressed natural gas (CNG) vehicle refuelling station complete sets of equipment and devices (CNG vehicle storage cylinders, long tube glass fibre-wound cylinders, compressors, high-pressure underground storage wells, storage tanks, deep dehydration devices, desulphurisation tanks, condenser tubes, oil-water separators, etc.) manufacturing, liquefied natural gas (LNG) refuelling station complete sets of equipment (including LNG storage tanks) and device manufacturing

8. R&D and manufacturing of small and medium-sized agricultural machinery such as sugarcane planters, harvesters, leaf strippers, etc.

9. industrial vehicles such as excavators of 1.8 tonnes and above, loaders of 1.6 tonnes and above, 45-tonne frontal cranes, electric forklifts and internal combustion forklifts of 3 tonnes and above, tractor-trailers, etc., construction machinery products with the application of AI technology, 5G technology, unmanned driver technology or new energy technology, hydraulic rollers, hydraulic pavers, motor graders, manufacturing of mining machinery (complete sets of equipment for grinding mills and powder selectors), and mobile crushing and screening equipment. Slewing reducer assembly for excavators, travelling reducer assembly, drive axle for loaders, powershift transmission for loaders, casting parts for loaders, drive axle for motor graders, drive train and components for bulldozers (torque converter, transmission, intermediate drive assembly, final drive assembly), hydraulic components, hydraulic pipelines and hydraulic equipment for construction machinery, and electric control system for construction machinery (the "Guidance Catalogue for Industrial Restructuring" restricted category, eliminated category). "Guidance Catalogue" restricted category, except for phase-out

projects)

10. Manufacture of complete automobiles, special-purpose vehicles (excluding ordinary trailers, dump trucks, tanks, etc.)

(Vehicles, vans and barn-type vehicles) manufacturing, key auto parts and accessories manufacturing

11. Research, development and manufacture of tractors and small and medium-sized agricultural machinery for planting and harvesting crops in hilly and mountainous areas, and agricultural engineering machinery for rural water conservancy and field road construction, as well as their key parts and components

12. Cocoon and silk, textile and printing and dyeing, garment deep processing

13. Ethnic crafts processing and production, training of traditional ethnic craftsmen, training in ethnic arts and culture

14. Sugar deep processing and waste molasses, bagasse, cane leaves, filter mud, alcohol waste liquid and other by-products of comprehensive utilization and cogeneration, bagasse pulp and paper by-products and waste liquid utilization

(except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

15. Comprehensive Utilisation of Resource Recycling in the Silkworm Industry

16. Warehousing, transport, freight forwarding, packaging, loading and unloading, handling, distribution processing, distribution, information processing and other integrated services; village-level express logistics integrated service station construction and operation

17. Microfinance services for "three rural areas", small and microenterprises, and self-employed businessmen.

affair

18. Comprehensive utilisation of urban water system sludge

19. Comprehensive Utilisation Technology Development and Application of Industrial Waste Heat, Waste Pressure, Differential Pressure and Generating Gas

20. R&D and manufacturing of internal combustion engines and their components ("Guidance on Industrial Restructuring")

(except for projects in the restricted and phased-out categories of the Catalogue)

21. Manufacture of Marine Auxiliary Equipment

22. Wire, cable, optical cable, electrical equipment manufacturing, capacitors and their supporting equipment manufacturing

23. Rubber processing special equipment manufacturing (high-performance radial tyres and intelligent manufacturing technology and equipment, energy-saving, environmentally friendly rubber machinery complete sets of equipment manufacturing)

24. Production of organic chemical raw materials such as ethylene, propylene, alkanes and other organic chemicals and downstream deep processing; salt chemical industry (except for the projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

25. Comprehensive development, use and deep processing of kaolin, marble, granite, bentonite and other characteristic mineral resources (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)

26. Production of high-end calcium carbonate such as ultrafine heavy calcium, modified heavy calcium, ultrafine light calcium, modified light calcium, nano calcium, etc., downstream deep processing and ancillary industries (except for projects in the restricted and eliminated categories of the Guidance Catalogue for Industrial Structure Adjustment)

27. Development and production of new carbon materials such as nano carbon materials, fine structure graphite, biochar, lithium battery anode, etc.

28. High-end quality float glass, electronic glass, automotive and photovoltaic glass production and downstream deep processing

29. Electric Arc Furnace Short Process Steelmaking and Processes (except for the projects of Restricted and Eliminated Categories of the Guidance Catalogue for Industrial Structure Adjustment)

30. Deep processing of forest trees and furniture production (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)

31. Recreation base construction and services

32. In-depth energy saving (80% alumina recovery rate, tonnes of alumina energy)

Alumina and its products with a consumption of less than 380 kg of standard coal and less than 3 tonnes of new water per tonne of alumina.

33. Precision aluminium production technology by segregation, high purity aluminium production technology

34. R&D and manufacturing of complete notebook computers

and communication products and key components

35. Development and manufacture of biochips and related data acquisition and processing equipment and software
36. Construction and operation of wind and solar farms
37. Agricultural products storage, preservation, drying, processing equipment R & D and production, construction and operation of facilities (except for projects in the restricted and phased-out categories of the Catalogue for the Guidance of Industrial Structure Adjustment)
38. Development and application of technologies related to rural habitat improvement, such as rural sewage treatment, household waste treatment, livestock and poultry manure treatment and toilet revolution, etc.
39. Tea and tea substitute manufacturing
40. Guangxi characteristic advantageous agricultural products production, primary processing and deep processing

41. High-end pharmaceutical and medical equipment production and modern pharmaceutical logistics, Zhuang, Yao and other ethnic medicines and ethnic medical equipment R & D production

42. Cultural and Creative Industries

43. Cross-border trade, international logistics, freight forwarding, cross-border e-commerce, integrated foreign trade services, market purchasing trade

44. Outsourcing of services

45. Rural road passenger transport

46. Processing of products imported and exported for border trade in border counties and cities (except for projects in the restricted and eliminated categories of the Catalogue for the Guidance of Industrial Structure Adjustment)