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Technology Development Zone**

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# ***See the Future***

**DALIAN CHANGXING ISLAND**





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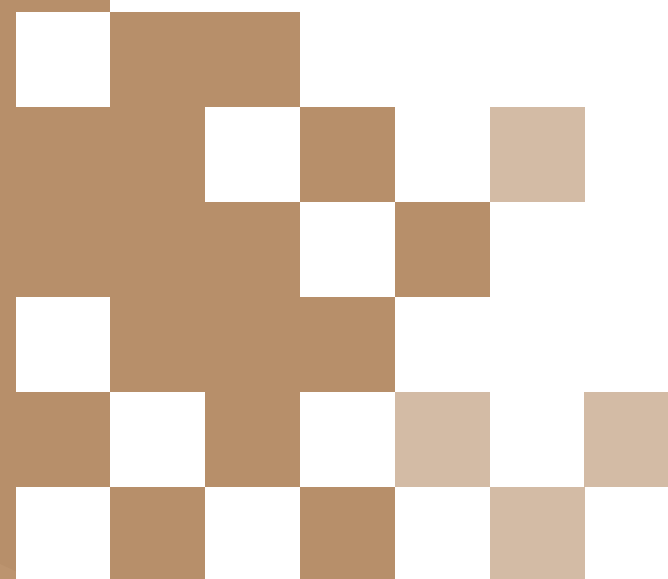
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DALIAN  
CHANGXING  
ISLAND



# 1

DALIAN  
CHANGXING  
ISLAND



CHAPTER 1

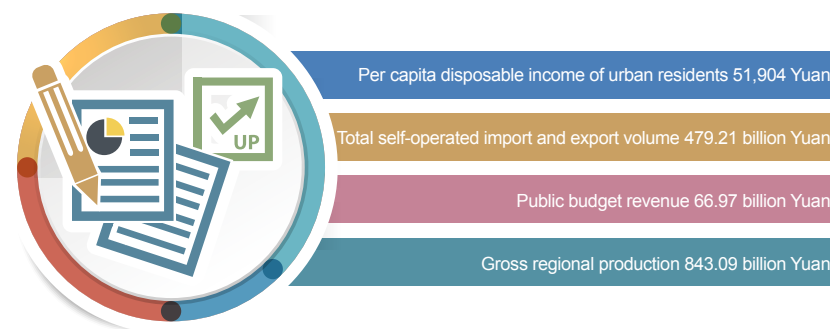
## APPROACHING DALIAN CHANGXING ISLAND ECONOMIC ZONE



# OVERVIEW OF DALIAN

Dalian is located in the eastern end of Eurasia and the southernmost end of Liaodong Peninsula, between the Yellow Sea and the Bohai Sea. It is among the first batch of open coastal cities in China, acting as an important port, also as trade, industry, tourism, scientific and educational city, an international shipping center, a logistics center and a financial center in northeast Asia, selected as one of the global environment top 500 city by the United Nations, one of the top 200 charming city in the world, and a permanent site of Summer Davos Annual Meeting.

## Economic overview in 2022



## Natural conditions

Population: 6.69 million  
 Area: 12,574 sq.km.  
 Temperature: 10.5 °C in average  
 Highest temperature: 27.3 °C (August)  
 Lowest temperature: -7.7 °C (January)  
 Humidity: 64% - 72%  
 Illuminance: 60%  
 Greening rate: 42.8%  
 Coastline length: 2211 km

## Big data

16,000+ foreign-funded enterprises, accounting for one-third of the foreign direct investment in Northeast China  
 32 universities and more than 300 research institutes  
 138 of the world's top 500 companies  
 244 Chinese and foreign financial institutions





# OVERVIEW OF CHANGXING

## ISLAND ECONOMIC AND TECHNOLOGY DEVELOPMENT ZON

Changxing Island Economic Development Zone (EDZ) is located in the northwest of Dalian City and consists of Changxing Island, Jiaoliu Island, Xizhong Island, Fengming Island, and Luotuo Island, all situated on the eastern side of the Bohai Sea. It is 83 kilometers away from the city center. The EDZ governs two streets: Changxing Island Street and Jiaoliu Island Street, with a permanent population of 110,000 people.

The planned area is 598 square kilometers, including 350 square kilometers of land area, 108 square kilometers of reclaimed land and 146 square kilometers of sea area. Among them, the main island, Changxing Island, covers an area of 252.5 square kilometers, making it the largest island north of the Yangtze River in China.

Dalian Changxing Island Economic and Technological Development Zone is the implementation area for China's dual national strategies of developing and opening up the Liaoning Coastal Economic Belt and revitalizing the northeast region, is the national advanced economic and technological development zone and petrochemical industry base, the national new industrialization demonstration base. The goal is to build a world-class green petrochemical industry base, a nationally renowned real economy development park, a high-quality development demonstration zone with deep integration of diversified economic entities, and a characteristic zone that supports industrial development driven by innovation.

Leveraging the advantages of Dalian Changxing Island Economic and Technological Development Zone, such as the convergence of national policies, its strategic location adjacent to the port, and the abundance of bulk petrochemical raw materials, the zone aims to spearhead development by focusing on scientific and technological innovation. It seeks to create a modern industrial system dominated by a "1+1+3" structure: a trillion-level green petrochemical industry cluster, a hundred-billion-level advanced coastal equipment manufacturing industry cluster, and additional clusters for biopharmaceuticals, new energy, and port logistics, each valued at ten billion yuan.



▼ Changxing island scenery



History  
June 9, 2005

## Developing history

**On June 9, 2005**, Liaoning Provincial Party Committee and provincial government decided to develop Changxing Island as a key area of Liaoning coastal economic belt. In November of the same year, the Party Working Committee and Administrative Committee of Changxing Island Coastal Industrial Zone were established.

**In July 2009**, Liaoning Coastal Economic Belt was promoted as a national strategy.

**In April 2010**, Changxing Island Industrial Zone was approved as a national economic and technological development zone.

**In July 2011**, the State Council approved the opening up of Changxing island port.

**In September 2014**, the State Council approved Changxing island (Xizhong island) petrochemical industry base as one of the seven national petrochemical industry bases.

**In January 2020**, Dalian Changxing Island Petrochemical Industry Park was listed by the Ministry of Industry and Information Technology as the ninth batch of national new industrialization advantageous industry demonstration base.

## Economic overview in 2022

Gross regional production 40.08 billion Yuan

General public budget revenue 3.45 billion Yuan

Industrial output value above designated size 242.27 billion Yuan

Completed fixed-asset investment 14.03 billion Yuan

Actual domestic investment utilization 29.3 billion Yuan

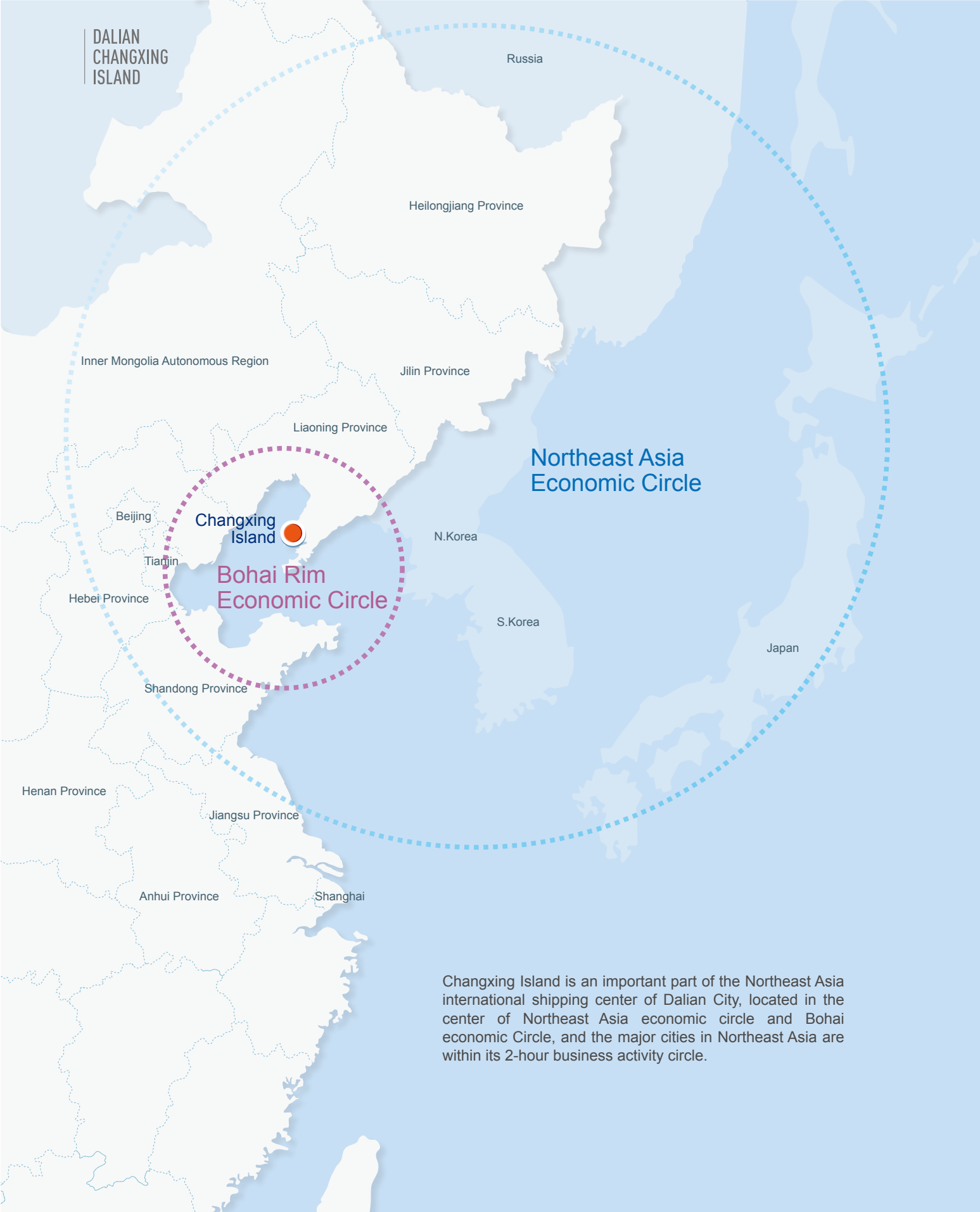
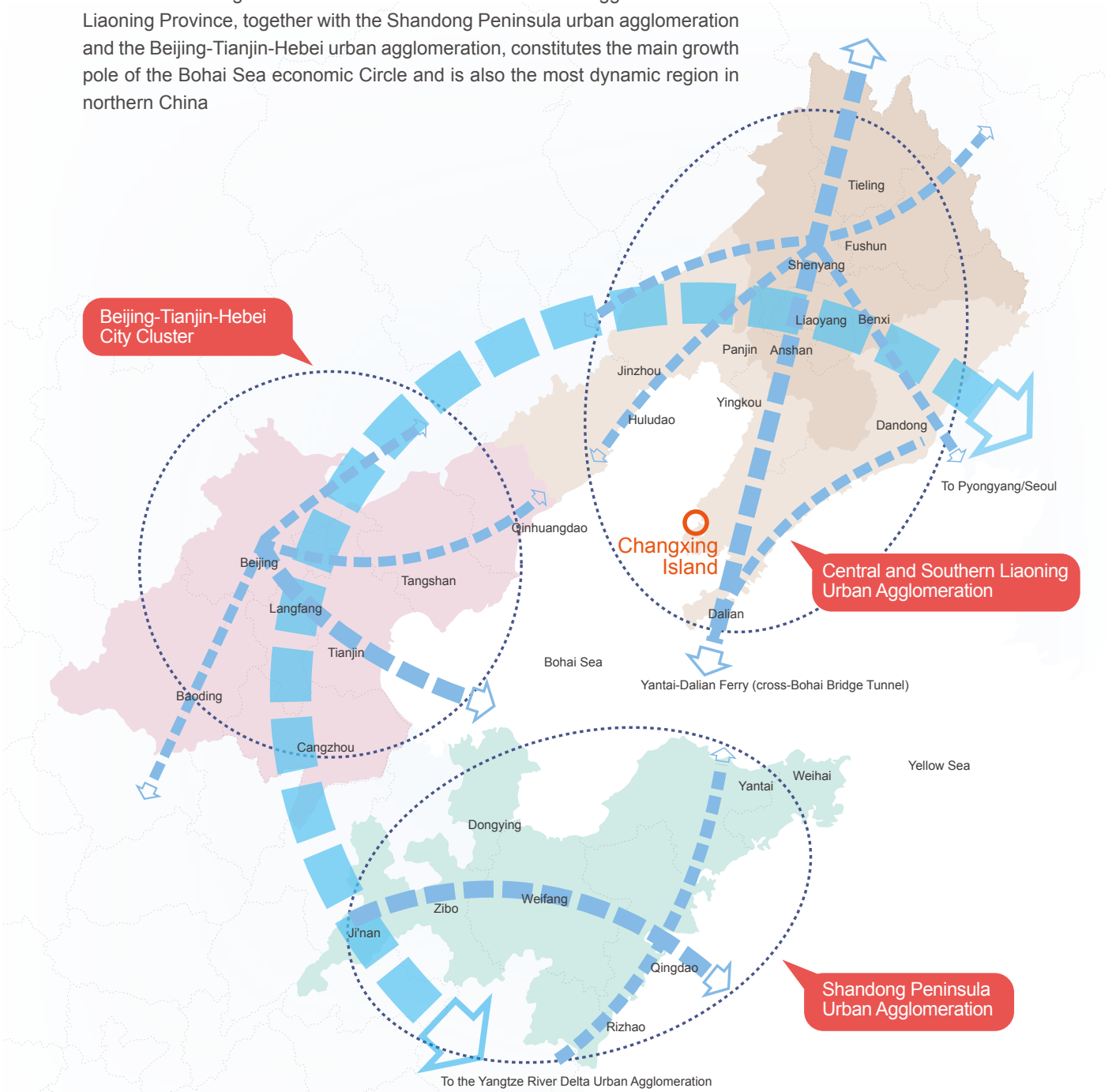
Total export-import volume 110.615 billion Yuan





# LOCATIONAL CONDITIONS

Changxing Island is an important node of urban agglomeration in central and southern Liaoning Province. The South-central urban agglomeration of Liaoning Province, together with the Shandong Peninsula urban agglomeration and the Beijing-Tianjin-Hebei urban agglomeration, constitutes the main growth pole of the Bohai Sea economic Circle and is also the most dynamic region in northern China

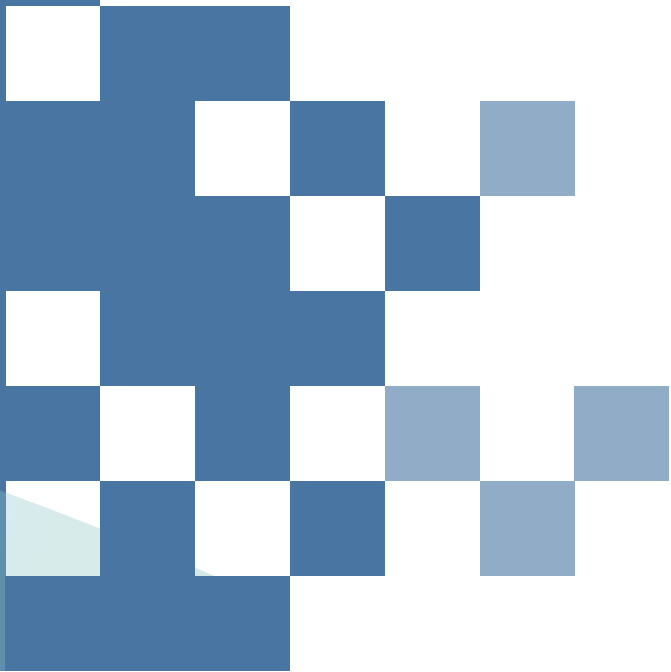


CHAPTER 2

**Industrial**  
LAYOUT

2

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# OVERALL PLANNING

Adhering to the principles of high quality and high-speed development, the region is focusing on the green petrochemical and fine chemical engineering industrial cluster as the core, supported by related industries. The aim is to establish a green, low-carbon, sustainable development industry ecosystem, forming a modern industrial system characterized by "1+1+3." This system comprises one leading sector, one key area, and three supporting industries, all working together to drive economic growth and environmental protection.

## Green petrification industry

Relying on leading enterprises such as Hengli and Dalian Petrochemical, Changxing Island is developing an integrated, intensive, diversified green petrochemical and fine chemical engineering industrial cluster. This cluster focuses on refining-chemical integration, chemical material processing, fine chemical engineering, new chemical materials, new energy materials, and specialty chemicals. The aim is to achieve chain extension and chain complementation, as well as chain reinforcement and chain consolidation within the petrochemical industry, creating a mega-scale green petrochemical industrial cluster. This development pattern is characterized by "two dragons dancing together," promoting cluster development and enhancing the competitiveness of the industry.

## High-end coastal equipment manufacturing industry

Center on developing the fields such as ships, ocean engineering equipment, new energy equipment, petrochemical equipment, high-end equipment manufacturing etc., gather some large-scale complete equipment enterprises, create significant technology equipment industrial cluster. Build one hundred billion- scale high-end coastal equipment manufacturing industry cluster.

## Port logistics industry

Utilizing the advantageous deep-water port and standalone island conditions of Changxing Island, the region is proactively working towards the establishment of a Comprehensive Bonded Zone and further expanding its opening-up efforts. This involves accelerating the development of the port infrastructure, the collection and distribution system, and the external connection road network, as well as enhancing port functionality. A key objective is to build a national energy strategic reserve base and a logistics storage and transportation base. The aim is to expedite the construction of "One Island with One Hundred Ports" and achieve a port handling capacity of 100 million tons by the end of the 14th Five-Year Plan, thereby fostering the growth of a ten billion-scale port and shipping logistics industrial cluster.

## New energy industry

Speed up building distributed wind power project, develop electrolysis seawater hydrogen production and energy storage projects with green power, explore complementary countryside complex mode of agriculture, optics, fishery, sideline, adjust measures to local conditions to make layout and implement photovoltaic projects like agriculture and optics complementation and fishery and optics complementation etc.. As of 2025, create ten billion new energy industrial cluster.



## Bio-pharmaceutical industry

Relying on the national-level petrochemical industrial base and the abundant output of basic chemical raw materials from the provincial-level fine chemical engineering park, as well as the collaborative advantages offered by the Dalian Institute of Chemical Physics of the Chinese Academy of Sciences and the Sci-Tech Innovation Platform of Dalian University of Technology, the Dalian Changxing Island Economic and Technology Development Zone is vigorously advancing the construction of a full industrial chain base for bio-pharmacy. This effort is focused on the 特色 Bulk Pharmaceutical Chemicals and emphasizes specific fields such as "micro-molecule, macro-molecule, high-molecule," etc. The goal is to seize the favorable opportunity presented by the upgrade of the Dalian International Life Science Corridor to a national strategy, taking Sino-Japanese cooperation as a starting point. The aim is to set a benchmark against international standards by aligning with the Regional Comprehensive Economic Partnership (RCEP) + ICH (International Council for Harmonisation of Technical Requirements for Pharmaceuticals for Human Use) + PIC/S (Pharmaceutical Inspection Convention and Pharmaceutical Inspection Co-operation Scheme). This strategy is expected to drive the high-quality innovation development of bio-pharmaceutical CDMO and propel the development of a trillion-scale bioengineering and pharmaceutical industry, initially creating a new leading edge of openness and cooperation in the biomedicine field in Northeast China, facing Northeast Asia.



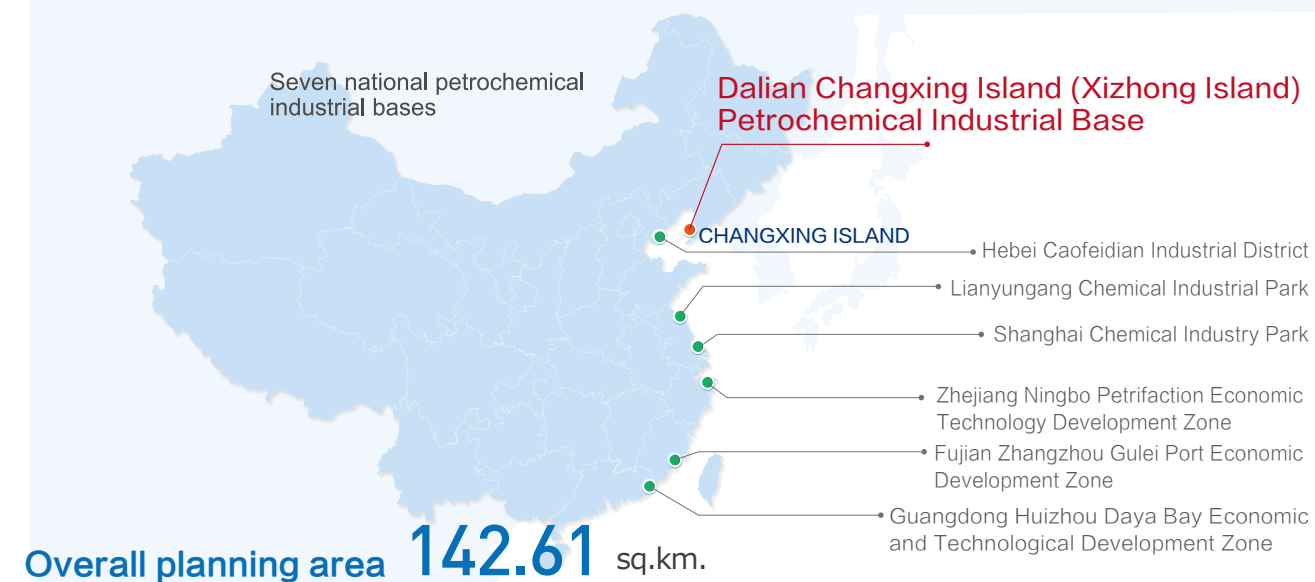


# GREEN PETRIFACTION INDUSTRY

Changxing Island shall build large-scale refining-chemical integration production base of multi-industry chain and multi-product cluster, which takes refining- chemical integration project as the leading, diversified raw material processing as the supplementation centers on synthetic materials, organic raw materials, clean oils etc., characterizes with new chemical materials, speciality chemicals, takes carbon-chemical products and gas as the supplements. Till 2030, total petroleum refining capacity shall reach 40 million tons-level, aromatic hydrocarbon 10 million tons level, ethylene 10 million tons level, petroleum product yield coefficient lower than 33%, the proportion of new chemical materials and high-end chemicals shall reach 30%, it shall realize green, low-carbon, high-end, sustainable and safe development, become world-level petrochemical engineering industrial base.



Dalian Changxing Island (Xizhong Island) Petrochemical Industrial Base is one of national seven petrochemical industrial bases approved by the State Council (the only one in Northeast China).



## Dalian Changxing Island (Xizhong Island) Petrochemical Industrial Base 110 sq.km.

Changxing Island Area (Hengli Park) 15 sq.km.  
Xizhong Island Area 95 sq.km.

## Petrifaction Park of Dalian Changxing Island Economic and Technology Development Zone 14.01 sq.km

Fine Chemical Engineering Innovation Park 5.9 sq.km  
Hengli Chemicals Warehouse Logistics Park 4.8 sq.km.  
Bio-pharmaceutical Park 2.25 sq.km.  
Public Engineering Supporting Area 0.06 sq.km.  
Catalyst Industrial Park 1.0 sq.km.

## Associated Supporting Area of Petrification Industry 11 sq.km

Chemical Engineering Emergency Guarantee Supporting Industrial Park 8.5 sq.km

## Hengli Petrochemical Fine Chemical Engineering Expands Reserve Area 10.1 sq.km

Hengli Hulushanwan Industrial Park 10.1 sq.km





# GREEN PETRIFACTION INDUSTRY

## Key Project Changxing Island Area

- Hengli Petrochemical has successfully commissioned all five of its PTA production lines, representing a total investment of approximately 40 billion yuan and a combined PTA production capacity of 12 million tons per year. This makes it the world's leading PTA production base with the most advanced technology, the most comprehensive supporting system, and the largest scale.
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- Hengli Petrochemical's 1.5 million-ton ethylene project, which commenced construction in 2018, involved a total investment of 27 billion yuan. It underwent commissioning tests at the beginning of 2019, producing 1.5 million tons of ethylene, 1.8 million tons of ethylene glycol, 800,000 tons of polyolefin, and 720,000 tons of styrene annually. This project is recognized as the largest in terms of scale, with the fastest construction speed, the highest diene yield coefficient, and the lowest energy consumption globally.
- The Hengli Polyester Science and Technology Industrial Park project was signed on March 23, 2021, with plans to build an annual production capacity of 1.6 million tons of high-performance resin, 2.6 million tons of polyester, 600,000 tons of BOD, 1.6 million tons of fine chemicals, and 450,000 tons of degradable new materials. The project also includes storage and transportation docks and supporting facilities, with a total investment of approximately 55 billion yuan. Construction of these projects began in September 2021, and all are expected to be completed and operational by 2024.





# GREEN PETRIFACTION INDUSTRY

## Key Project

### Xizhong Island area

- PetroChina and Dalian Petrochemical Removal and Reform Project (10 million tons chemical engineering refining and 1.2 million tons ethylene) with total investment about 70 billion Yuan signed the contract.
- Contract of Oxyepoxy and Carbon Dioxide Derivative Green Low Carbon Fine Chemical Engineering Phase I Project with total investment about 5 billion Yuan was signed.
- Contract of Liaoning Best Electronic Chemicals Project with total investment about 4 billion Yuan signed the contract.
- Huayi Lithium Battery Electrolyte and Additive Agent Project with total investment about 3.4 billion Yuan has started to construct.
- Yearly yield 200,000 tons alkylate oil project of Menglian Petrochemical, deactivated catalyst processing project of Numerous Wisdom Innovation, solid waste cyclic utilization project of Xizhong Island industrial has completed and put into operation.





# GREEN PETRIFACTION INDUSTRY

## Fine Chemical Engineering Innovation Park

Changxing Island Fine Chemical Engineering Innovation Park is the first batch of provincial-level chemical parks approved by Liaoning Province. With a planned area of 6.9 square kilometers, the park is adjacent to the national-level petrochemical industry base where Hengli Petrochemical is located. Currently, the park has attracted 32 companies with total investments of nearly 10 billion yuan. It has incubated numerous "golden seed" projects that fill domestic gaps and address bottleneck issues in engineering, such as polyimide monomer, polyphenyl ether, and boron isotopes. An industrial cluster led by green petrochemicals, fine chemical engineering, and new materials of chemical engineering has been formed.

## Pharmaceutical Industry Park

Changxing Island Pharmaceutical Industrial Park is the first group of approved provincial-level petrochemical park in Liaoning Province, total planned area of the park is 2.25 sq.km., advances all-element integration of bio-pharmaceutical industrial chain, creates domestic first-rate bio-pharmaceutical CDMO industrial base, cultivates and expands innovation enterprises, builds national-level new pharmaceutical R&D base and incubation base. At present, projects like Wonful Pharmaceutical, Runhui Pharmaceutical, Jisen Pharmaceutical, GL Biochemical etc. have settled in the park.





# COASTAL EQUIPMENT MANUFACTURING INDUSTRY

## Park area

44 sq.km

## Industry planning

Focus on developing the fields with such as shipping and ocean engineering equipment, new energy equipment, petrification equipment, high-end equipment manufacturing etc., gathering some large-scale complete equipment enterprises, to create amajor technical equipment industrial cluster. Till 2025, realizing 85 billion Yuan as value of gross output above designated sized.

## Key projects of shipping and ocean engineering equipment

Ship repairing and green disassembly project of Dalian Shipbuilding Industry covers an area of 950,000 m<sup>2</sup>, primary businesses are ship conversion, repair and building, ocean engineering construction and green shipbreaking business.

Hengli Heavy Industry's series of projects create a "1+10" industrial development pattern, 10 subsidiary companies under Hengli Heavy Industry shall continue to explore shipbuilding industry and relevant fields deeply. The project covers an area of 5.3 sq.km, owns one dry dock in 460m and 4 slipways in 700m, 3000m frontage and equips with 1 gantry hoisting crane for 1000 tons and 3 cranes for 900 tons, possesses construction capacity of shipping and ocean engineering with 400,000 tons-level and below.





# COASTAL EQUIPMENT MANUFACTURING INDUSTRY

## New energy equipment

### Hydrogen energy equipment

Focusing on areas such as large-scale hydrogen production, transportation, and storage, as well as the bulk manufacture of fuel cells, we aim to advance the industrial development of critical materials, components, and power assemblies for hydrogen cell stacks. This will create an integrated industrial chain for hydrogen energy equipment and core components.

### Wind power equipment

Leveraging the abundant offshore wind power resources in the region, as well as the advantages of having a strong equipment manufacturing industrial chain and ample harbor land, we aim to collaborate with domestic leading production enterprises in the wind power sector, such as manufacturers of turbines, blades, masts, and other components. Together, we will establish a wind power manufacturing center, R&D center, and operation and maintenance center. These centers will primarily serve the market of Northeast Asia and Southeast Asia, positioning Changxing Island as a key player in marine new energy, and will also contribute to the development of a new energy high-end equipment comprehensive industrial park.

### Photovoltaic equipment

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## Energy storage equipment

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# COASTAL EQUIPMENT MANUFACTURING INDUSTRY



## Energy storage equipment

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## Port logistics equipment

To establish a full industrial chain of intelligent logistic equipment, we plan to bring together leading enterprises specializing in storage equipment, transportation and handling equipment, and logistics and sorting equipment. This collaboration will span across various stages, from manufacturing to system integration, creating a comprehensive value chain that covers all aspects of intelligent logistics.

## High-end equipment

Focus on developing the fields such as intelligent manufacturing, electronics, energy conservation and environmental protection etc.. Over 50 enterprises have settled in the park, including Dalian Rubber and Plastics Machinery, Haitian Precision Machinery, DKE, Suntak Electronics, Yiduo Piping etc..







# Port Logistic Industry

## Park area

**11** sq.km.

## Industrial plan

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## Key projects

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# NEW ENERGY INDUSTRY

## Park area

**4.8** sq.km  
Phase I started 2.4 sq.km

## Industrial plan

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# NEW ENERGY INDUSTRY

With the richest deep-water coastline resources in Bohai Bay, Changxing Island boasts an important position as a major comprehensive port in the Dalian region, contributing to the formation of an integrated transportation network encompassing land, sea, and rail connections. This network not only serves as a crucial link between the main rail and highway networks of Northeast China but also extends its influence to neighboring regions such as East Inner Mongolia, while maintaining strong economic ties with countries like Japan, South Korea, and Russia.

Leveraging these strategic advantages, Changxing Island has partnered with the Dalian branch of COSCO Group, a centrally-owned enterprise, to establish a cutting-edge comprehensive logistics base for hydrogen-based new energy and LPG products on Xizhong Island. This initiative aims to create a green energy supply chain in Northeast China, featuring the production of green ammonia, green methanol, and green aviation fuel.

Key cooperative projects within this endeavor include the development of a liquefied hydrogen and chemical berth capable of handling vessels ranging from 10,000 to 50,000 tons, along with the allocation of 500,000 square meters of land for a hazardous chemical tank farm and related infrastructure to support land and maritime transportation. These facilities are scheduled to commence operations in 2025, marking a significant step towards establishing Changxing Island as a pilot demonstration area for a fully integrated hydrogen-based energy industry, complete with production, storage, transportation, trading, and refueling capabilities. This initiative will not only bolster the local economy but also position Changxing Island as a leading force in the global green energy sector.



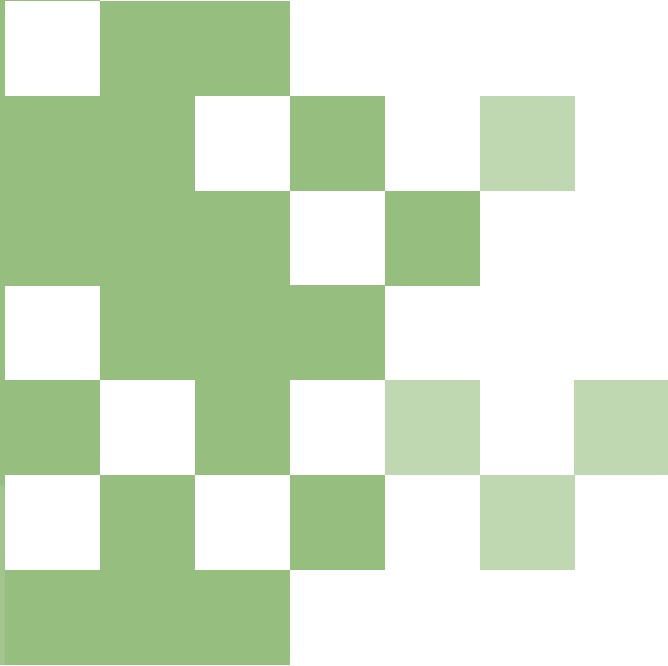


CHAPTER 3

**SERVICE  
SYSTEM**

**3**

DALIAN  
CHANGXING  
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# TECHNOLOGICAL INNOVATION

The economic zone has formed a scientific and technological innovation system supported by research institutes, industry-university-research cooperation platforms, scientific and technological achievements industrial transformation bases, and enterprise research and development institutions.

There are six state key laboratory of chemical industry that have been evaluated as excellent in China, three of which are in Dalian, and the pilot plant test base is located in Changxing Island. All the year round, there are eight teams led by academicians to carry out scientific research on the pilot plant test base. The innovation chain propels the industrial chain, which is the most distinctive feature and greatest competitive advantage of Dalian Changxing Island Economic and Technological Development Zone.

## Changxing Island Park of Dalian Institute of Chemical Physics, Chinese Academy of Sciences

The Dalian Institute of Chemical Physics, Chinese Academy of Sciences, has constructed a scientific research base spanning 1,000 acres on Changxing Island. This includes research platforms such as those for lasers, aerospace catalysts, catalyst amplification, and the comprehensive testing of energy chemical technology, along with the world's brightest extreme ultraviolet free electron laser. A number of scientific and technological achievements, such as DMTO catalysts and aerospace catalysts, are at the international leading edge. Additionally, the Clean Energy Innovation Institute of the Chinese Academy of Sciences has begun construction of a 3,000-acre pilot plant test and industrialization base.

## Liaoning Province Catalytic Industrial Generic Technology Innovation Center

The Liaoning Province Catalytic Industrial Generic Technology Innovation Center serves as an integral part of the pilot plant test base for catalyst amplification and catalytic reaction process amplification research. It is also associated with the National Laboratory of Clean Energy (in preparation) at the Dalian Institute of Chemical Physics, Chinese Academy of Sciences, as well as the Clean Energy Innovation Institute of the Chinese Academy of Sciences. Many of the scientific and technological achievements related to the DMTO catalyst have been successfully commercialized.

## Catalytic Industrial Park of Dalian Institute of Chemical Physics, Chinese Academy of Sciences

The park spans approximately 1 square kilometer and has been jointly developed by the Administration Committee of Changxing Island Economic and Technology Development Zone and the Dalian Institute of Chemical Physics. Its primary focus is on leveraging the Catalyst Amplification Research Platform of the Dalian Institute of Chemical Physics and the Liaoning Province Catalytic Industrial Generic Technology Innovation Platform to foster the catalysis industry and create what is termed the "Capital of World Catalyst."

## DALIAN CHANGXING ISLAND

- High-tech enterprises 43
- Eagle enterprises 9
- Gazelle enterprises 6
- Turnover of technology contract 580 million Yuan
- R&D investment of whole society realizes 970 million Yuan
- Construct provincial-level industry-university-research alliance 8
- Provincial achievement transformation pilot plant test base 1
- Provincial -level "ball-planting" pioneering enterprise 2
- Provincial-level technology innovation center approved to build 1
- Key R&D plan with project approval from Municipal Bureau 1
- Project with approval and open competition mechanism to select the best candidates 4
- Approved municipal -level maker space 1

## Newly built plant of Dalian Institute of Chemical Physics, Chinese Academy of Sciences

With idle plants, Dalian Changxing Island Economic and Technology Development Zone and Dalian Institute of Chemical Physics, Chinese Academy of Sciences co-construct "newly built plant", and provides policy support such as production and office building and fund subsidy etc. for settled projects of newly built plants free of charge, breaks through final one kilometer of scientific and technological innovation entrepreneurship, plays a driving role of "help to get on a horse and escort a distance", speeds up cultivating a group of strategic emerging industrial projects of solving "stranglehold" problems. At present, it gathers many teams and enterprises at start-up stage to innovate and start up the business here, including some led by the academicians. In which, many projects like fuel gas direct-fired ultra-low nitrogen burner, aluminum-air battery, new type of alkaline water electrolysis electrode, polyimide film material etc. possess international leading level.

## Liaoning Province Fine Chemical Engineering Industrial Generic Technology Innovation Center

Founded in May, 2014, Liaoning Province Fine Chemical Engineering Industrial Generic Technology Innovation Center is one of first group of 9 big generic technology platforms in Liaoning, at present, it is also the sole provincial-level fine chemical engineering generic technology innovation platform. The platform relies on National Key Laboratory of Fine Chemical Engineering of Dalian University of Technology, and Liaoning Fine Chemical Engineering Technology Center to construct, provides whole process service from achievement screening to technology transfer, pilot plant amplification, capital connection, industrial landing, there are 14 pilot plant test projects which settle in the platform.





# DEEP WATER HARBOR

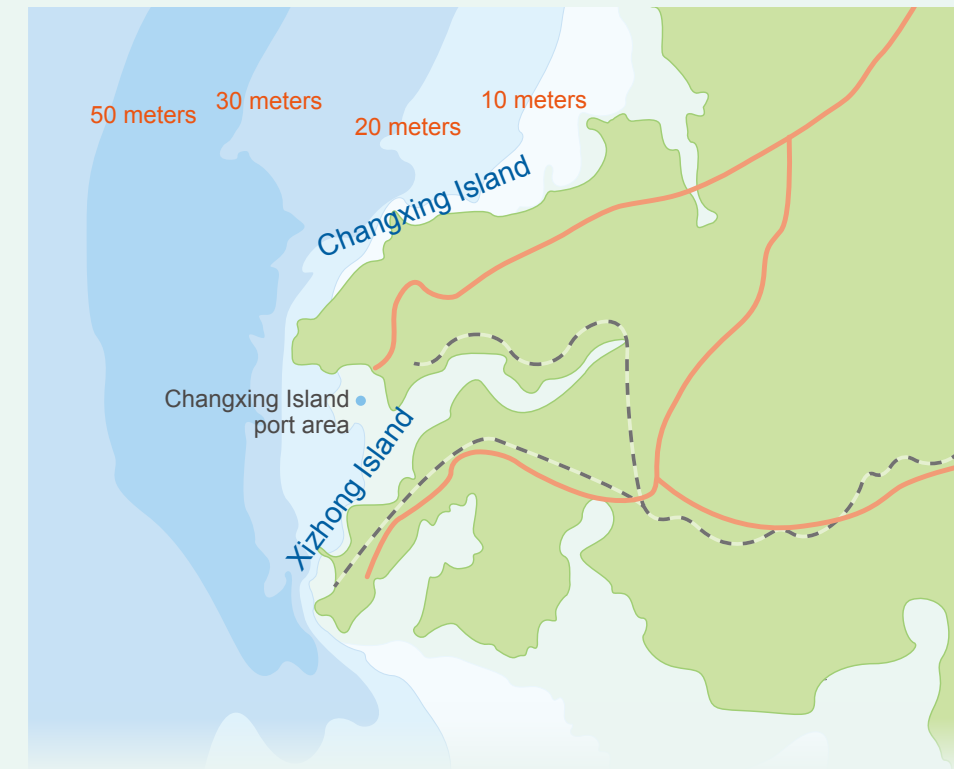
Total coastline in the whole District is 189 km, of which, total length of planned ports and industrial shoreline is 120 km. In 2005, Expert Group of Ministry of Transportation thought: Dalian Changxing Island is the sole deep water shoreline which is not developed on the whole in our country for the moment, it is the best deep water shoreline resource in Bohai Bay.

## Shoreline docks

It builds 43 berths in total, including 26 transportation berths, 17 repairing and shipbuilding berths, in which, 35 berths above 10,000 tons-level, it is the second largest combined port in Dalian, 3 liquid bulk cargo wharves in 300,000 tons-level and 3 liquid bulk cargo wharves in 100,000 tons-level in North Port Area have been built and put into service.



▼ Changxing Island Port Area



## Water depth conditions

Offshore 400 meters  
Water depth **20** m

Offshore 1000 meters  
Water depth **30** m

Offshore 5000 meters  
Water depth **50** m



300,000 tons crude oil quay ▼





**Convenient sea transportation:** On the sea, it is 59 sea miles from Lvshunkou to the south, 84 sea miles from Qinhuangdao Port, and 170 sea miles from Tianjin Port to the west. It is 66 sea miles from Yingkou Port to the north, 339 sea miles from Incheon Port of South Korea, and 646 sea miles from Nagasaki Port of Japan to the east. The main ports have opened up to the outside world.

**Aviation hub:** It is 110 km from Dalian Zhoushuizi International Airport and 90 km from [Name of New Airport]. Zhoushuizi Airport is a portal airport for Northeast China, servicing 188 airlines, including 158 domestic airlines, 30 international and regional airlines. It is open to navigation with 109 cities from 13 countries, Hong Kong, Macao, and Taiwan, forming an airline network that covers the whole country, radiates to Japan, South Korea, and Russia, and connects with Europe, America, Australia, and Asia. Yearly flight take-offs and landings are 117,000 sorties, with a yearly passenger throughput of 17.5 million person-times.

**Rapid land transportation:** Advantageous traffic location. It is 292 km from Shenyang to the north, taking 1.2 hours by high-speed train. It is 600 km from Harbin, taking 3.5 hours by high-speed train. It is about 30 km from the West Station of Wangfangdian by high-speed rail. It is 83 km from the exit of the Dalian Highway, taking 1 hour by car. Land transportation is convenient. The total distance of the road in the district is over 500 km, connecting with national and provincial highways through 3 trunk roads: Pikou-Changxing Island Highway, Chengzitan-Bachagou Line, and Xizhong Island Petrification Road. It has constructed over 50 km of railway within the district, connecting with the Harbin-Dalian Railway. Xizhong Island and Changxing Island Petrochemical Park and the Public Port Area have realized railway connections to the port areas.



# CONVENIENT TRANSPORTATION



# PROFESSIONAL SUPPORTING

Changxing Island Economic and Technology Development Zone not only owns intact infrastructure, but also possesses professional supporting capabilities of the industries such as chemical engineering and shipbuilding etc..

## Water supply:

Tap water supply capacity 100,000 tons/day, at present, average daily water consumption 20,000 tons. Total water consumption in far-seeing plan is 1.48 million tons/day, including tap water 400,000 tons/day, sea water and desalted water 600,000 tons/day, recycled water 480,000 tons/day.

▼ Changxing Island Water Works Factory



▼ Power Substation



▼ Dalian Rixin Heating Power Company



## Fuel gas:

It has built 1 natural gas station, 1 LNG storage tank in 1,750 m3, 2 LNG storage tanks in 150 m3, which can supply gas 20,000 m3 per hour.

## Industrial gas:

It has built large-size industrial gas segregation apparatus, provided industrial gas like liquid oxygen, liquid nitrogen, liquid argon etc. with production capacity of 270 tons/day.

## Sewage disposal:

It has built 3 sewage disposal plants with processing capacity 100,000 tons/day, and satisfied current demands.

## Industrial vapor:

It establishes 19 heat converting stations in industrial area and it can provide vapor temperature above 180℃ and pressure above 1Mpa.

## Hazardous waste disposal:

Industrial hazardous waste disposal base has put into operation with floor area 370,000 sq.m, disposal capability 245,000 tons/year.

▼ Towngas natural gas station



TAIYO NIPPON SANSO Industrial Gas ▼



▼ Sewage Disposal Test



▼ Dalian Changxing Ganghua Fuel Gas Co., Ltd.

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## PUBLIC SERVICE

### Culture and sports

Physical fitness and cultural recreation facilities are rather all rather ready ont the Island. With an area of 500,000 square meters, the Comprehensive Sports Park has established various ball parks and a 4000m fitness trail.

### Medical care and public health

Achieve national equalization of basic public health services to satisfy the basicmedical health service needs of urban and rural residents. One Grade A Tertiary General Hospital is under construction.

### Leisure

Golf Resort is located on the northwestward coast of Changxing Island, and boasts an 18-hole Scotland-style golf course;The Coastal Park is situated on the beach in the north of Changxing Island, renowned for 10-mile sandy beach and picturesque views, itoffers not only the opportunity to experience aquatic sports like yachting, but also the joy of shelling and fishing.

### Education

Give priority to the faculty like Northeast Normal University, Beijing Normal University etc., build one modern senior high school, one junior middle school and nine-year system school respectively, 4 primary schools, Changxing Island Senior High School is "Provincial Demonstration Senior High School". There are complete resources of early childhood education and vocational education.



▼ Coastal Ecology Lake



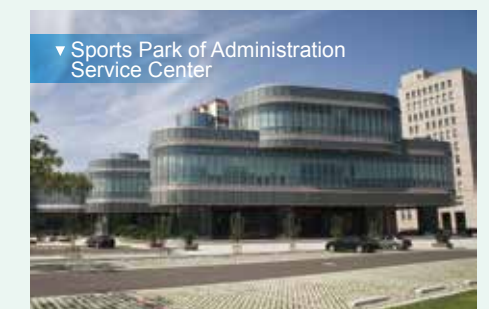
▼ Coastal Park



▼ Golf Court



▼ Santang Primary School



▼ Sports Park of Administration Service Center

### Convenient service

Establish convenient service network in district and sub-district levels, the service like postal service, communication, finance, social insurance etc. covers various communities, all citizen service in district level concentrates on District Administration Service Hall, social insurance and labor personnel etc. can carry out one-window service and one-station handling in the hall.



# 4

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CHAPTER 4

## BUSINESS ENVIRONMENT



▲ Changxing Island coastline

Changxing Island Economic and Technology Development Zone is national level development area and a Liaoning Province comprehensive reform pilot region, enjoys municipal level project administration authority, provincial and municipal approval specific channel policy and special financial and taxation system, project investment and corporate operation etc. possess larger institutional advantages. “Zero approval” at early-stage of the project, “zero charge” of project implementation, “zero penalty” of project operation are construction targets of business environment.



## SAVE TIME

- Enjoy municipal level administration authority, most of administration permits and administrative enforcement are arranged in the Island.
- Firstly implement “List system+promise notification system” of construction projects, 20 Million tons/year Refining-Chemical Integration Project invested and constructed by Jiangsu Hengli Group as World Top 500 Enterprises in Changxing Island created the quickest record of completion in 19 months and commissioning in 22 months. New Material Project invested by Shanghai Huayi Group and Changzhou Sunlight Pharmaceutical obtained construction permits and realized the commencement within 70 days after signing the contract. On the basis, it fully carries out General Secretary Xi Jinping’s important instructive spirit of “Create an international first-class business environment”, focuses on newly built and expanded industrial engineering projects in the whole district, further breaks through current approval procedure, simplifies approval links and items, compacts approval time, formulates and launches “Seven” Innovation Measures Implementation Opinions That Changxing Island Economic and Technology Development Zone Deepens Administrative Approval Reform.

- Approval and supervision service like project filing, industrial and commercial registration, construction, planning, land, state taxation and local taxation etc. shall be accepted in one window and arranged in one station at the District Public Administration Service Center.
- Firstly, we will implement remote handling of business licenses and electronic bidding throughout the province, accelerating the advancement of “Internet + politics”.
- Working departments of Administration Committee implements guaranteed satisfactory solution system, whole-process commission, time-limited completion system.
- Administration Committee takes charge of site formation up to elevation requirements of regional planning design for investment projects free of charge.
- Administration Committee provides parcel red line of “road, water supply, drainage, sewage, single circuit power supply, communication” connectors to investment projects free of charge, takes charges of coordinating with socialized operation units to lead fuel gas, vapor, general industrial water, recycled water, private network, cable TV to red line of project parcel.
- Waive urban infrastructure supporting fee.
- Reduce or cancel administrative charges within financial jurisdiction in the level.
- According to project investment situations, give certain amount of infrastructure construction subsidies for invested projects.
- Sewage treatment fee of general industrial projects can be reduced or canceled.



## SAVE INVESTMENT



# ISLAND LANDSCAPE







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