

QINGDAO PROFILE

Qingdao is a regional economic centre, an important international trading port as well as a maritime transport hub in China. It is one of China's top five ports for foreign trade. In 2016, the city's GDP totalled 1.001 trillion yuan (euro 133.5 billion) ; the public fiscal budget revenue was 110 billion yuan (euro 14.7 billion). The Port of Qingdao has built trade relationship with more than 700 ports worldwide. In 2013, the port handled 400 million tons of cargo. Its total throughput ranked the 7th in the world and its throughput of crude oil ranked the 1st in China. Qingdao's Airport runs 146 international and domestic routes. In 2016, it handled 20 million passengers, and 456,708 tons of cargo and mail.

Qingdao is a famous maritime science city and a leading city in China's Blue Economy. The city is home to 70% of China's academicians and 30% of senior researchers in maritime science and technology. Research institutions in Qingdao are responsible for 55% of maritime research subjects under the National "863" Program and 90% of maritime research subjects under the National "973" Program. The five major waves of development of ocean-farming all started in Qingdao. In January 2011, the Development Plan of the Blue Economic Zone of Shandong Peninsula was approved. Qingdao has since become a leading city in the core area of this zone. By 2017, Qingdao will have established a pilot zone of blue economy, a cluster of independent maritime research and development, a cluster of hi-tech industries and a demonstration area of the protection of maritime ecological environment.

Qingdao industries

The tradition and pillar industries in Qingdao are:

household electrical appliances, petrochemical, chemical, textile and clothing,

food and beverage, machinery steel, motor vehicles, marine engineering.

However, as the one of the important costal city, Qingdao is reforming its industrial struction and have the following new developing plan:

Abstract from the Overall Planning for the Development of the Ten Major Emerging Industries in Qingdao (period 2014-2020)

Issued by Qingdao Development and Reform Commission in June 2014

10 Emerging Industries in Qingdao Planed

- new materials,
- environmental protection,
- aviation economics,
- tourism equipment,
- maritime biological medicine manufacturing industry,
- industrial robots,
- maritime equipment,
- seawater desalination industry,
- maritime energy
- and 3D printing technology.

Planned/undergoing and setted Qingdao Emerging Industries parks

Industrial	ten major emerging industries	Emerging Industries
Priority industry	new materials,	Chengyang marine engineering structure and functional materials Industrial Park, Laoshan Bio Medical Material Industrial Park, Shi BeiModern Textile Industrial Park,

		<p>Jimo solar energy material industrial park, Pingdu new energy material industrial park, Laixi carbon material industrial park, Dong Jia Kou new material industrial park, Xinhe Petrochemical new material industrial park, Mingchun Rubber New material production Industry base</p>
	<p>environmental protection</p>	<p>Pingdu and Huangdao energy saving household electrical appliance industry area; Commercial cold chain technical equipment industrial base and cold chain high-tech industrial park of Huangdao and Jiaozhou, Sino German ecological garden, Xintiandi vein Industrial Park, Huangdao Industrial Park for utilization of waste tire resource and Industrial Park for utilization of construction waste resource</p>
<p>Dominant industries</p>	<p>aviation economics</p>	<p>Jiaodong Airport Economic Zone, China Aviation Industrial Park, China Aviation Industry (Qingdao) Science and Technology Park, Nanshan Group Aviation City, Pingdu City Industrial Park, Tonghe aviation supporting industrial base.</p>
	<p>tourism equipment - Cruise yacht</p>	<p>Cruise ship port, Jiaozhou Yacht Industrial Park, Development Zone Yacht Industrial Park.</p>

	maritime biological medicine manufacturing industry	<p>The blue valley marine medicine science and technology park,</p> <p>Laoshan marine bio Industrial Park,</p> <p>The blue biological medicine industrial park of in high-teck zone</p> <p>Huangdao marine bio Industrial Park,</p> <p>Jiaozhou bio medicine industrial park</p>
	industrial robots,	Qingdao international robot industrial park.
Prospective industry	maritime equipment	<p>Zhu Cha island group, Tian Heng island group, Dagan island group marine new energy comprehensive utilization area,</p> <p>Silicon Valley national marine new energy technology innovation park,</p> <p>Huangdao marine new energy equipment industrial park.</p>
	seawater desalination industry	<p>Marine instrument and equipment science and Technology Park,</p> <p>Marine instrument and equipment industrial park.</p>
	maritime energy	<p>The Silicon Valley seawater desalination equipment technology park,</p> <p>The small and medium size sea water desalination equipment industrial base in the west coast port economic zone</p> <p>The large seawater desalination integrated equipment base of the Dong Jia Kou.</p>
	3D and 3D printing technology.	Qingdao 3D printing industry park.

Article of China Daily

Rich and majestic Qingdao sets sail for further growth

By Chen Meiling (China Daily)

Updated: 2018-04-27

Alluring coastal metropolis reaches out to extend its substantial maritime sectors

Qingdao, in eastern Shandong, has set its sights on further promoting innovation and development in its maritime industries, on the way to becoming a coastal city of international stature.

Mayor Meng Fanli said that in addition to boosting its traditional shipbuilding, ocean transportation and coastal tourism industries, his city would also explore emerging fields such as marine biomedicines and sea water desalination.

"We will develop a modern maritime industrial sector with the emphasis on high quality, in a bid to help our province and country grow into a strong maritime power," Meng told a forum earlier this month.

The output value of Qingdao's maritime sector reached 290.9 billion yuan (\$46 billion) in 2017, up 15.7 percent on 2016 and contributing 26.4 percent to local GDP, data from the city's statistical bureau showed.

Helping the city's maritime sectors grow are a number of research and development entities. More are under construction or planned, which are expected to give a further boost to the future growth of the industries.

One prime example is the construction of the National Deep Sea Center - the country's first public service base for deep sea research, surveys and equipment testing - completed recently.

The center will offer support to the development of cutting-edge deepsea exploration equipment.

Qingdao is a major development center and the home port for China's most advanced deepsea submersible, Jiaolong, which can dive 7,000 meters below the sea surface. It has completed over 150 trials and is ready for regular operations.

The Qingdao Institute of Marine Geology is home to a key natural gas hydrate laboratory, which has played a crucial role in the exploitation of flammable ice in the South China Sea.

In early March, official approval was given for the construction of China's first national marine equipment quality supervision and inspection center located in the city.

Qingdao has 18 research institutes and eight universities that have marine engineering programs, providing students with strong technological training for the city's maritime industries.

To further commercialize its scientific research, Qingdao has launched 110 projects in marine biomedicines to attract investment.

Leading investors in these projects include Shenzhen-based BGI, one of China's top innovators in gene sequencing. The company established its northern China center in Qingdao, to collect and study the genes of oceanic species.

An important hub city of the Belt and Road Initiative, Qingdao has also worked with international partners, including institutions and companies from Thailand, Malta and Indonesia, in innovative research into new vessels and engineering equipment.

Qingdao occupies a coastal region of over 12,000 square kilometers, about 1,000 sq km more than its land surface. Its rich marine resources attract tourists from around the world.

More than 88 million tourists visited Qingdao last year, whose spending topped 165 billion yuan. The number of overseas tourists increased 23.4 percent to 109,000 in the same period.

Over the past 10 years, Qingdao has also been the city that hosted the most international sailing events in Asia, such as the 2008 Olympic Games sailing events, the Volvo Ocean Race and ISAF Sailing World Cup.

Many local schools have established courses for students to learn basic knowledge of marine sports. About 120 schools have taught sailing, with more than 30,000 teenagers acquiring sailing skills.

According to its mayor, the city will build itself up as an influential port city, applying information technology and big data to support its marine economy.