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# 湖南岳阳绿色化工 高新技术产业开发区

HUNAN YUEYANG GREEN CHEMICAL  
HIGH-TECH INDUSTRIAL DEVELOPMENT ZONE

建设湖南万亿现代石化产业核心基地  
打造世界领先的绿色高端化工新材料产业基地

To build a core base of trillion yuan modern petrochemical industry in Hunan.  
To become a world leading green high-end chemical and new material industry base.



湖南·岳阳  
HUNAN·YUEYANG

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## 高新区概况 OVERVIEW OF HI-TECH ZONE

岳阳古称巴陵，又名岳州，建城始于公元前505年，是一座有着2500多年悠久历史的文化名城，集名山、名水、名楼、名人、名文于一体。依长江、傍洞庭、纳三湘四水，坐拥湖南全部163公里长江岸线和60%的洞庭湖水域面积、1500多平方公里的东洞庭湖湿地，是湖南省唯一、全国第5个长江经济带绿色发展示范区。2023年岳阳市以GDP总量4841.78亿元排名湖南省第二，持续稳坐全省“第二经济强市”。

湖南岳阳绿色化工高新技术产业开发区位于岳阳市北部，是2003年经湖南省人民政府批准设立的省级经济技术开发区，规划面积29.48平方公里，由云溪片区、巴陵片区、长岭片区三个片区组成，是湖南省最大的专业化工园区。高新区依托湖南石化，现已形成了以1000万吨/年炼油、100万吨/年乙烯炼化一体化为龙头，碳一、碳二、碳三、碳四、碳五、芳烃六条产业链为支撑，锂系合成橡胶、己内酰胺、环氧树脂、环氧丙烷四大特色产业链为主导，新能源、新材料、高端化学品为延伸的绿色石化产业集群，先后获得国家高技术产业基地、国家火炬计划特色产业基地、国家新型工业化示范基地、国家循环化改造示范园区、国家低碳工业试点园区和国家新型功能材料集群等六大“国字号”招牌，被纳入湖南省重点发展和培育的万亿石化产业集群。

Yueyang, formerly known as Baling or Yuezhou, was first built in 505 BC. It is a cultural city with a history of over 2,500 years, integrating famous hills, water, tower, people and essays. Located on the Yangtze River and the Dongting River, embracing four rivers, it boasts the entire 163 kilometer Yangtze River bank in Hunan, 60% of the Dongting Lake water area, and over 1,500 square kilometers of the Dongting Lake wetland. It is the only green development demonstration zone in Hunan Province and the fifth in the country for the Yangtze River Economic Belt. In 2023, Yueyang City ranked second in Hunan Province with a total GDP of 484.178 billion yuan, continuously maintaining its position as the “second strongest economic city” in the province.

Hunan Yueyang Green Chemical Hi-tech Industrial Development Zone, located in the north of Yueyang City, is a provincial economic and technological development zone approved by the People's Government of Hunan Province in 2003, with a planned area of 29.48 square kilometers, composed of such three districts as Yunxi District, Baling District, and Changling District. It is the largest professional chemical park in Hunan Province. The high-tech zone, relying on Hunan Petrochemical, has now formed a leading enterprise with 10,000,000 tons/year of refining and 1,000,000 tons/year of ethylene refining and chemical integration as the leader, six industrial chains of carbon 1, carbon 2, carbon 3, carbon 4, carbon 5 and aromatics as the support, four distinctive industrial chains of lithium synthetic rubber, caprolactam, epoxy resin and propylene oxide as the leading industries, and new energy, new materials and high-end chemicals as the extension, it has successively won six “national brands”, including the national high-tech industry base, the national torch plan characteristic industry base, the national new industrialization demonstration base, the national recycling transformation demonstration park, the national low-carbon industry pilot park, and the national new functional material cluster, and has been included in the trillion petrochemical industry cluster that Hunan Province focuses on developing and cultivating.



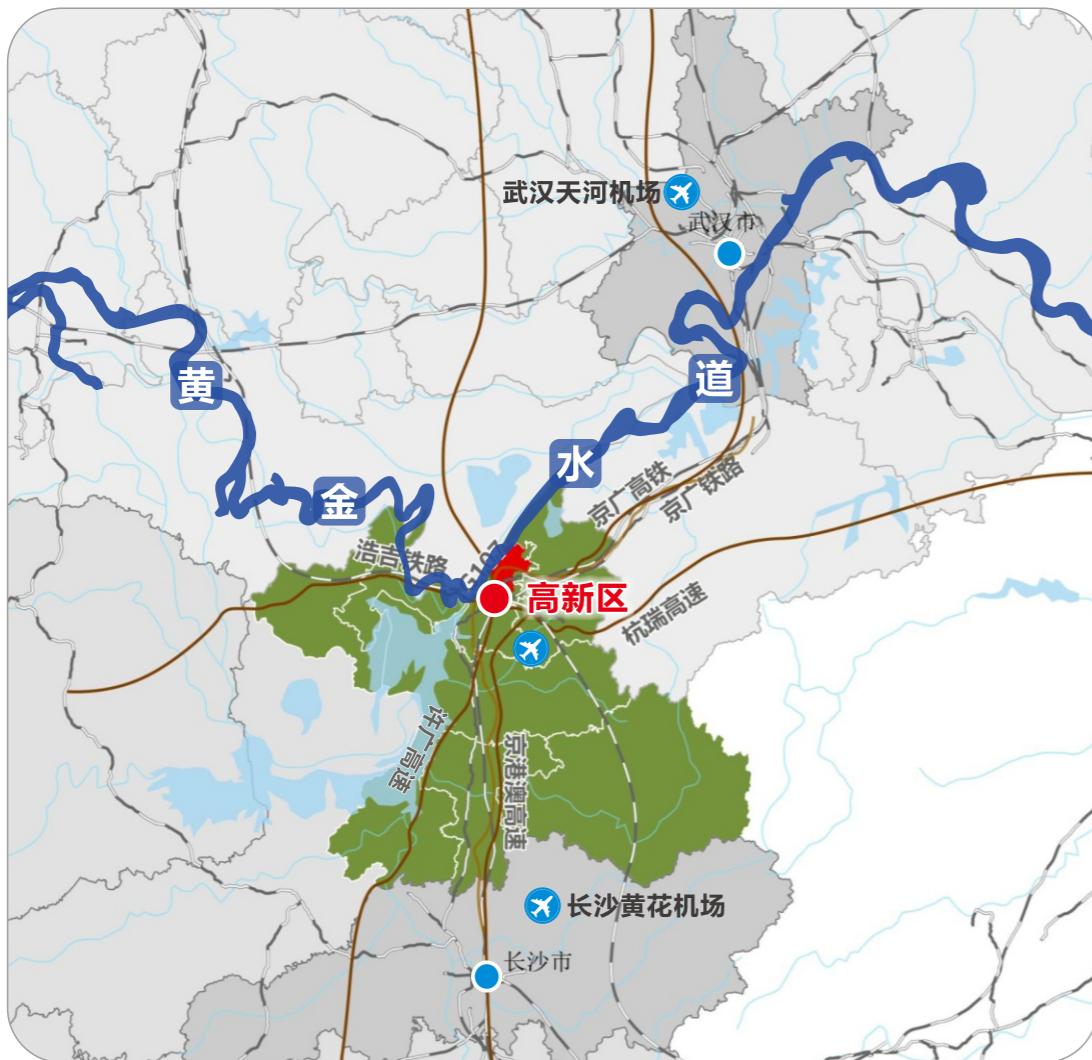
## 投资环境 INVESTMENT ENVIRONMENT

### 交通区位优势

#### SUPERIOR TRAFFIC LOCATION

高新区水、公、铁、空多式联运大交通格局已经实现，区位优势十分明显。

The Hi-tech Zone enjoys convenient waterway, highway, railway and aviation transportation linkage.



#### 水路 WATERWAY

紧邻湖南城陵矶新港，约10公里。该港是长江沿岸的中转型国际集装箱大港、国务院批准的启运港，国家一类开放口岸和湖南省唯一对外贸易口岸，已融入重庆-武汉-长沙-上海“四关联动”大通关体系，并与港澳台、东盟、澳大利亚等地区、国家有定期海运直达航线和远洋接力航线，5000吨级江海轮可常年进港作业，丰水季节万吨级海轮可直达港区。同时，拥有28公里的长江黄金岸线资源，沿线建有3000吨级以上码头12个，其中化工码头5个，泊位13个，化学品仓储基地5个，罐区库容达160万立方，有厂矿化学品管线26条。

It is 10 kilometers away from Chenglingji New Port in Hunan. It is a large international container port in transition along the Yangtze River, a departure port approved by the State Council, a national first class open port and the only foreign trade port in Hunan Province. It has been integrated into the “four customs linkage” customs clearance system of Chongqing Wuhan, Changsha and Shanghai, and has regular direct sea routes and ocean relay routes with Hong Kong, Macao, Taiwan, ASEAN, Australia and other regions and countries, 5,000 ton-level ships can reach the port all year round, and 10,000 ton-level ships can reach the port directly in wet seasons. There are 28 kilometers shoreline along the Yangtze River, 12 wharfs with a tonnage of more than 3,000 ton-level ships, including 5 chemical wharfs, 13 berths, 5 chemical storage bases, a tank farm with a storage capacity of 1,600,000 cubic meters, and 26 chemical pipelines for factories and mines.



#### 公路 HIGHWAY

京港澳高速、许广高速、杭瑞高速、107国道、S208、S209、S301等公路主干道在境内纵横交错。

Beijing Hong Kong Macao Expressway, Xuchang Guangzhou Expressway, Hangzhou Ruili Expressway, National Highway 107, S208, S209, S301 and other trunk roads crisscross the territory.



#### 铁路 RAILWAY

距岳阳东高铁站约14公里，境内已形成京广铁路、京广高速铁路、浩吉（蒙华）铁路“两纵一横”干线铁路运输网。其中，浩吉铁路从区内坪田站引出至南洋洲国家煤炭储备基地，实现了铁水联运。此外，区内有云溪和路口两个编组站，云溪片区和长岭片区均有园区支线联通，干线铁路运营里程达656公里。

It is about 14 kilometers away from Yueyang East High Speed Railway Station. There are Beijing Guangzhou Railway, Beijing Guangzhou High Speed Railway, Haoji (Inner Mongolia to Ji'an) Railway, etc. Among them, the Haoji Railway leads from Pingtian Station in the area to the Nanyangzhou National Coal Reserve Base, achieving rail water intermodal transportation. Besides, there are two marshalling stations in the area, Yunxi and Lukou. Yunxi District and Changling District are connected by branch lines in the park. The operating mileage of trunk railway is 656 kilometers.



#### 航空 AVIATION

距岳阳三荷机场20公里，已开通23条航线，通达全国31个航点。同时，距长沙黄花机场、武汉天河机场等国际大型机场不超过2小时车程。

It is about 20 kilometers from Yueyang Sanhe Airport, with 23 routes opened to 31 destinations nationwide. At the same time, it is not more than 2 hours' drive from Changsha Huanghua Airport, Wuhan Tianhe Airport and other large international airports.

# 产业基础雄厚

STRONG INDUSTRIAL  
FOUNDATION

## 1 产业资源

SOLID INDUSTRIAL  
FOUNDATION

全球最大、品种最全的锂系合成橡胶研发生产基地 The world's largest lithium synthetic rubber R&D and production base with the most complete varieties
全球最大的乙酸仲丁酯研发生产基地 The world's largest R&D and production base of sec-Butyl acetate
全球首套环保型环氧氯丙烷工业生产装置 The world's first environment-friendly epichlorohydrin industrial production unit
全球单套规模最大、技术水平最高的己内酯绿色全生物降解材料装置 The world's largest single set of caprolactone green fully biodegradable material device with the highest technical level
亚洲规模最大、品种最全的炼油催化剂研发生产基地 Asia's largest refining catalyst R&D and production base with the most complete varieties
中国最大的己内酰胺、聚酰胺研发生产基地 China's largest caprolactam and polyamide R&D and production base
中国产能最大、品种最全的环氧树脂研发生产基地 China's largest epoxy resin R&D and production base with the most complete varieties
中国产能最大、品种最全的双氧水生产基地 China's largest hydrogen peroxide production base with the most complete varieties
中国最大的高分子防水材料生产基地 China's largest polymer waterproof material production base
中国规模最大品种最全特种胺新材料产品生产基地 China's largest special amine new materials with the most complete varieties
中国首套10万吨/年双氧水法制环氧丙烷生产装置 China's first 100,000 tons/year hydrogen peroxide based propylene oxide production unit
中国首套液体碳化硅陶瓷前驱体规模化生产装置 China's first large-scale production device for liquid silicon carbide ceramic precursors



## 2 产品资源

PRODUCT  
RESOURCES

作为岳阳第一个千亿产业，石化产业在带动岳阳发展中起到举足轻重的作用，并为岳阳有别于全省乃至全国其他区域的创新发展提供了基础材料优势。

As the first ten billion yuan industry in Yueyang, the petrochemical industry plays a crucial role in driving its development and provides basic material advantages for Yueyang's innovative development, which sets it apart from other regions in the province and even the whole country.

<b>炼油1000万吨/年</b> <b>乙烯100万吨/年</b> <b>己内酰胺60万吨/年</b>  Oil refining 10,000,000 tons/year Ethylene 1,000,000 tons/year Caprolactam 600,000 tons/year	<b>环氧丙烷40万吨/年</b> <b>环氧树脂30万吨/年</b> <b>锂系合成橡胶 38万吨/年</b>  Epoxy propane 400,000 tons/year Epoxy resin 300,000 tons/year Lithium based synthetic rubber 380,000 tons/year	<b>LLDPE40万吨/年</b> <b>EVA30万吨/年</b> <b>HDPE40万吨/年</b>  LLDPE 400,000 tons/year EVA 3,000,000 tons/year HDPE 400,000 tons/year
<b>二甲苯45万吨/年</b> <b>聚酰胺切片15万吨/年</b> <b>聚丙烯16万吨/年</b> <b>丙酮7万吨/年</b>  Xylene 450,000 tons/year Polyamide chips 150,000 tons/year Polypropylene 160,000 tons/year Acetone 70,000 tons/year	<b>双氧水32万吨/年</b> <b>乙酸仲丁酯30万吨/年</b>  Hydrogen peroxide 320,000 tons/year Secondary butyl acetate 300,000 tons/year	
	<b>石油焦40万吨/年</b> <b>乙烯焦油7万吨/年</b> <b>炼油和化工催化剂10万吨/年</b>  Petroleum coke 400,000 tons/year Ethylene tar 70,000 tons/year Refining and chemical catalysts 100,000 tons/year	<b>二氧化碳500万吨/年</b> <b>芦苇120万吨/年</b>  Carbon dioxide 5,000,000 tons/year Reeds 1,200,000 tons/year

## 科研力量聚集

GATHERING OF SCIENTIFIC  
RESEARCH FORCES

### 1 人才培养 TALENTS TRAINING

全市有本科院校2所、中高职院校29所，年培养石化类本科及硕士研究生400余人、专业技工近3000人。区内建有中南地区唯一一所“石化”冠名的高职院校，并已建成2个国家级培训基地，6个省部级培训基地，培训规模达到每年24000余人次。与企业共建现代化产业学院，可为企业开展委托培养班、订单班、卓越工程师班等人才精准培养。

There are 2 undergraduate colleges and 29 middle schools and vocational colleges in the city, with an annual training of 400 petrochemical graduates and postgraduates and nearly 3,000 professional technicians. The Hi-tech Zone has the only professional technique college named with petrochemical in Central South area, and has constructed 2 national training bases, 6 provincial training bases, able to provide such 6 kinds of professional skills training as safe production, professional management, professional skills and skill promotion. The annual training is up to 24,000 persons. Collaborating with enterprises to build a modern industrial college, precise talent training for enterprises can be provided, including commissioned training classes, order classes, and excellent engineer classes.

### 2 中试基地 PILOT EXPERIMENT BASE

拥有湖南省苯乙烯类热塑性弹性体材料中试平台、湖南省化工催化材料中试平台、湖南省石油化工催化工程科技成果转化中试基地，近8万平方米的中试孵化基地可为企业及可研院所的小试技术提供中试研发服务，加速小试成果的转化。

We have a provincial pilot platform for styrene based thermoplastic elastomer materials, a provincial pilot platform for chemical catalytic materials, and a provincial pilot base for the transformation of scientific and technological achievements in petrochemical catalytic engineering. A pilot scale incubation base of almost 80,000 square meters is constructed, able to provide pilot R&D services for enterprises and academies, hence to promote the conversion of pilot achievements.



### 3 创新平台 INNOVATION PLATFORM

高新区拥有强大的创新引擎支撑，包含石化新材料与资源精细利用国家地方联合工程实验室等国家级研发平台5个、湖南省热塑性弹性体技术创新中心等省级研发平台16个、王基铭院士领衔的湖南省石化新材料院士专家工作站等5家和中石化长岭炼化化工有限责任公司催化剂厂博士后科研工作站等7家。同时，联合国内各高校及科研院所成立了现代石化协同创新研究院，致力于开展技术攻关，成果转化和人才引进工作。

The Hi-tech Zone has strong innovation engine support, including 5 national level research and development platforms such as the National Local Joint Engineering Laboratory for Fine Utilization of Petrochemical New Materials and Resources, 16 provincial research and development platforms such as Hunan Thermoplastic Elastomer Technology Innovation Center, 5 Hunan Petrochemical New Materials Academician Expert Workstations led by Academician Wang Jiming, and 7 postdoctoral research workstations at the Catalyst Plant of Sinopec Changling Refining and Chemical Co., Ltd. At the same time, jointing with various national universities and research institutes, we have established the Modern Petrochemical Collaborative Innovation Research Institute, dedicated to carrying out technological research, achievement transformation, and talent introduction.

### 4 科研成果 SCIENTIFIC ACHIEVEMENTS

拥有授权专利 500 多项，已开发锂系合成橡胶（SBS、SIS、SEBS、SEPS、SIBS、SSBR）成套生产技术、氨肟化成套技术、酯化加氢制环己酮、浆态床蒽醌法制高浓度双氧水成套技术、环保型环氧氯丙烷新工艺技术、双效灵活催化技术、双氧水法制环氧丙烷技术等二十多项先进的炼油、化工成套技术，已内酯单体关键技术的研发与产业化突破了国内卡脖子难题。

We have over 500 authorized patents, have developed more than 20 advanced oil refining and chemical complete technologies, including lithium based synthetic rubber (SBS, SIS, SEBS, SEPS, SIBS, SSBR) production technology, ammonia oximation technology, esterification hydrogenation to cyclohexanone, slurry bed anthraquinone method high concentration hydrogen peroxide technology, environmentally friendly epichlorohydrin new process technology, dual effect flexible catalytic technology, hydrogen peroxide method epichlorohydrin technology, etc. The research and industrialization of key technologies for caprolactone monomers have broken through domestic bottlenecks.



## 惠企政策支持

FAVORABLE ENTERPRISE  
POLICY FOR SUPPORT

- 1** 对年实际缴纳税收（不含退税和抵扣）在1000万元—2000万元（含2000万元）的企业，奖励企业法定代表人3万元；2000万元—3000万元（含3000万元）的企业，奖励企业法定代表人5万元；3000万元以上的企业，奖励企业法定代表人8万元。

For enterprises with actual annual tax payments (excluding tax refunds and deductions) ranging from 10,000,000 to 20,000,000 yuan (including 20,000,000 yuan), a reward of 30,000 yuan will be given to the legal representative of the enterprise; Enterprises with a value ranging from 20,000,000 to 30,000,000 yuan (including 30,000,000 yuan) will be rewarded with a legal representative of 50,000 yuan; Enterprises with a value of over 30,000,000 yuan will be rewarded with a legal representative of 80,000 yuan.

- 2** 人才政策参照岳阳市“人才新政45条”。如“12+1”优势产业链企业新引进的国际顶尖人才、国家级产业领军人才、省级产业领军人才、市级产业领军人才，分别给予200万元、150万元、100万元和50万元的安家补贴。

The talent policy refers to “45 items of new policies for talents” in Yueyang City. International top talents, national level industry leading talents, provincial level industry leading talents, and municipal level industry leading talents newly introduced by enterprises in the “12+1” advantageous industrial chain will receive resettlement subsidies of 2,000,000 yuan, 1,500,000 yuan, 1,000,000 yuan, and 500,000 yuan respectively.

- 3** 鼓励企业申报专利。对当年通过授权获得的有效发明专利，每件奖励1.5万元；对当年成功申请的PCT（专利合作条约），每件奖励5万元。

Encouraging enterprises to apply for patents. Reward 15,000 yuan per valid invention patent obtained through authorization in the current year; For PCT (Patent Cooperation Treaty) successfully applied for that year, a reward of 50,000 yuan will be given for each item.

- 4** 鼓励企业建设“双创”平台。对新认定的国家级、省级技术创新中心、企业技术中心、行业创新中心、新型研发机构、重点实验室等科技创新平台，分别给予200万元、50万元奖励。

Encouraging enterprises to build “double innovation” platforms. Newly recognized national and provincial technology innovation centers, enterprise technology centers, industry innovation centers, new research and development institutions, key laboratories and other scientific and technological innovation platforms will be rewarded 2,000,000 yuan and 500,000 yuan respectively.

- 5** 高新区设立的绿色化工产业基金可为企业提供股权投资、融资服务，信贷风险补偿金可为企业提供担保服务，供应链公司可为企业提供赊销采销服务。

The Green Chemical Industry Fund established in the Hi-tech Zone can provide equity investment and financing services for enterprises, credit risk compensation funds can provide guarantee services for enterprises, and supply chain companies can provide credit sales and procurement services for enterprises.

- 6** 行政审批权限下放至园区，设立“园区事园区办”窗口，成立“帮代办”团队，对入园企业实行手续全程“帮、代、办”服务。

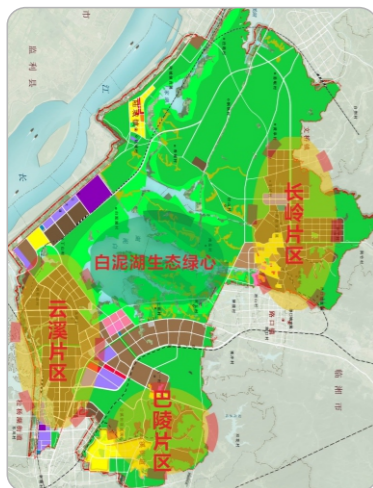
Administrative approval authority is delegated to the park, a “park affairs be done in park office” window is established, and a “assistance agency” team is established to provide full process “assistance, agency, and handling” services for enterprises entering the park.

# 要素保障 ELEMENT GUARANTEE

## 1 供地 LAND SUPPLY

高新区现有工业建设用地的规划面积29.48平方公里，拟扩区24平方公里，三类化工用地储备充足。

The planned area of industrial construction land in the Hi-tech Zone is 29.48 square kilometers, with a planned expansion of 24 square kilometers. The reserve of Class III chemical land is sufficient.



## 3 供电 POWER SUPPLY

区内有总装机容量为252.5万千瓦的华能电厂，有110KV变电站7座、220V变电站2座，3个动力中心，可实现双回路不间断供电。大工业用电价格为0.65元/度。

There are Huaneng Power Plant with a total installed capacity of 2.525 million kilowatts, 7 110KV substations, 2 220V substations and 3 power centers in the area, which can realize the uninterrupted power supply of double circuits. The electricity price for large industry is 0.65 yuan/kWh.



## 2 供水 WATER SUPPLY

高新区生产用水取自长江、双花水库、龙源水库，供水能力为80万吨/天，价格为2.6元/吨；生活用水取自铁山水库、龙源水库I类优质水源，供水能力为8万吨/天，价格为3.68元/吨。

The production water in the Hi-tech Zone is taken from the Yangtze River, Shuanghua Reservoir and Longyuan Reservoir, with a water supply capacity of 800,000 tons/day and a price of 2.6 yuan/ton; Domestic water is from Tieshan Reservoir and Longyuan Reservoir Class I high-quality water source, with a water supply capacity of 80,000 tons/day and a price of 3.68 yuan/ton.



## 4 供热 HEAT SUPPLY

华能电厂、湖南石化可为区内企业提供1.0MPa和3.5MPa的蒸汽服务，供汽能力为240吨/小时，根据用量实行230-270元/吨的阶梯价格。

Huaneng Power Plant and Hunan Petrochemical can provide 1.0 MPa and 3.5 MPa steam services for enterprises in the area. The steam supply capacity is 240 tons/hour, and the stepwise price of 230-270 yuan/ton is implemented according to the consumption.



## 5 供气 AIR SUPPLY

华润燃气可为区内企业提供天然气服务，供气能力为4亿标立方/年。大客户及优质客户在现行市场价格上实行特别优惠价格。

China Resources Gas can provide natural gas services for enterprises in the area. The gas supply capacity is 400,000,000 standard cubic meters per year. Special preferential prices on the current market price are available for major customers and high-quality customers.



## 6 污水处理 SEWAGE TREATMENT

区内现有湖南石化污水处理厂、催化剂长岭分公司污水处理厂、广华污水处理厂等6座，处理能力3200吨/小时。处理价格为15-17元/吨。

There are six sewage treatment plants in the area, including Hunan Petrochemical Sewage Treatment Plant, Catalyst Changling Branch Sewage Treatment Plant, and Guanghua Sewage Treatment Plant, with a processing capacity of 3,200 tons/hour. The processing price is 15-17 yuan/ton.



## 空间规划

SPATIAL PLANNING

### 规划布局 “一园三片”

PLANNING AND LAYOUT OF “ONE PARK AND THREE AREAS”

#### 长岭片区 (12平方公里)

Changling Area (12 km<sup>2</sup>)

##### 以布局乙烯炼化一体化产业为主

Focusing on the layout of the integrated ethylene refining and chemical industry



#### 云溪片区 (9.93平方公里)

Yunxi Area (9.93 km<sup>2</sup>)

##### 以布局精细化工及化工新材料为主

Focusing on the layout of fine chemicals and new chemical materials

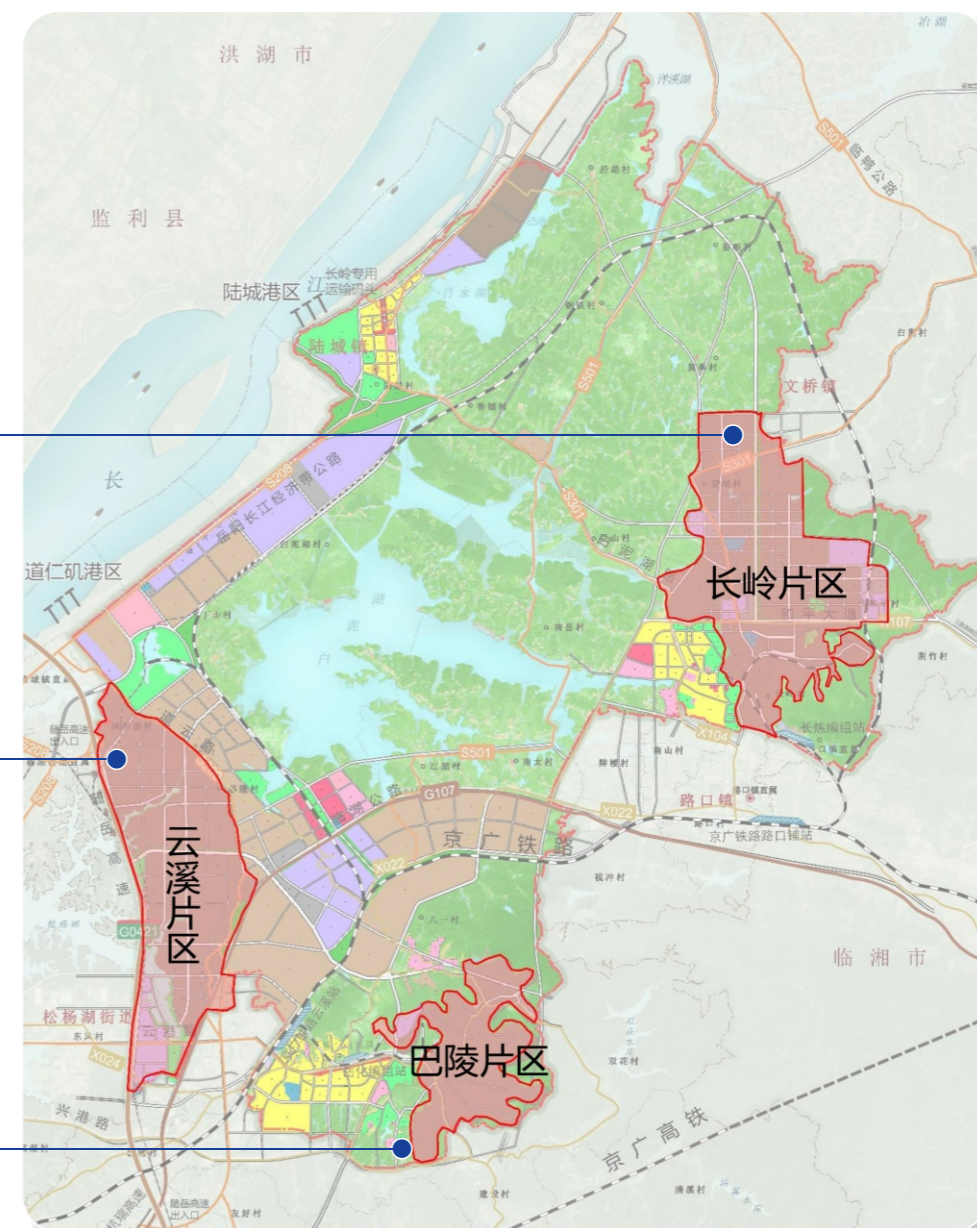


#### 巴陵片区 (7.55平方公里)

Baling Area (7.55 km<sup>2</sup>)

##### 以布局环氧树脂、锂系合成橡胶等新材料产业为主

Focusing on new material industries such as epoxy resin and lithium synthetic rubber



产业规划  
INDUSTRIAL  
PLANNING

产业链全景图  
PANORAMA OF HI-TECH  
ZONE INDUSTRIAL CHAIN

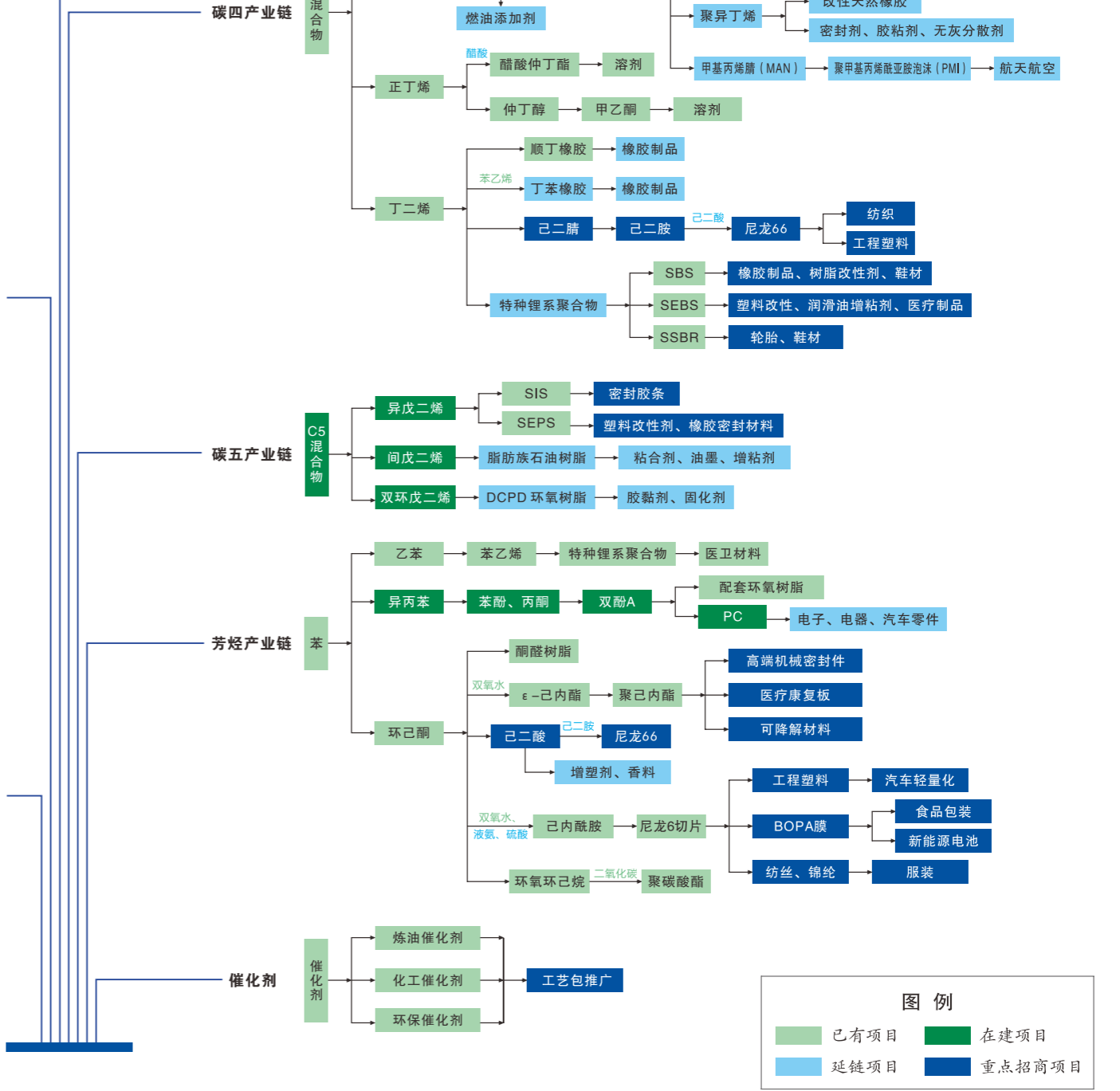
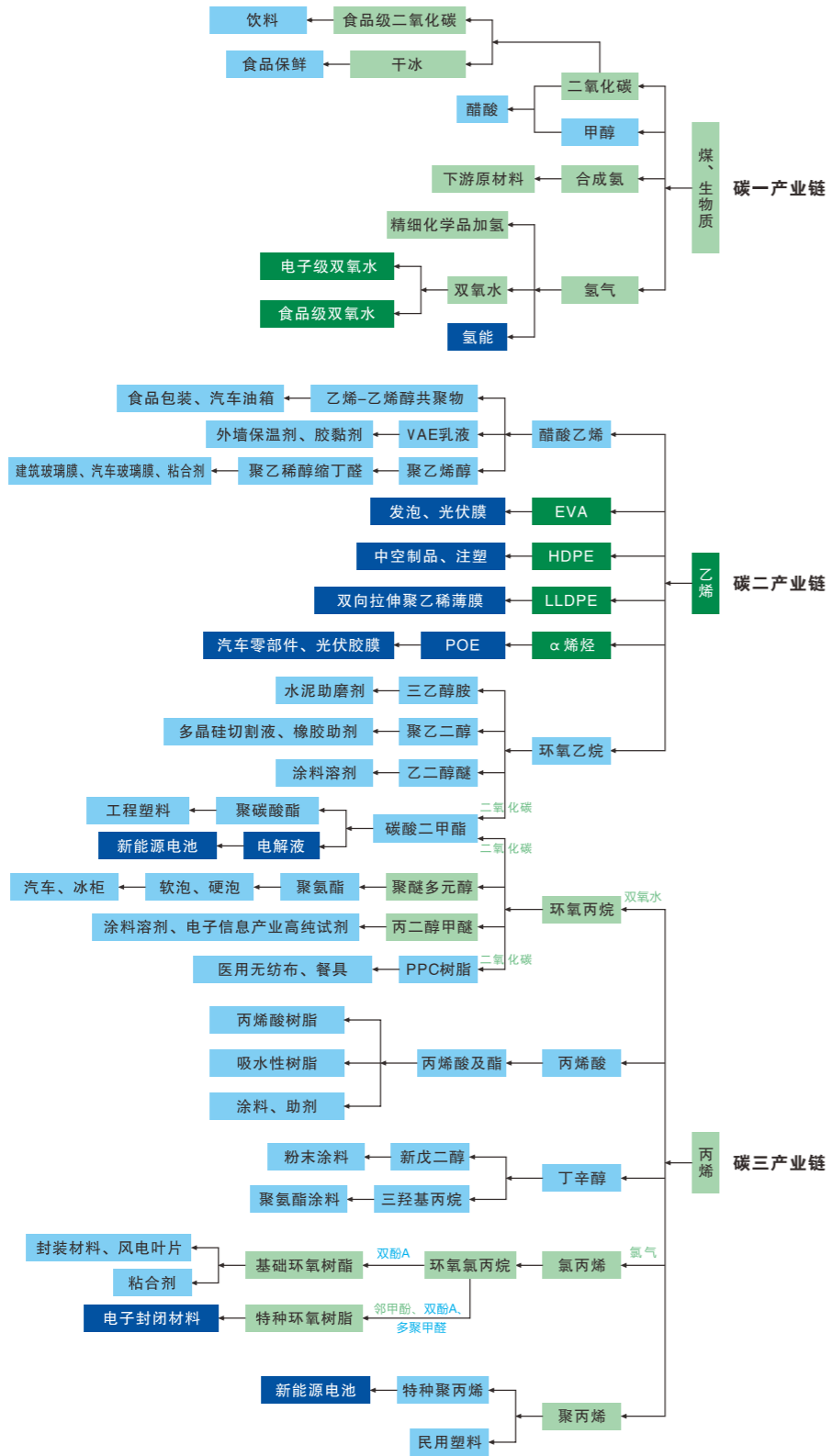


图 例

- 已有项目
- 在建项目
- 延链项目
- 重点招商项目