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# **Shanghai Chemical Industry Park (SCIP)**

Shanghai Chemical Industry Park (SCIP) is a state-level economic and technological development zone dominated by petrochemical industry, as well as one of the "Seven Major Petrochemical Industry Bases" planned by the State Council. Located at the north shore of Hangzhou Bay, SCIP has formed circular economic industry chain started with ethylene and established high-end industrial clusters featuring chemical new materials, which has become a specialized chemical industry park with many well-known international chemical enterprises, highly correlated industrial product chains and advanced circular economy.

Basing on new development stage and implementing new development ideologies, SCIP actively embraces national strategy and municipal plan, and dedicates itself to promoting the in-depth merger of petrochemical industry with "dural carbon" target, science and technology innovation and digital transformation. It is devoted to constructing green chemical industry clusters, Shanghai International Chemical New Materials Innovation Center, Shanghai Electronic Chemicals Special Zone and smart chemical industry park, aiming to build a world-class petrochemical production base and circular economy model.

#### **Main Honors**



CHEM-Park for years

Demonstration Park



National Low-carbon ndustry Pilot Park



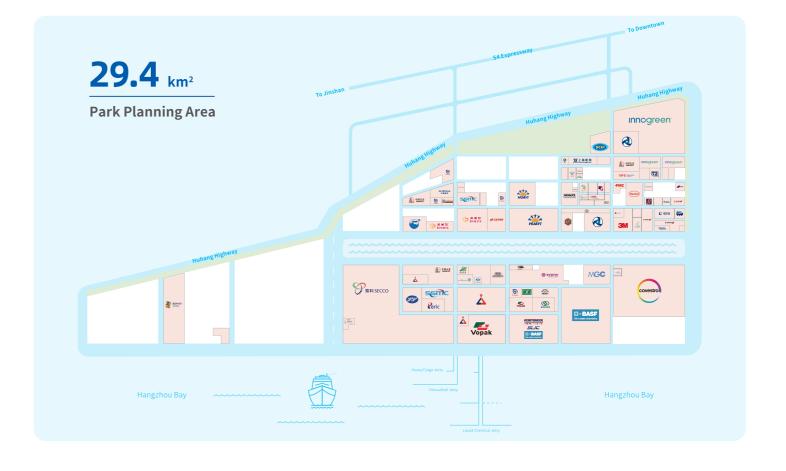
Best Organization for Responsible Care of Chinese Petroleum and Chemical Industry



National Novel Industry Demonstration Park



Chinese Smart Chemical Industry Demonstration Park



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# **Traffic & Location**



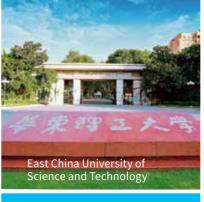




# **30 Minutes Life Circle**



**Transportation** 











**Education** 



**Entertainment** 





















# Milestones

Covestro (former Bayer) Integrated Site Construction Started

Emergency Response Center Inaugurated

2004

Jinshan and Fengxian Sectors Incorporated Into Integrated Management

2009

Establishment of SCIP Responsible Care Working

2016

2019

Ground-Breaking of **Innovation Center** 

Approval for Establishment of Shanghai Electronic Chemicals Special Zone

2022

Promotion of SCIP

Nylon Integrated

**Production Base** 

2020

2001

1996

2002

Approval of "SCIP General

2005

2014

Designated as One of the "Seven Major Petrochemical

















# **Sustainable Development Mode**





#### **Green and Low-carbon**

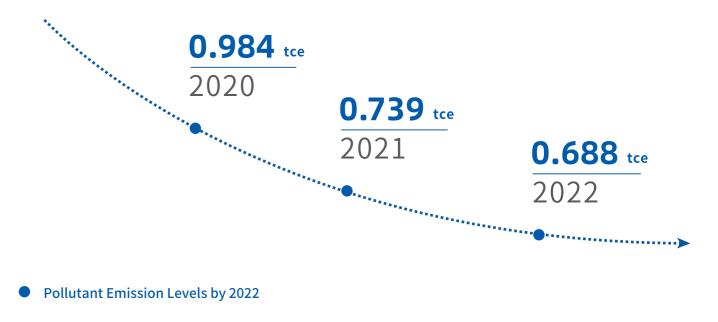
Clean energy, low-carbon raw materials, functional materials, and efficient processes

#### **Circular Economy**

Build a resource recycling industry system and improve the utilization level of renewable resources

# **Sustainable Ecosystem**

Comprehensive Energy Consumption Keeps Declining



 $\frac{5 \mu g/m^3}{SO_2} \frac{32 \mu g/m^3}{NO_2}$ 

 $\frac{28~\mu g/m^3}{PM2.5}$ 

 $\frac{\textbf{51.9}~\mu\text{g/m}^3}{\text{VOCS}}$ 







Development Data (2022)

Enterprises

Fortune 500

Top 50 Chemical Firms by ACS

\$30.6 Billion

¥ 145.4 Billion Sales

¥ 8.5 Billion

Profit

**Total Investment** 

¥ 12.75 Billion/km<sup>2</sup>

**Unit Investment Intensity** 

¥13.28 Billion/km²

**Unit Output Value** 

## **New Materials Industrial Cluster**



- Polyurethane Products Chain
- **Polycarbonate Products Chain**
- Nylon 66 Products Chain
- Synthetic Rubber Products Chain
- Synthetic Resin Products Chain









RÖHM









# **High-end Specialty Chemicals**



- **Electronic Chemicals**
- **High Performance Adhesives**
- **High Performance Additives**
- **High-end Green Paint**
- High-end Reagents





















# **Abundant Raw Materials**

Pro	duction Capa	acity (10 thous	sand tons/yr)			
Ethy	ylene :	119	Propylene	73	Butadiene	18
Isob	outene :	17	Aromatic Hydrocarbon	60	Styrene	71
Acry	ylonitrile !	52	Phenol/Acetone	62.4/37.6	Acrylic acid and Acrylate	32
NaO	)H	72	Dichloroethane (EDC)	72		







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# **Creating an Open Innovative Ecosystem**

# Innogreen 创新绿洲

Surrounding INNOGREEN, SCIP aims to create a professional, open, shared, and coordinated innovation ecosystem centered on the key areas and links of technological research and development in chemical new materials, including small-scale trials, pilot trials, and achievement transformation. It plans to attract functional platforms for scientific and technological innovation carriers and innovative enterprises, and produce leading technological achievements and innovative products.

# **Sharing Resources with Innovative Partners**



# **Establishing Multi-chain Innovation System**

# Service Chain Industry Chain Capital Chain Policy Chain





## **Professional Public Utilities**

**Co-generation** 

Steam 990 t/h

Industry Water 300,000 t/d Potable Water 7,000 t/d Demineralized Water 1,960 t/d

**Water Supply** 

**Waste Water** Treatment

Bio Treatment Capacity 44,000 t/d

Hazardous **Waste Treatment** 

160,000 t/d

**Industrial Gases** 

H<sub>2</sub>: 239,000 M<sup>3</sup>/H CO: 86,000 M<sup>3</sup>/H O<sub>2</sub>: 80,000 M<sup>3</sup>/H N<sub>2</sub>: 240,000 M<sup>3</sup>/H Pipe Rack

constructed 27Km

**Tank Farm** 

constructed 750,000 M<sup>3</sup>

Jetty

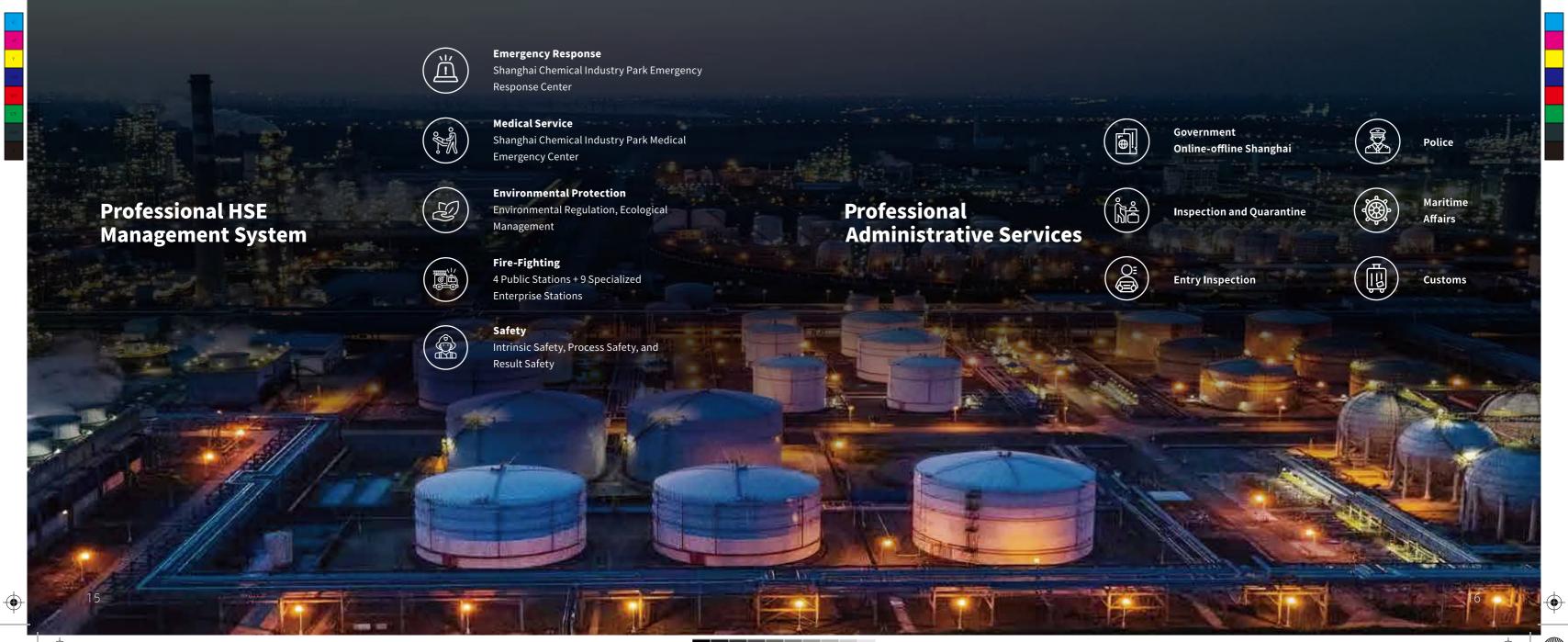
Liquid Chemical Jetty 50,000 DWT\*4 30,000 DWT\*1 20,000 DWT\*4 5,000 DWT\*13

Bulk Chemical Jetty 20,000 DWT\*1

**Hazardous Chemicals** Warehouse

Class A 6,000 M<sup>2</sup> Class B 11,400 M<sup>2</sup> Class C 53,000 M<sup>2</sup> Hazardous Chemical Warehouse Under Construction

Calss A 16,500 M<sup>2</sup> Calss B 4,000 M<sup>2</sup> Calss C 22,500 M<sup>2</sup>











# **Key Development Orientations**

#### New Generation of IT

Electronic Chemicals and Supporting Materials Special Engineering Materials Organic Photoconductive Materials

#### Bio-pharmaceuticals

Advanced API and Formulation Key Consumables

#### **Advanced Equipment** Manufacturing

Special Elastomer High-performance Engineering Plastics Special Fiber & Composite Materials

#### Clean Energy

Comprehensive Utilization of Hydrogen Energy R&D of New Energy Efficient Energy Storage Materials

#### **New Energy Automobiles**

New Electrode Materials Special Membrane Materials Functional Polymer Materials

#### **Energy Saving & Carbon Reduction**

Green Low-carbon Materials Chemical Recycling Materials

# **Creating the Future with SCIP**



















# **Shanghai Electronic Chemicals Special Zone**

# **Background**



Serving National Strategy, Maintaining Stable Supply-Chain



Coordinated Development, Reinforcing Weak Links of Industrial Chain



Industrial Upgrading, Development of Higher Quality

# **Planning Layout**

Basing in Shanghai, Supporting Yangtze Delta, Serving the Nation





SCIP (including Fengxian and Jinshan sectors) Professional Layout, Concentrated Development, Planning Area of about 2 km²

### **Milestones**

2020.7.30 Approval of Special Zone Master Plan by Municipal Government, 2020.12.3 Establishment of Special Zone

Designated as a Shanghai Characteristic **Industry Park** 

2023.1.9 Approval of 3-Year Action Plan





















# **Positioning**

**Establish Three Bases of Electronic Chemicals** 



**Domestic Production** 



R&D



**Logistics & Storage Trading Platform** 

## **Key Development Targets**

**Widest Coverage of Supplies; Highest Concentration of Top Enterprises; Best Capability for Innovation** 



#### By 2025 (end of fourteenth five-year)

70% of products developed, produced and stored in Shanghai Electronic Chemicals Special Zone, with increased number of domestic production enterprises, becoming leading electronic chemical base in China



#### By 2030 (end of fifteenth five-year)

90% of products developed, produced and stored in Shanghai Electronic Chemicals Special Zone, focusing on both domestic production and independent innovation, becoming a globally competitive electronic chemical base

# **Enterprises**











