

China Industrial Carbon Emission Information System  
2022 Annual Report



Annual Report

2022

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# Significance of CICES

Combat against climate change and prevention against further environmental deterioration has become a global consensus. Developed countries and regions such as EU have taken the lead in pushing ahead with climate neutrality via promulgation of standards, rules, and environmental laws, etc., which guides a new round of global rulemaking against climate change. China has successively issued “Carbon Peaking, Carbon Neutrality” implementation plans and a series of supportive measures for key sectors and industries, and established the “1+N” policy system for carbon peaking and carbon neutrality, in an effort to realize carbon peaking by 2030 and carbon neutrality by 2060.

From the perspective of life cycle, establishment of specific site data system on carbon emission of local supply chain is regarded as the prerequisite for Chinese industrial enterprises to take part in new international trade competition centering on carbon emission and to shatter trade barriers. Since specific site data are globally recognized, we need to establish strong specific site data. Only by doing so can we ensure Chinese industrial enterprises’ carbon emission data are globally recognized. In addition, specific site data serve as the data foundation for industrial enterprises’ statistical accounting of product carbon footprint, goal setting, assessment of emission reduction scheme, and quantification of emission reduction achievement. Lack of specific site data means it’s impossible to make corporate planning. However, a series of problems on the supply chain, including numerous subjects, long flow, redundant links, high complexity, and much difficulty in coordination, hinder orderly implementation of carbon emission reduction in the industrial sector.

# Launching of CICES

To effectively promote the industrial sector's IT-based management over carbon emission data of different links and different levels of products in the supply chain, build specific site data system for carbon emission of Chinese local supply chain, remarkably improve industrial enterprises' carbon emission management level, and push ahead with international mutual recognition based on "Specific Site Data First" principle, China Industrial Carbon Emission Information System (CICES) comes into being.



|  
2021  
**04/20**

Brought forth the concept of CICES for the first time



|  
2021  
**05/26**

Solicited opinions on construction of CICES at the first meeting

《Product Carbon Emission Data Submission Procedure 2021-1》

For test in public

2021  
**07/27**





Solicited opinions on construction of CICES at the second meeting

Signed the Proposal for Co-construction of Carbon Emission Data System of the Automotive Industrial Chain in conjunction with 20 institutions

2021  
09/10

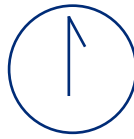
2021  
10/12

2021  
12/18

2021  
12/23

CICES test account was open for registration, and 41 institutions took part in testing and put forward opinions

Launching of CICES& Ceremony for Establishment of the Management Committee took place in Beijing



On December 23, 2021, Launching of CICES& Ceremony for Establishment of the Management Committee was successfully held in Beijing, and reported by CCTV.



**Wu Zhixin**

Member of Party Committee and Vice General Manager of China Automotive Technology and Research Center Co., Ltd.



**Feng Gang**

Vice General Manager of Automotive Engineering Research Institute of Chongqing Changan Automobile Company Limited



**Li Minghuan**

Chief Engineering of Quality Inspection Center of Technical Center, Dongfeng Motor Corporation



**Lan Bo**

Deputy Head of Quality Management Department of Product Management Center, GAC Group



**Ma Chuang**

Director of Strategic Management Department of Strategy and Cooperation Division, China FAW Group Corporation



**Zhou Dayong**

Director of Engineering Center, Geely Automobile Research Institute (Ningbo) Co., Ltd.



**Luo Man**

Senior Director of Administration and Planning & Development Department, Changan Ford Automobile Co., Ltd.



**Liu Ying**

Vice President of Government Affairs Department, Volvo Car (Asia Pacific) Investment Holding Co., Ltd.



**Liu Bin**

Manager of Product R & D and Vehicle Integration & Testing Department, Shanghai Volkswagen Automotive Co., Ltd.



**Lin Xiaowei**

GM Assistant of GAC AION



**Li Qian**

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**Yasumasa Akiyama**

Vice Director of Beijing R & D Department, Nissan Group of China



**Shen Feng**

Executive Vice President of NIO Co., Ltd.



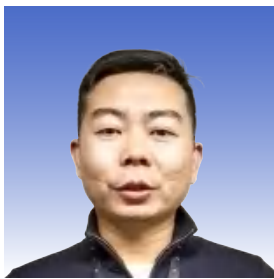
**Wang Jiang**

Senior Director of Test Regulation Certification Department, NIO Co., Ltd.



**Wang Xiaojian**

Director of Technical Management Department, SAIC Motor Corporation Limited



**Zhang Fengbo**

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**Zeng Yicong**

Head of Safety and Environmental Protection Department, GAC Honda Automobile Co., Ltd.



**Gu Jianmin**

CTO of Valeo China



**Sun Li**

President of Research Institute, Novelis (China) Aluminum Products Co., Ltd.

Establishment of the management committee



# Development of CICES

Thanks to support from CICES Management Committee units, joint proposal units, and working group units, China Industrial Carbon Emission Information System saw rapid development in 2022.

## /08

14 automakers have joined CICES

## /09

Number of supply chain enterprises exceeds 800

## /10

Product varieties in the database exceeds 1800

## /11

More than 6,000 person-times of trainees have joined CICES public welfare training

## /13

CICES promotes further improvement of corporate carbon data management level

## /14

Corporate life cycle carbon emission accounting toolkit comes into being

## /15

Working Group on deep de-carbonization of the automotive industry is founded



# 「1」 14 automakers have joined CICES



A total of 14 automakers joined CICES, and they are CHANGAN, DFM, CHERY, GAC Group, Great Wall Motors, Li Auto, XPeng, FAW Volkswagen, CHANGAN Ford, Dongfeng Nissan, SAIC Volkswagen, SGMW, PATAQ, and GAC Honda.

「2」

## Number of supply chain enterprises exceeds 800

Domestic and overseas well-known supplier enterprises (including DENSO, Magna, Continental, ZF, Fuyao, HASCO, and CATL) joined CICES, making the number of supply chain enterprises exceed 800.

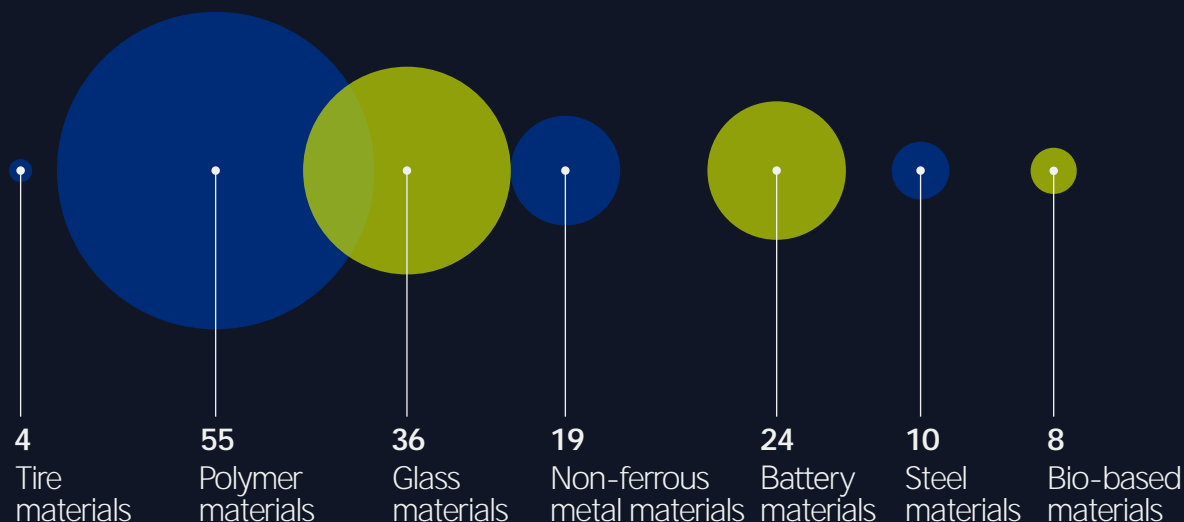


「3」

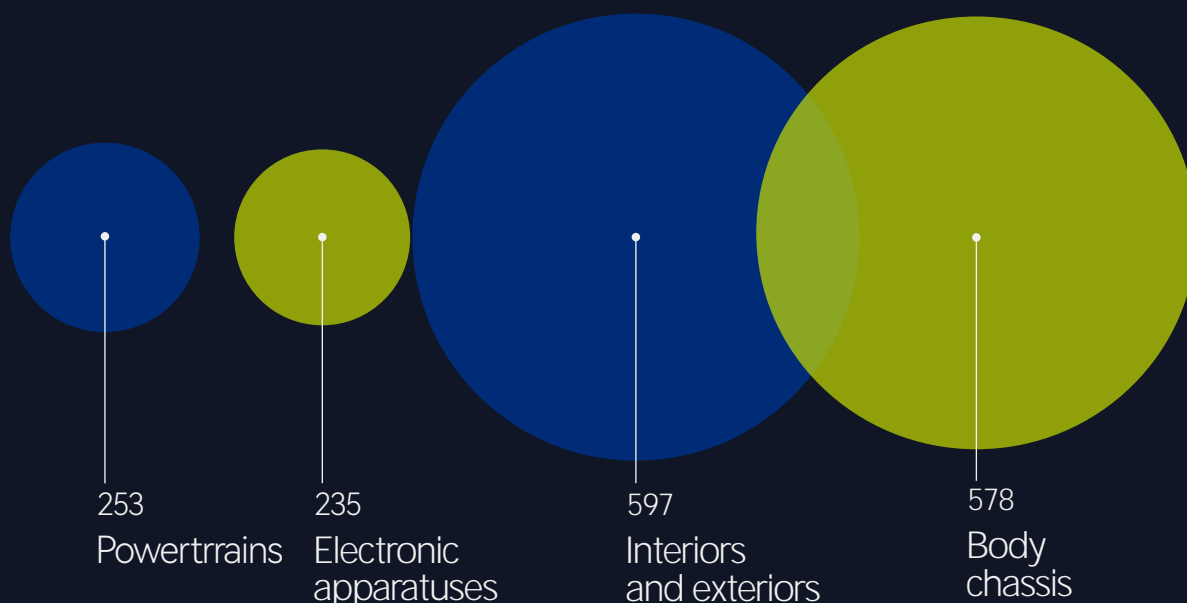
## Product varieties in the database exceeds 1800

Products in CICES database cover 156 varieties of vehicle materials (including iron materials, non-ferrous metal materials, polymer materials, glass materials, tire materials, bio-based materials, and battery materials) and 1663 varieties of parts and components (including powertrain, body chassis, interiors & exteriors, and electronic apparatuses).

Number of materials in CICES database



Number of parts and components in CICES database



「4」

## More than 6,000 person-times of trainees have joined CICES public welfare training

The Energy Saving and Green Development Assessment Center for Automotive Industry has organized a total of 9 industrial public trainings and 20-plus special corporate trainings. More than 1,600 enterprises and 6000-plus person-times of trainees partook in the trainings. As a result, 5 training materials have been made.

Industrial public training

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9

Special corporate training

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20<sup>+</sup>

Enterprises in the training

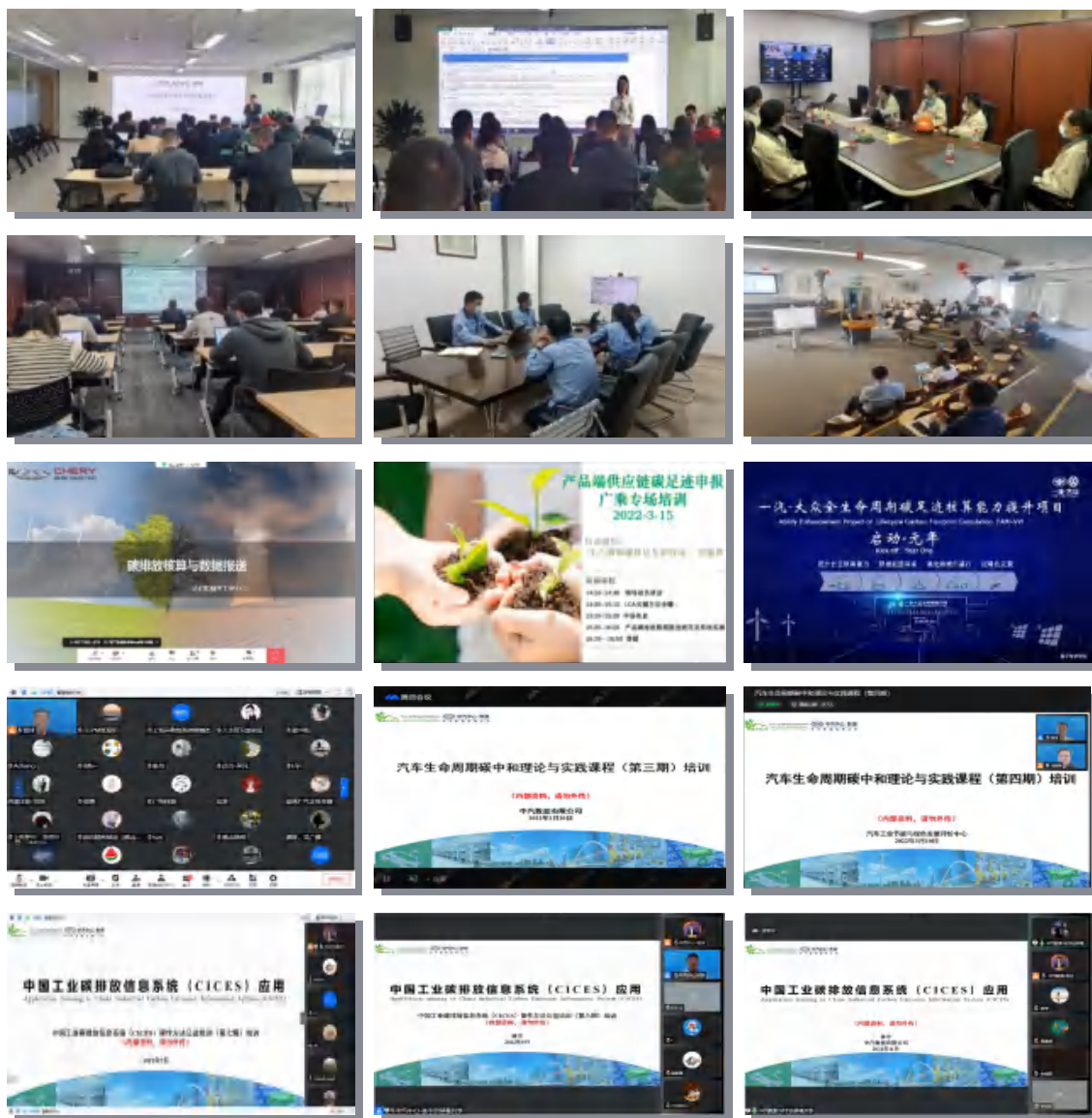
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1600<sup>+</sup>

Person-times of trainees

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6000<sup>+</sup>

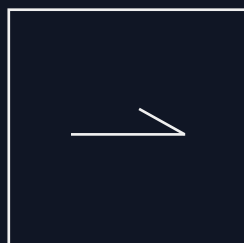


## 「5」 CICES promotes further improvement of corporate carbon data management level

Corporate employees lack knowledge about carbon peaking and carbon neutrality, and they need to improve their professionalism. In addition, the personnel transfer is highly frequent, and some employees cope with this issue with perfunctory attitude and employ trickery sometimes. Overall, the filling quality is so-so, with approval rate in audit staying below 10%. Through more than 50 practical drills and nearly 2000 interactions, CICES Management Committee helped users resolve.

50  
+ practical drills

2000  
+ interactions



Common Errors | CICES  
2023-1 版

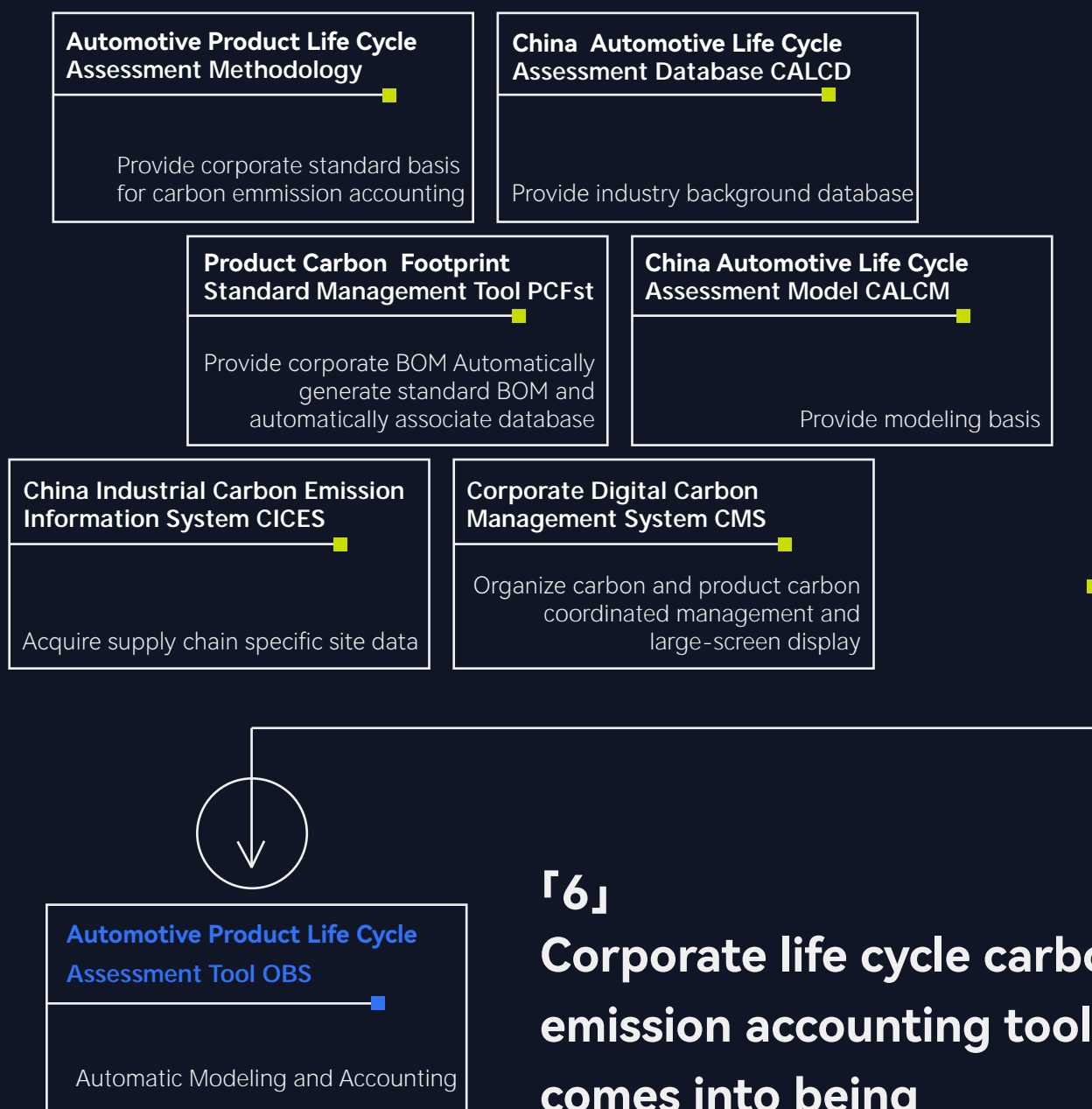
FAQs | CICES  
2023-1 版



300  
+ FAQs

100  
+ common filling errors





## 「6」 Corporate life cycle carbon emission accounting toolkit comes into being

CICES, together with product standard BOM management tool PCFst, automotive product life cycle assessment tool OBS, and corporate digital carbon management system CMS, constitutes automatic carbon “accounting” toolkit that integrates supply chain carbon data acquisition, standard BOM modeling, carbon emission system statistical analysis, and corporate carbon coordinated management.

## 「7」 Working Group on deep de-carbonization of the automotive industry is founded

Established working groups on vehicle steel materials, power storage battery, non-ferrous metal, polymer materials, bio-based materials, glass, and tire industries, and set up “Cross-industry Low-carbon Exchange and Communication Platform”. In addition, formulated 7 guidelines for deep de-carbonization of the industry, convened 8 workshop meetings, guided vehicle material enterprises to fulfill deep de-carbonization, and promoted the automotive industry’s development toward life cycle carbon neutrality.



## Working Groups



### Working Groups On Steel Industry



### Working Groups On Power Battery Industry



### Working Groups On Automobile Tires



### Working Groups On Non-ferrous Metal



### Working Groups On Bio-based Material



### Working Groups On Bio-based Material



### Working Groups On Polymer Material



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