

We will start at 10:00 am (Brussels Time)

Latest Development on China's National Standardisation Development Outline

Dr. Betty Xu

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Use the ***Q&A or Chat Panel*** to submit your questions

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SESEC V

Latest Development on China's National Standardisation Development Outline

[Dr. Betty XU] | [Feb 17, 2023]

Agenda

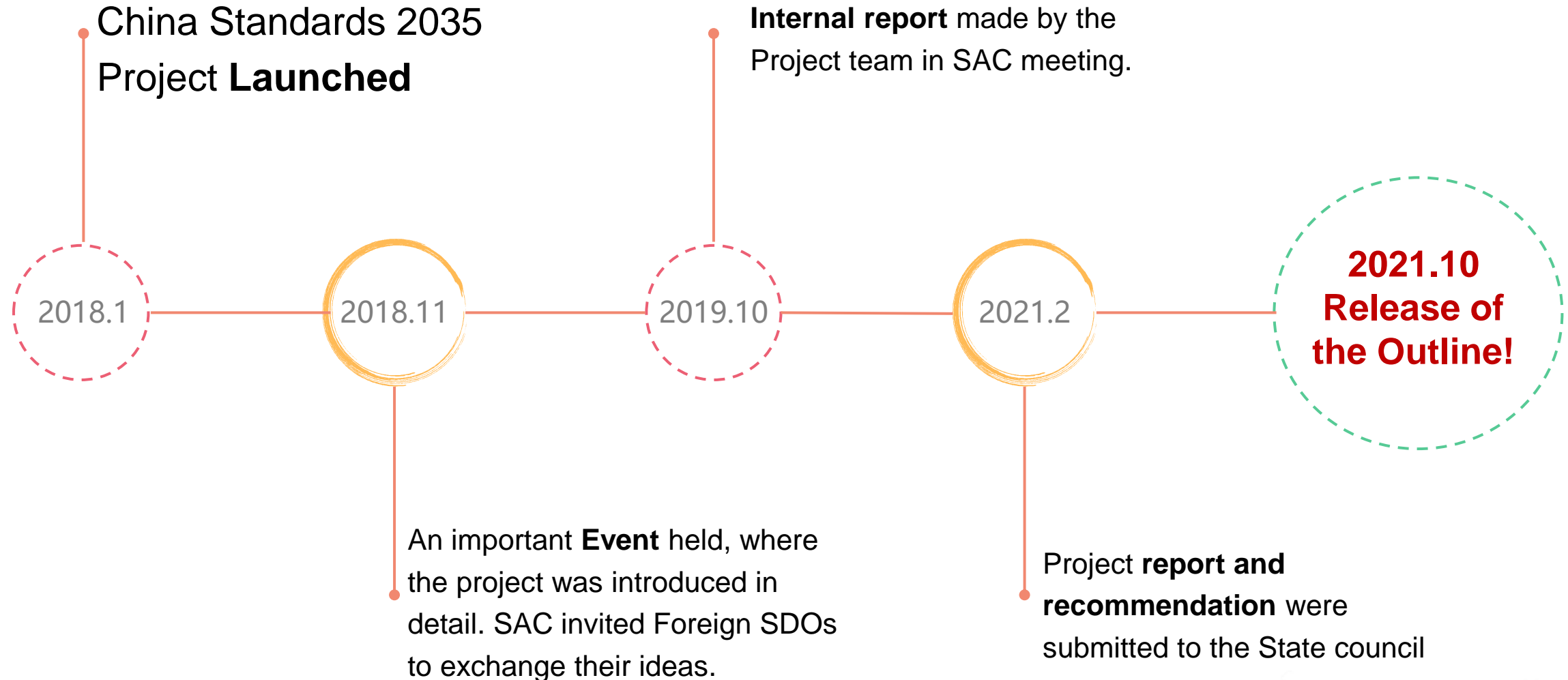


- 1. The China Standardization Development Outline**
- 2. Subsequent key regulations and policies**
- 3. Latest progress**
- 4. Conclusions**

1. The China Standardization Development Outline

Background

Key Timeline and Resources



The Outline

中共中央 国务院印发《国家标准化发展纲要》

2021-10-10 19:42 来源：新华社

【字体：大 中 小】 打印 分享 微信 微博 +

中共中央 国务院 印发《国家标准化发展纲要》

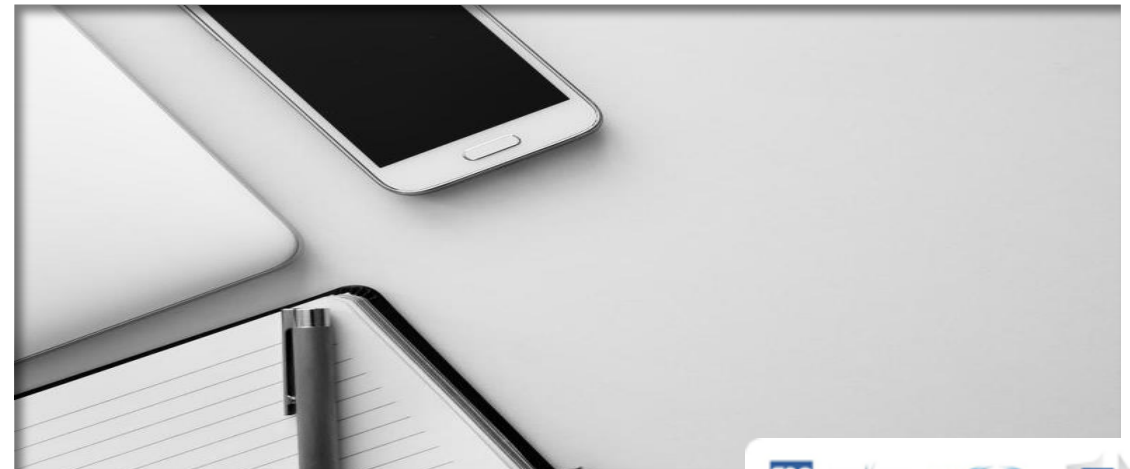
新华社北京10月10日电 近日，中共中央、国务院印发了《国家标准化发展纲要》，并发出通知，要求各地区各部门结合实际认真贯彻落实。

《国家标准化发展纲要》主要内容如下。

标准是经济活动和社会发展的技术支撑，是国家基础性制度的重要方面。标准化在推进国家治理体系和治理能力现代化中发挥着基础性、引领性作用。新时代推动高质量发展、全面建设社会主义现代化国家，迫切需要进一步加强标准化工作。为统筹推进标准化发展，制定本纲要。

The Central Committee of the Communist Party of China and the State Council issued the Outline, as the guidance of the medium - and long-term development of standardization in China.

- promoting standardization to serve economic and social development and standardization reform
- strengthening international exchanges and cooperation on standardization



The Outline

3 Sections, 9 chapters, 35 Articles

Introduction

Orientation

Formulation Background

1. General Requirements

- Guiding ideology
- Development goals

serve economic and social development

2. Promote the interactive development of standardization and technological innovation
3. Improve the level of industrial standardization
4. Improve the standardization guarantee for green development
5. Accelerate the standardization process of urban and rural construction and social construction
6. Improve the level of standardization and opening to the outside world

promote the development of standardization

7. Promote standardization reform and innovation
8. Consolidate the foundation of standardization development

9. Organization and implementation

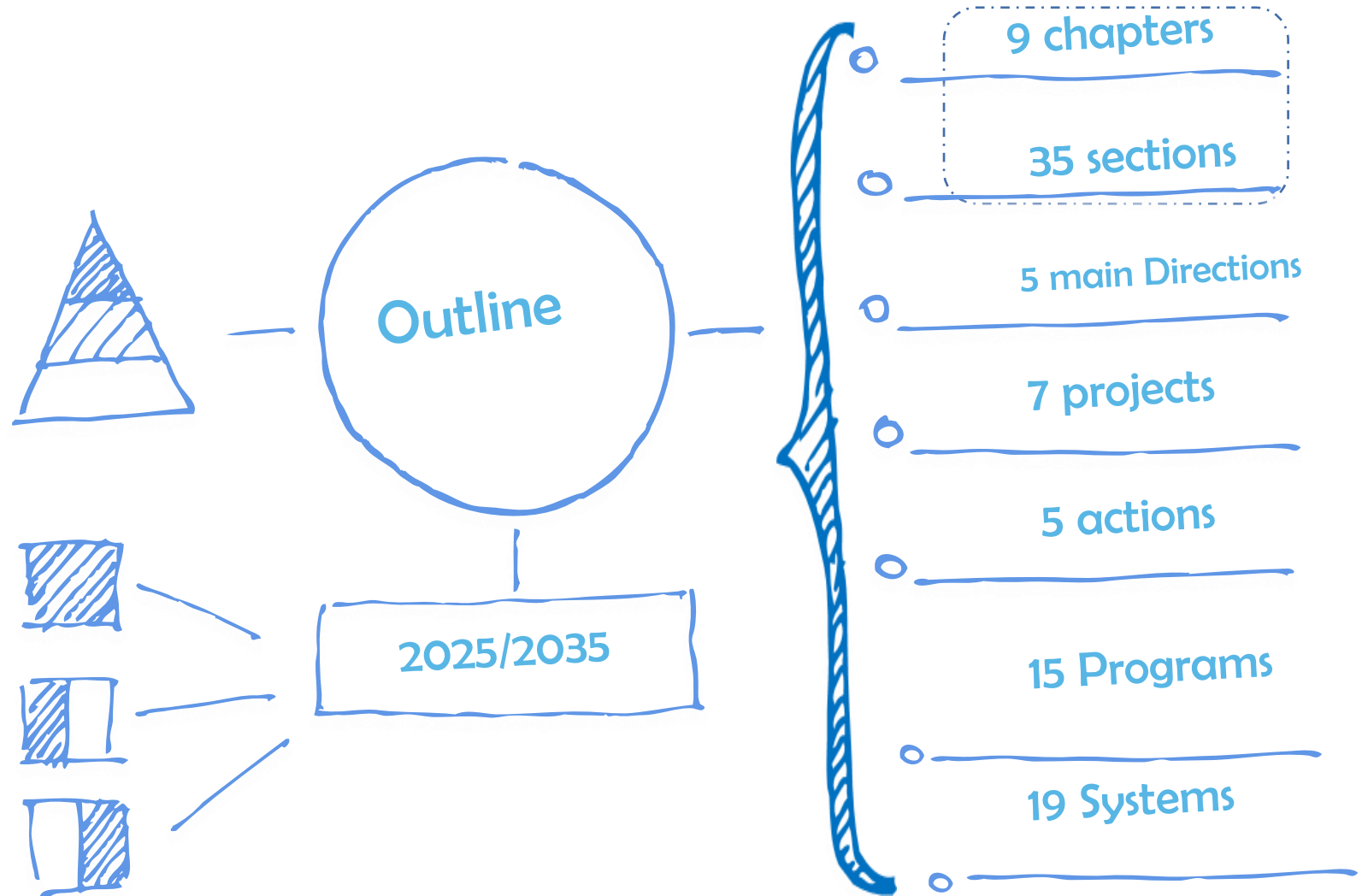
- Strengthen organization and leadership
- Improve supporting policies



Outline for the Development of National Standardisation

2021.10.10

- promoting standardization to serve economic and social development and standardization reform
- strengthening international exchanges and cooperation on standardization



2. Subsequent key regulations and policies

Subsequent key regulation and policies

Opinions on Promoting the Sound Development of Association Standards

On 23 February 2022, after the approval of the Inter-ministerial Joint Conference System of the State Council for Coordinating and Promoting Standardisation, SAC and other 16 ministries and national associations jointly issued the **Opinions on Promoting the Sound Development of Association Standards**.

Objectives:

- contribute to the implementation of the Outline on the State's Standardisation Development,
- regulate association standardisation, and thus promote high-quality development.

Summary of Key Points:

- Association standards formulation in cybersecurity.
- Good Practice List for promoting association standards.
- Association standards as the main interface of international standards formulation.
- Incentive policies for promoting association standards.
- Items awaiting further clarification.

Subsequent key regulation and policies

On 6 July 2022, the **Action Plan for Implementing the National Standardization Development Outline** was jointly released by the State Administration for Market Regulation (SAMR) and other 15 national departments

It proposed 33 actions

No.	Tasks in the Action Plan	Corresponding parts in the Outline
1	Promote coordinated work in standardization	Part 1: General requirements
2	Strengthen the mutual promotion between standardization and sci-tech innovation	Part 2: Strengthen the mutual promotion between standardization and sci-tech innovation
3	Raise the level of standards in the equipment manufacturing industry	Part 3: Raise the level of industrial standardization
4	Improve standards to support modern service industries	
5	Continue to raise levels of standards for consumer goods	
6	Increase the support for standardization development in emerging industries	
7	Promote the effective alignment of upstream and downstream standards in the industrial chain	
8	Launch a campaign to standardize new infrastructure	Part 4: Promote the development of the green standards
9	Implement the standardization upgrading project for carbon peak and carbon neutrality	
10	Improve the standard system for ecosystem protection and restoration	
11	Improve standards to support the conservation and intensive use of natural resources	
12	Improve standards for rural development	Part 5: Accelerate the standardization process in support of rural and urban development, as well as social development
13	Improve the standards system for administrative and social governance	
14	Launch the campaign of standardization for public security	
15	Launch the campaign of building standards system for basic public services	
16	Develop standards for high-quality living	

Subsequent key regulation and policies

On 6 July 2022, the **Action Plan for Implementing the National Standardization Development Outline** was jointly released by the State Administration for Market Regulation (SAMR) and other 15 national departments

It proposed 33 actions

No.	Tasks in the Action Plan	Corresponding parts in the Outline
17	Increase China's participation into international standardization activities	Part 6: Increase the level of openness of standards
18	Deepen the cooperation in international standardization	
19	Promote the compatibility of Chinese standards with international standards system	
20	Promote the connectivity of standards via the Belt and Road Initiative	
21	Promote the coordinated development of standards at home and abroad	
22	Promote the coordinated development of standards published by governmental authorities	Part 7: Promote the innovation and reforms of standardization
23	Increase the guidance towards the development of association standards	
24	Improve enterprises' capacities in formulating enterprise standards	
25	Promote innovation and development of standardization at the local level	
26	Strengthen coordination on quality infrastructure standards	
27	Strengthen the application and supervision of standards	
28	Strengthen the technological supporting system	Part 8: Consolidate the foundations for standardization development
29	Support the development of standardization service industries	
30	Strengthen education and training of standardization expertise	
31	Release incentive policies	Part 9: Policy implementation
32	Strengthen supervision and inspection	
33	Publicize relevant policies	

Subsequent key regulation and policies

Administrative Measures for National Standards

On 22 September 2022, SAMR released the revised Administrative Measures for National Standards. The Measures will come into effect on 1 March 2023 and replace its previous edition released in 1990.

Compared with the 1990 edition, the Measures have changed as follows:

1. The scope of national standards is expanded.
2. Provisions for IPR protection of national standards are put forward.
3. A standards verification system is introduced.
4. Association standards can be converted to national standards is reiterated, and the role, scope, and coding method of guidance technical documents for national standardization are determined.
5. The statement about TC secretariat organization is removed, as there is no clear management system on these organizations, which usually results in their standards being low quality.
6. A standards assessment system is introduced.
7. Transition period between and the legal force of new and old standards are put forward, aiming to address the problem of when to implement a new standard and if the old one still effective after the new one released.
8. A standards implementation information reporting and effectiveness assessment mechanism is added.

Subsequent key regulation and policies

Outlines for Constructing the "Quality Power Country"

On 6 February 2023, CPC's Central Committee and the State Council released the Outline for Constructing the "Quality Power Country". ...Foster economic development advantages centering around technology, standards, brands, quality, and service...

- ❖ Actively align with international advanced technologies, rules, and standards
- ❖ Set objectives for 2025, including a modernized and highly efficient quality infrastructure.
- ❖ Standards are cited in almost all tasks assigned
- ❖ Carry out the quality infrastructure upgrading and efficiency-improving project
 1. Enhance quality-related bodies' capability
 2. Establish national level quality labs
 3. Build up quality infrastructure integrated service bases
 4. Improve TBT-related service, including promoting standards synergy and conformity assessment results mutual-recognition between China and other Countries; strengthen inter-ministries coordination

4. Latest progress

5 Directions

Standards drive high-tech innovation

Promote the interaction between standardization and scientific and technological innovation, and strengthen research on standards in key technological areas.



Direction 1 & 2

Standards lead the high-end industry

intensify the development and application of general basic standards, and promote comprehensive standards across industries

SESEC observed that these two directions have become the standards development strategies when a standard proposal is approved



Outline for the Development of National Standardisation

5 Main Directions: 3-5



Standard support efficient governance

Rural revitalization, social governance, digital society, carbon peak, carbon neutral

Standards promote high level openness

Deepen bilateral and multilateral international exchanges and cooperation; Participate in international standardization activities

Standards guarantee high quality of life

Strengthen standardization of public security;
Food, medicine, safety in production

SESEC observed these were implemented into some management and services standards

Latest progress

A. 7 Projects in the Outline

1. High-end equipment manufacturing standardization
2. Standardization pilot projects for emerging industry
3. Standardization for enhancing the stability of industrial chain
4. Standardization for carbon peak and carbon neutrality
5. Standardization for public safety
6. Standard system for basic public services
7. Increase China' s participation in international standardization activities

Is it contained in the Action Plan?

Yes, in Action 3 and Action 6

The Action Plan specified the following key industries:

- machine tool numerical control system
- construction machinery
- ship and equipment
- agricultural machinery
- emerging new industries

Competent Authorities:

1. SAC and MIIT
2. SAC, MIIT, and MST

Latest progress

On going. Specifically:

1. Standards in those key sectors are under development by corresponding technical committees and competent governmental authorities.
2. Enterprise Standards: 'Top Runners' Programs — SAMR Identified the Key Sectors for 2022 that this program will be implemented
3. National Standards: *Key Points of National Standardization in 2023*

Latest progress

A. Projects in the Outline

1. High-end equipment manufacturing standardization
2. Standardization pilot projects for emerging industry
3. **Standardization for enhancing the stability of industrial chain**
4. Standardization for carbon peak and carbon neutrality
5. Standardization for public safety
6. Standard system for basic public services
7. Increase China's participation in international standardization activities

Is it contained in the Action Plan?

Yes, in Action 7

The Action Plan specified

a. key industries

- Machinery
- Electrical industry
- Textile industry

b. key categories:

design, material, craft, test, and application

Competent Authorities:

MIIT and SAC

Latest progress

On going.

Latest progress on standardization used for industrial chain stability is not limited to those specified industries and categories. Either they develop individual standards, or they establish standard system. The industries that is recorded for their progress in relevant standardization include but not limited to:

- Standard system for the whole **grain industry** chain (completed)
- Standard system for traditional **Chinese medicine** (ongoing)
- **Internet of Vehicles** (ongoing: MIIT issued the Guidelines on Establishment of Standard System for IoV Cybersecurity and Data Protection)
- **Photovoltaic industry** (ongoing: MIIT released the *Notice on Promoting Coordinated Development along the Photovoltaic Industry Chain*, and Strategic Plan on International Standardization)
- **Vehicle Chips, Industrial Internet etc**

Latest progress

A. Projects in the Outline

1. High-end equipment manufacturing standardization
2. Standardization pilot projects for emerging industry
3. Standardization for enhancing the stability of industrial chain
- 4. Standardization for carbon peak and carbon neutrality**
5. Standardization for public safety
6. Standard system for basic public services
7. Increase China' s participation in international standardization activities

Is it contained in the Action Plan?

Yes, in Action 9

- Establish double carbon standards and metrology system
- Establish corresponding standardization general group
- Develop generic standards
- Upgrade compulsory standards on energy consumption quota of key industries, energy efficiency of key energy-using products
- Develop supportive standards, including energy accounting, certification, evaluation and auditing, etc

Competent Authorities:

SAC and NDRC

Latest progress

On going. Specifically:

1. SAMR and other 8 ministries: *Plan on Establishing and Perfecting Standards and Metrology System for Carbon Peak and Carbon Neutrality*
2. SAC: General Group on Double Carbon Standardization (标准总体组) is established in 2022
3. Chinese Academy of Engineering: 2035 Research on Standardization Development Strategy for Comprehensive Green and Low-carbon Transition
4. SAC: Dedicated Plan on National Standards and Relevant Standard Foreign Language Translation for Carbon Peak and Carbon Neutrality
5. National Energy Administration: Action Plan on Carbon Peak and Carbon Neutrality in Energy Sector

Latest progress

A. Projects in the Outline

1. High-end equipment manufacturing standardization
2. Standardization pilot projects for emerging industry
3. Standardization for enhancing the stability of industrial chain
4. Standardization for carbon peak and carbon neutrality
- 5. Standardization for public safety**
6. Standard system for basic public services
7. Increase China's participation in international standardization activities

Is it contained in the Action Plan?

Yes, in Action 14

- Establish standards system of emergency response largely based on compulsory standards
- Accelerate standards development
- Promote pilot trials for standard application

Competent Authorities:

CAC, MEM (应急部), MPS, NHC (卫健委), and SAC

Latest progress

On going. Specifically:

1. MEM released the *14th Five-Year Plan for Standardization Development for Emergency Management*
2. SAC/TC 351 Public Security Fundamental Technical Committee developed and issued a total of 5 standards in 2022, which are part of the series standards of Security and Resilience

Latest progress

A. Projects in the Outline

1. High-end equipment manufacturing standardization
2. Standardization pilot projects for emerging industry
3. Standardization for enhancing the stability of industrial chain
4. Standardization for carbon peak and carbon neutrality
5. Standardization for public safety
- 6. Standard system for basic public services**
7. Increase China's participation in international standardization activities

Is it contained in the Action Plan?

Yes, in Action 15

The Action Plan

1. specified the following key areas for standardization:
 - fundamental infrastructure building
 - equipment
 - personnel
 - service management
2. Incorporate the standardization of public services into regional development strategy
3. Build and perfect the standardization system
4. Facilitate the standards development, implementation and evaluation by public services organizations at grass-roots level

Competent Authorities:

SAC, NDRC and MoF

Latest progress

On going.
Specifically, Standards Development + Standardization Pilot Projects.

1. SAC: *Plan on National Recommended Standards of Fundamental Public Services in 2022*
2. SAC: Call for Applications of the 9th Pilot Projects of Public Services Standardization

Latest progress

A. Projects in the Outline

1. High-end equipment manufacturing standardization
2. Standardization pilot projects for emerging industry
3. Standardization for enhancing the stability of industrial chain
4. Standardization for carbon peak and carbon neutrality
5. Standardization for public safety
6. Standard system for basic public services
- 7. Increase China's participation in international standardization activities**

Is it contained in the Action Plan?

Yes, in Action 17

1. Increase participation
 - Capacity Building/Personnel training
 - Develop cooperative relationships
2. Key international organizations: ISO, IEC, ITU, CAC
3. Key areas:
 - Carbon peak and carbon neutrality
 - Efficient uses of resources
 - Smart city
 - Food safety
 - Hygiene of plants and animals
 - Digital economy
 - Well-being
 - Gender equality
 - Education,
 - Protection of cultural heritage
 - Cross-border e-commerce
 - digital finances
 - international trade
 - ...

Latest progress

On going.

- Various cooperation and exchanges activities. For instance: SAC's meeting with ISO's secretary general Sergio Mujica
- CENCENELEC- SAC Cooperation Agreement
- Taking the lead in various international standards development
- Chinese experts take positions as chairs and convenors.
- Incubation or training programs for cultivating relevant personnel
- China Led IEC, JTC1 Standards 195 (from 2016-2020)

For details of China's performance in ISO, IEC, ITU, and 3GPP, please visit SESEC's website

Competent Authorities:

SAC

Latest progress

B. 5 Actions in the Outline

1. **Standardization of new type of infrastructure**
2. Standardization for rural revitalization
3. Urban Standardization
4. Standardization of social governance
5. Standardization of elderly care and housekeeping services

Is it contained in the Action Plan?

- Yes, in Action 8
New type of infrastructure includes:
- Industrial internet
 - Internet of Vehicles
 - Energy Internet
- ...
1. Standards development for relevant plan, design, establishment, operation, and upgrading
 2. Pilot trials in certain cities

Competent Authorities:

No ministry is taking the lead position: the work shall be distributed among CAC, NDRC, MIIT, MNR(自然资源部), SAC, MoHURD (住房城乡建设部) and NEA

Latest progress

Ongoing. Specifically,

- Standards Development
- Establishment of Standard system

For instance, *Standard System for Industrial Internet Safety (2021)* was jointly released various associations under the guidance of MIIT; *Guidance on Establishment of Cybersecurity and Data Protection Standardization System for IoV* is released by MIIT in 2022.

Latest progress

B. Actions in the Outline

1. Standardization of new type of infrastructure
- 2. Standardization for rural revitalization**
3. Urban Standardization
4. Standardization of social governance
5. Standardization of elderly care and housekeeping services

Is it contained in the Action Plan?

Yes, in Action 12

1. Standards Development for
 - Supporting agricultural industrial chain
 - Enhancing the well-being, living environment, and public services in rural areas
 - Supporting rural governance
2. Establishment of demonstration regions and platforms for standardization services and publicity

Competent Authorities:

MoA, NRRA (国家乡村振兴局), MoHURD (住房和城乡建设部), and SAC

Latest progress

Ongoing. Specifically,

- Standards development, such as the *GB/T30600-2022 Well-facilitated farmland construction—General rules*
- Establishment of standard system, such as the Standard System for Digital Village
- Establishment of pilots' areas

Latest progress

B. Actions in the Outline

1. Standardization of new type of infrastructure
2. Standardization for rural revitalization
- 3. Urban Standardization**
4. Standardization of social governance
5. Standardization of elderly care and housekeeping services

Is it contained in the Action Plan?

Yes, in Action 13

- Standards development for building **smart and sustainable cities**
- Pilots for municipal standardization in support of coordinated development, emergence response, and community governance at grass-roots level

Competent Authorities:

SAC, MCA (民政部), MoHURD (住房城乡建设部), and MIIT

Latest progress

Ongoing.

Specifically,

- Standards development for building smart cities and sustainable cities: TC 567 working on standards in both two areas
- Report on the Implementation of National Smart Cities Standards 2022 by the General Group that provides guidance to the ongoing standardization work
- International Standardization Forums on Sustainable Development of Municipalities around the Globe

Latest progress

B. Actions in the Outline

1. Standardization of new type of infrastructure
2. Standardization for rural revitalization
3. Urban Standardization
- 4. Standardization of social governance**
5. Standardization of elderly care and housekeeping services

Is it contained in the Action Plan?

Yes, in Action 13

1. Standard development for administrative governance and social governance
2. Key areas:
 - Administrative permission
 - Government affair services and national harmonized platform
 - Business environment assessment
 - Urban and rural governance
3. Pilot trials
4. Establishment of technical committees

Competent Authorities:

State Council, NDRC, MCA (民政部), GGJ(国管局) and SAC

Latest progress

Ongoing. Specifically,

- The National Public Administration and Services Standardization Technical Committee (SAC/TC 594) is established
- Pilot trials projects. For instance, SAC issued the Notice on Calling for Applications of Pilot Trials Projects on Social Governance and Public Services

Latest progress

B. Actions in the Outline

1. Standardization of new type of infrastructure
2. Standardization for rural revitalization
3. Urban Standardization
4. Standardization of social governance
- 5. Standardization of elderly care and housekeeping services**

Is it contained in the Action Plan?

Yes, in Action 16

- Standard system
- Pilot trials
- Incorporation into “Top-runner” Projects
- Surveillance on publicity and implementation of compulsory standards on elderly care institutions
- Establishment of quality rating system for elderly care institutions

Competent Authorities:

MCA (民政部),
MofCOM (商务部) and SAC

Latest progress

Ongoing. Specifically,
Dedicated Action Plan on Standardization of Elderly Care and Housekeeping Services is jointly released by MCA, MoFCOM and SAC

Latest progress

C. Eight Systems

Systems	Corresponding actions in the Action Plan	Specific Actions and Results
System for innovation-oriented standard development at enterprise level	Action 24	No progress
Financing and credit system for standard development	Action 31	Yes, at provincial level: Zhejiang Province developed specific mechanism that makes standard development a business credit for enterprises while they apply for bank loans
System for adoption of standards in regulations	Action 27	Yes, the launch of the Research Project on Technical Regulations based on Rule of Law, National Governance, and Global Governance financed by National Social Science Fund of China. It will explore the mechanism of technical regulations that connect laws and standards.
System for adoption of standards in policies	/	No
Standard copyright system	/	Yes. 1. Administrative Measures for National Standards clarified the SAC's copyright of national standards and the official foreign translation; and specified the national standards shall not incorporate patents in general. 2. Copy right protection practices: carry out a series of actions, including deleting infringement standards shared on mainstream internet platforms, banning document users, infringement dealers, deleting infringement links, etc. 3. Standards Press of China holds meetings that specified the following actions in 2022
Standards submission system	/	No progress (ministries did not do anything yet)
Trading system for standards developed by the market	/	Yes, academic wise. Research paper published in Standard Science, the 12th Edition in 2022
Statistical analysis and reporting system for the standardization service industry	Action 29	Yes, academic wise. Research paper published in Standard Science, the 3rd Edition in 2022

Latest progress

D. Seven Mechanism

Mechanisms	Corresponding actions in the Action Plan	Specific Actions
Linkage mechanism between major sci-tech projects and standardization	Action 2	No specific mechanism, yet standards are taken as outputs of some major sci-tech projects in practices
Coordination mechanism for public security standardization	Action 14	No (the coordination is not set-up)
Mechanism for converting market-developed standards into governmental standards	Action 22	Its possibility is legalized in Administrative Measures for National Standards; There are also practices of conversion.
Regional standardization mechanism	Action 25	<ol style="list-style-type: none"> 1. Regional coordination standards are developed 2. Guangdong-Hong Kong-Macao Greater Bay Area in Guangdong Province: the association for regional standards promotion is established in 2022 3. Academic wise: research paper on regional standards development was published in Standard Science, the 7th Edition in 2022
Reporting and complaint mechanism for the implemented standards	/	Not much progress. The public may report the feedbacks on national standards via the National Standard Implementation Feedback Platform
Evaluation mechanism for standardization service	Action 29	No specific evaluation mechanism, yet the SAC made efforts in enhancing the standardization services by issuing the Guidelines for the Application of National Standards Verification Points (2022)
Evaluation mechanism for the implementation of the Outline	/	No

Latest progress

E. Implementation at Provincial Level

A total of **25** Governmental Administrations at Provincial Level have issued the provincial implementation plan in support of the **National Standardization Development Outline**.

The screenshot shows the official website of the Qinghai Provincial Government's Open Government Information portal. The main header features the Qinghai Provincial Government logo and the text '青海省人民政府政务公开'. Below the header, there is a navigation menu with options like '首页', '政务公开', '政府领导', '机构职能', '政策文件', '政策解读', '回应关切', '政务专题', and '政府信息公开'. The main content area displays a document titled '中共青海省委 青海省人民政府 贯彻落实《国家标准化发展纲要》的实施意见'. The document's metadata includes: 索引号: 1150000009; 当前位置: 首页 > 主动公开 > 省委有关文件; 发布机构: 市政府办公厅; 标题: 重庆市人民; 发文字号: 渝府办发〔2021〕143号. The document is dated 2022-03-04 15:50 and is attributed to 青海新闻网. The document's content is partially visible, showing the title and the start of the text: '基础性制度 及中发挥着 基础性、引领性作用。为贯彻落实《国家标准化发展纲要》和'.

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基础性制度

及中发挥着

基础性、引领性作用。为贯彻落实《国家标准化发展纲要》和

5. Conclusions

Conclusions and Observations of SESEC

- **China Standardization Development Outline tend to make “big” or “mega” targets and it is sometimes not easy to check the progress.**
- **After the Outline was published in Oct 2021, all the different level governments and different ministries regarded Standardization as a very important work and the importance of standards is ever high.**
- **The outlines’ effectiveness can be easily seen in government perspectives, but the industries and other market driven stakeholders were less proactive compared to the government stakeholders. Similarly, other ministries are less proactive compared to SAC**
- **After one year of the publication, there are some progress or on track development for the Outline implementations, however, some of the tasks do not have any progress.**
- **As it is a medium - and long-term development plan of standardization, we can give it a bit more time to see the results.**
- **SESEC will revisit this topic in another 12 months time.**

Thank you!

Dr. Betty Xu

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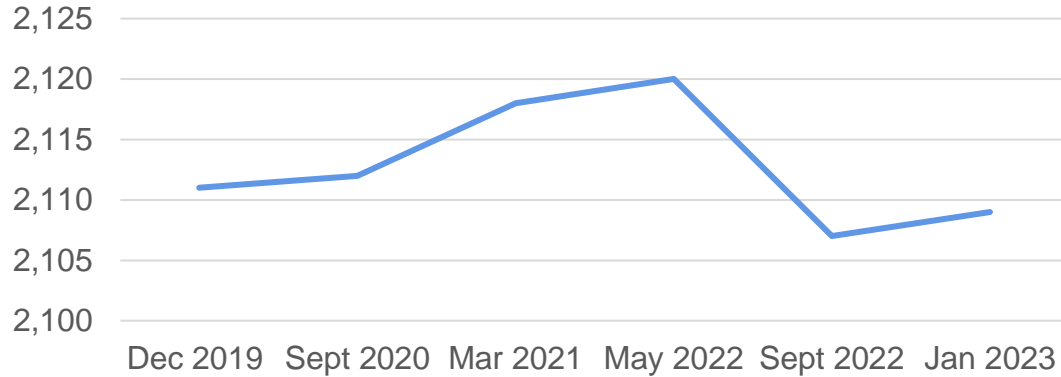
5. Standardisation Statistics

Figures of China Standards until Jan 2023

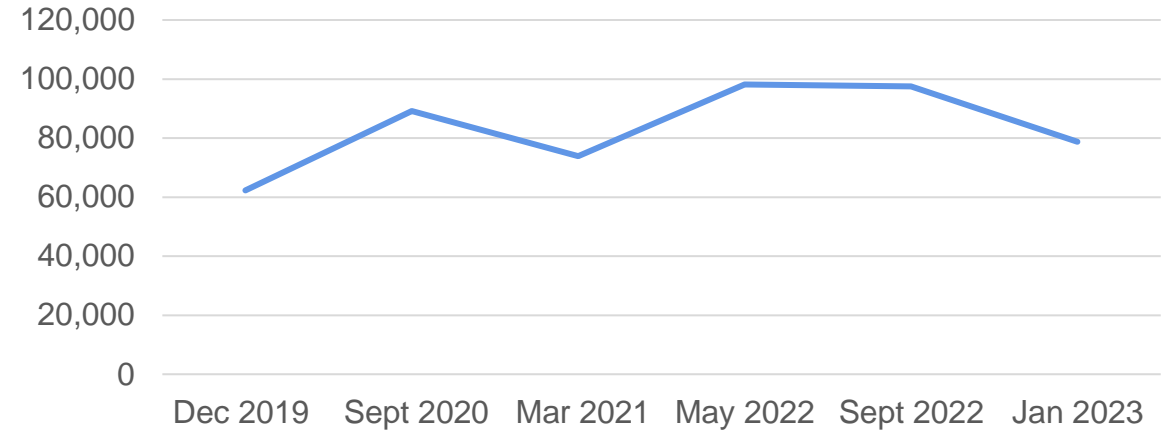
Standards in China	Data by end of 2019	Data in Sept 2020	Data in Sept 2022	Data in Jan 2023
National - mandatory	2,111	2,112 (other 78 will be effective soon)	2,107 (other 75 will take effect soon)	2109 (other 102 will take effect soon)
National - voluntary	36,877	35,864 (other 978 will be effective soon)	39,687 (862 will take effect soon)	39847 (897 will take effect soon)
Sectoral standards	62,262	89,137	97,495 (filed)	78757 (filed)
Local standards	37,818	46,560	78,416	63,054
Association standards	9,790	18,224	43,336	52,896
Enterprise standards	1140000	No data available	2,458,513	2,643,098
International standards adopted (IDT/MOD of ISO IEC)	10,000	Not updated yet	12,484	12,642

5. Standardisation Statistics

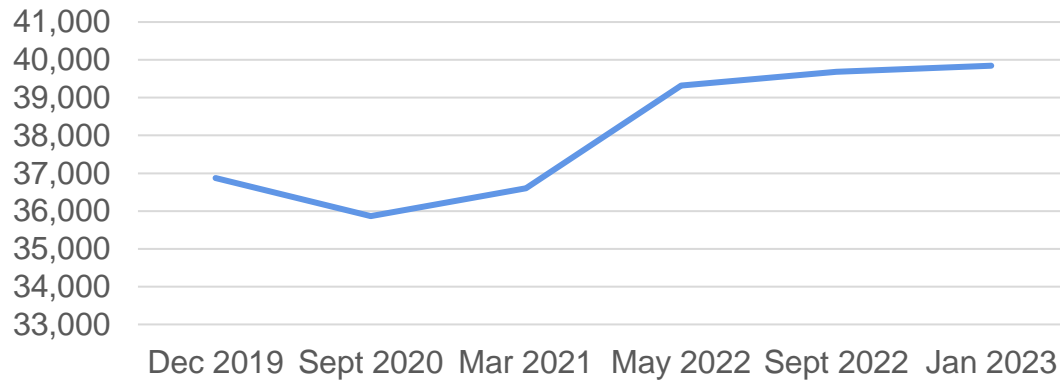
Mandatory National Standards



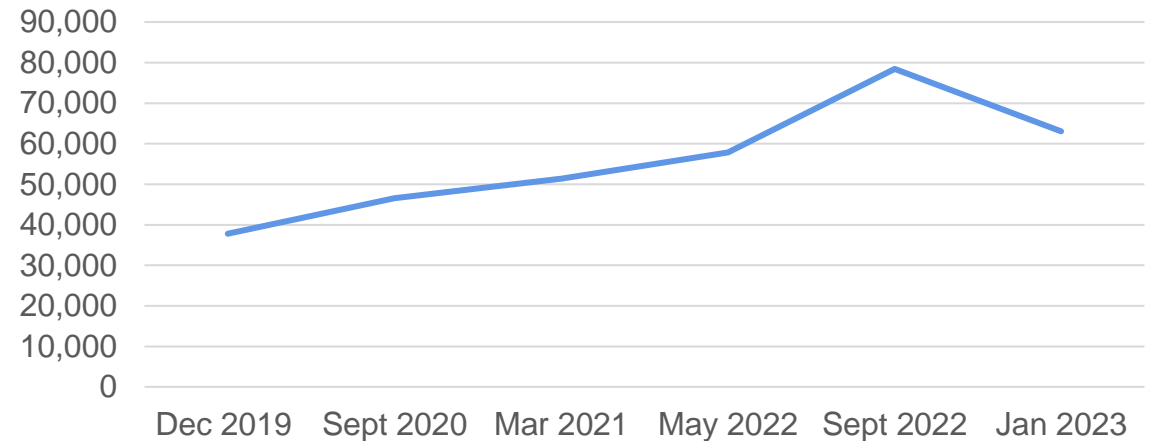
Sectoral standards



Recommended National Standards

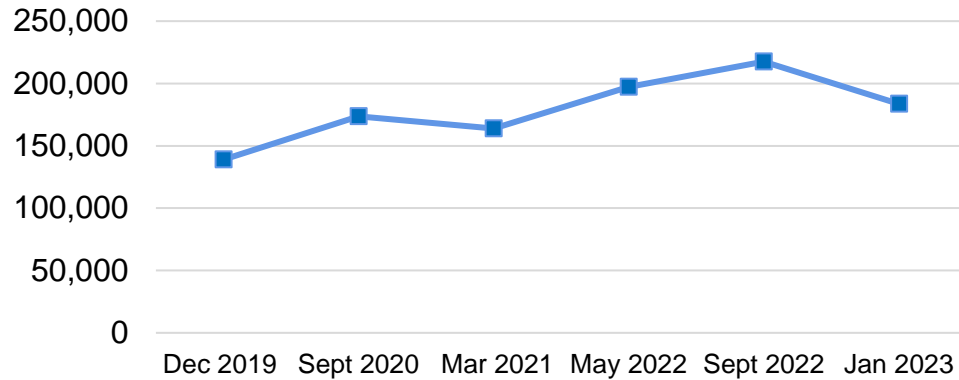


Local standards

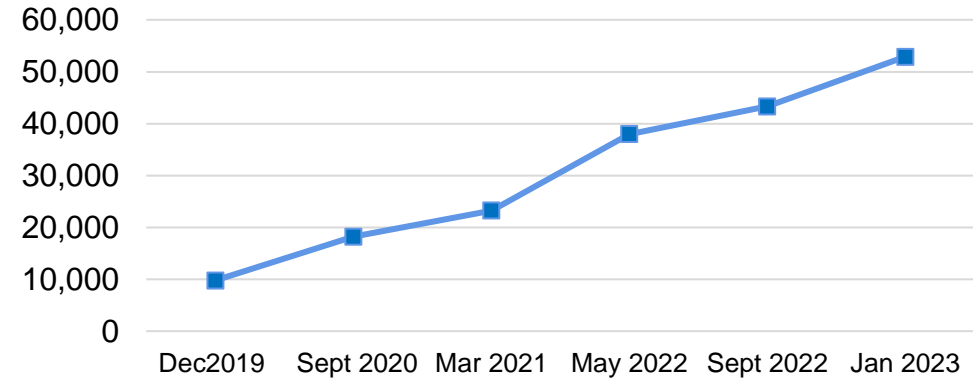


5. Standardisation Statistics

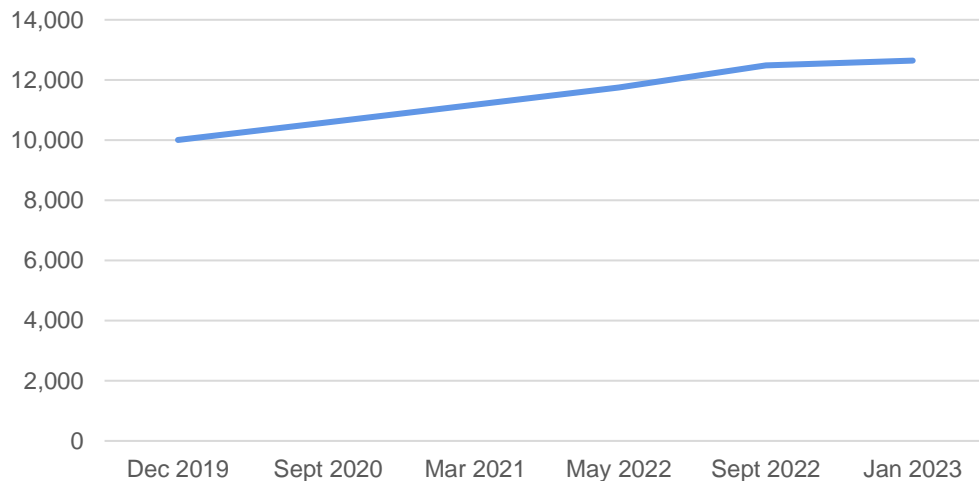
Governmental standards



Association standards



ISO/IEC Standards Adopted



Enterprise standards

