

The Story about APSEC

FIVE Years' Work Progress Since Its Foundation (2014.9-2019.9)

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- 01 WHO is APSEC?
- 02 WHAT does She Have?
- 03 WHAT can She Do?
- 04 WHAT does She Want?



CREATION



PART ONE

Establishment of APSEC

APSEC was established at the 11th APEC Energy Ministerial Meeting in 2014, which was also written into the 22nd *APEC Leaders' Declaration*. It is a major achievement of the Chinese government responding positively to the initiative of APEC leaders to participate in energy cooperation in APEC region.



"We welcome the Beijing Declaration of the 2014 APEC Energy Ministerial Meeting. We welcome the establishment of the **APEC Sustainable Energy Center** in China."

-from 2014 Leaders' Declaration

"We endorse the establishment of the **APEC Sustainable Energy Center (APSEC)** in China in 2014 to promote advanced ideas and models of sustainable energy development across the APEC region, and facilitate cooperation among member economies in information exchange, policy dialogue, technology R&D, demonstration and dissemination, and capacity building in the field of sustainable energy."

-from Beijing Declaration, 2014 APEC Energy Ministerial Meeting



Today's APSEC

Within APEC

ONE of the 24 APEC Specialized Centers.

ONE of the 2 Research Institutions in APEC Energy Working Group.

In China

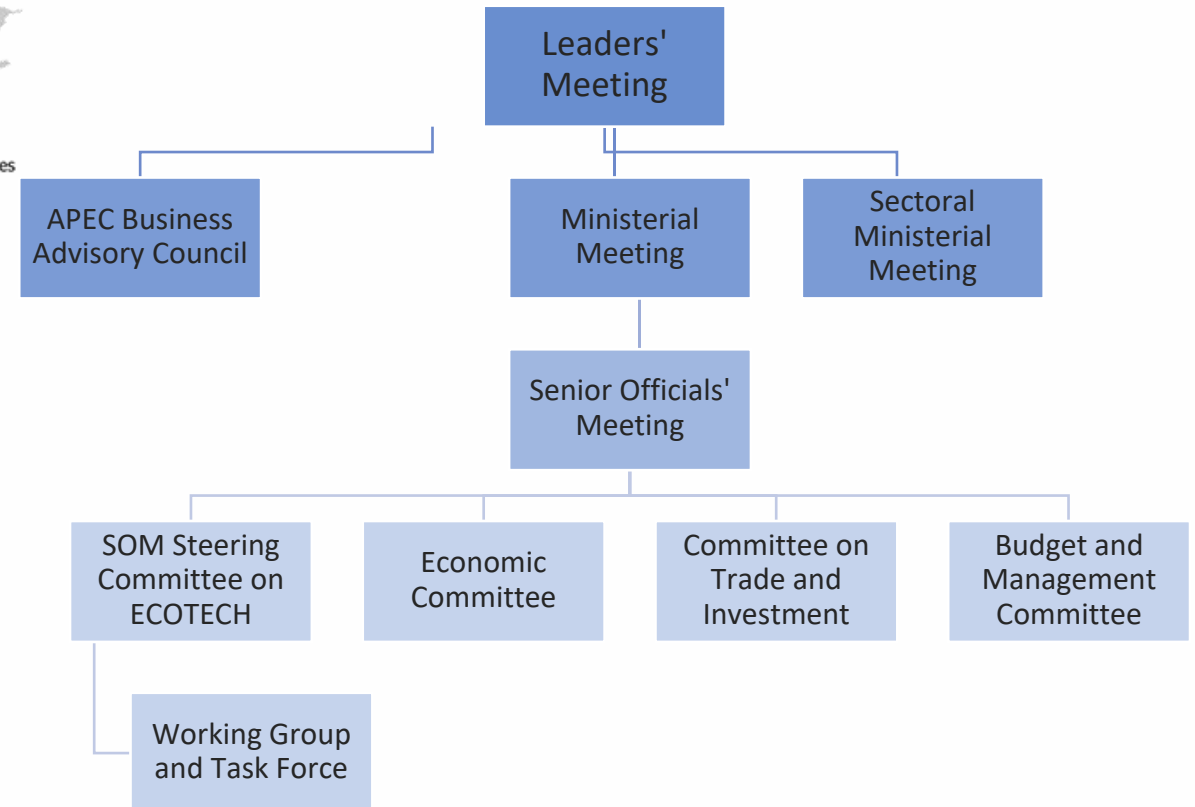
ONE of the 14 APEC institutions registered in the MFA.

The FIRST international energy organization led by National Energy Administration. APEC Sustainable Energy Center is affiliated to NEA.

ONE of the 2 International Think-tank Entities in Tianjin University. TJU is responsible for the daily operation and management.



APEC and China

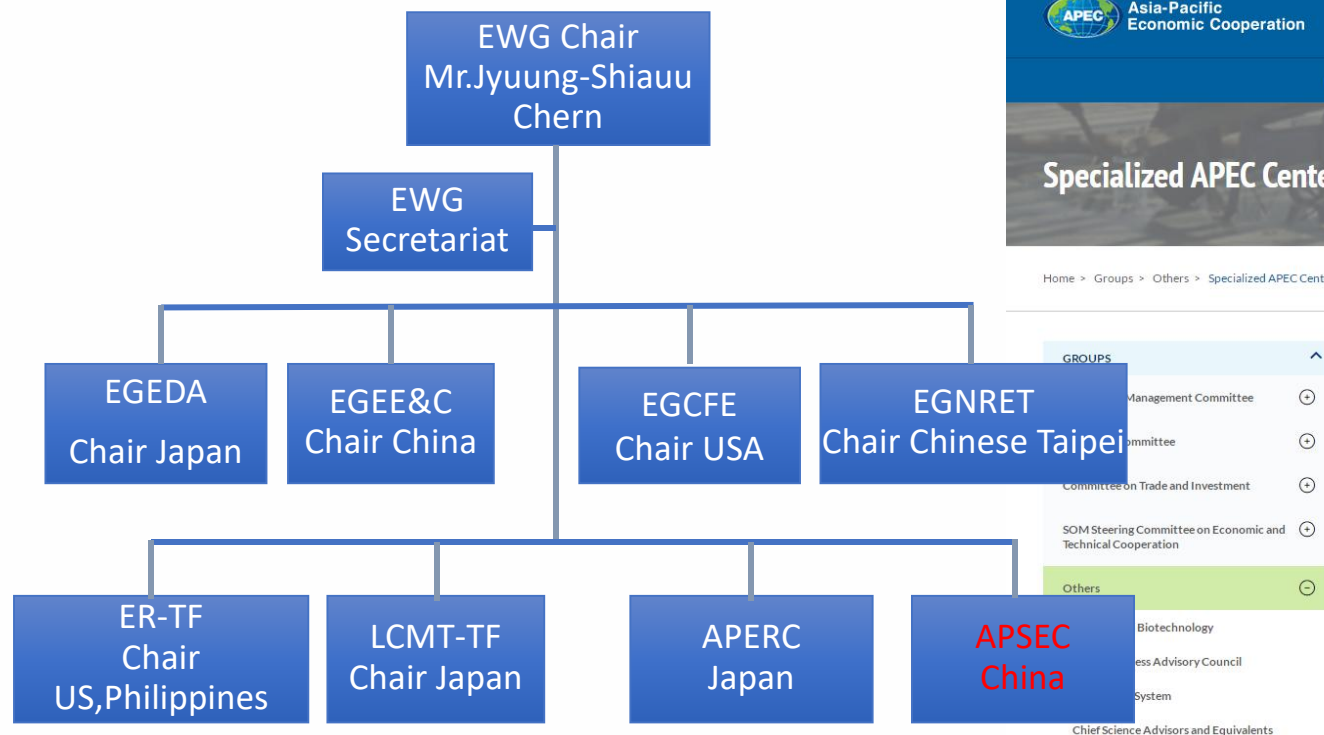
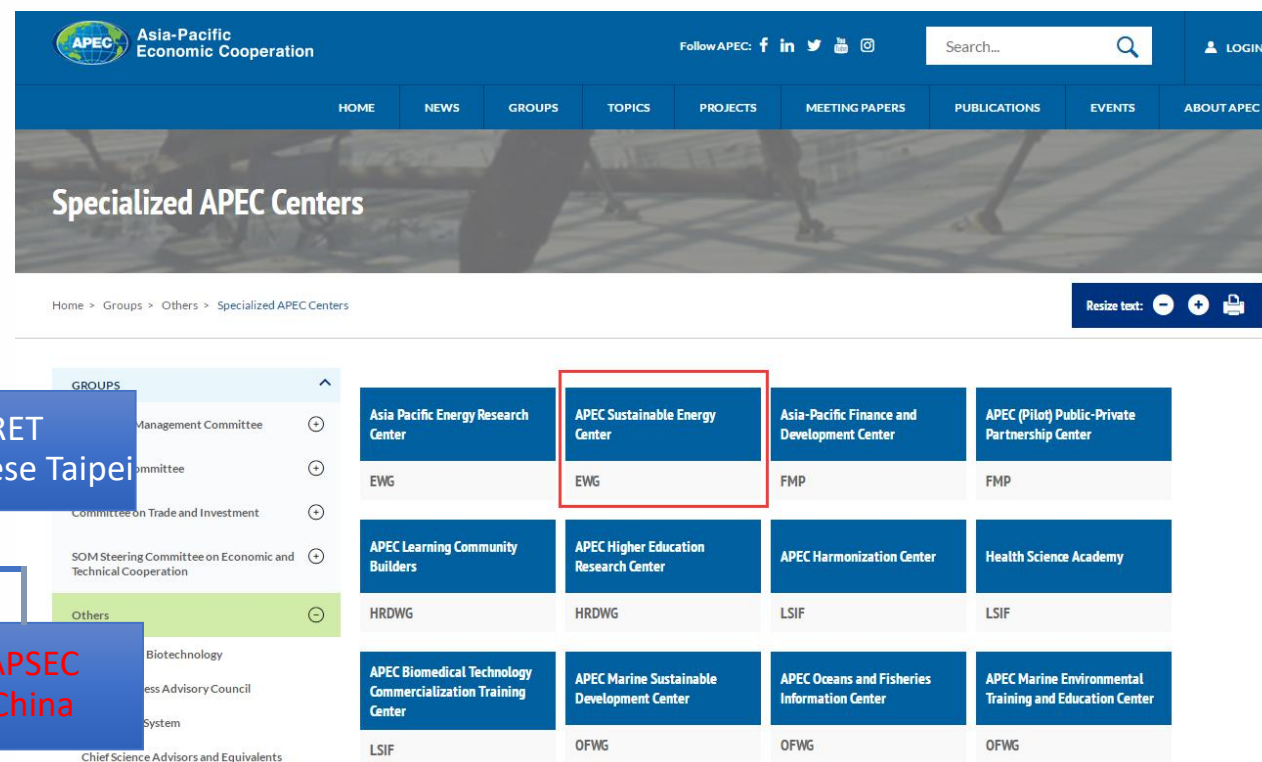


APEC was formally established in Canberra, Australia in 1989. At present, APEC has 21 member economies, which are located in vast areas along the Asian and Pacific coast.

China joined APEC formally in November 1991 and is the second largest economy in APEC region. It's the first regional economic cooperation organization China participated in.



EWG and APSEC

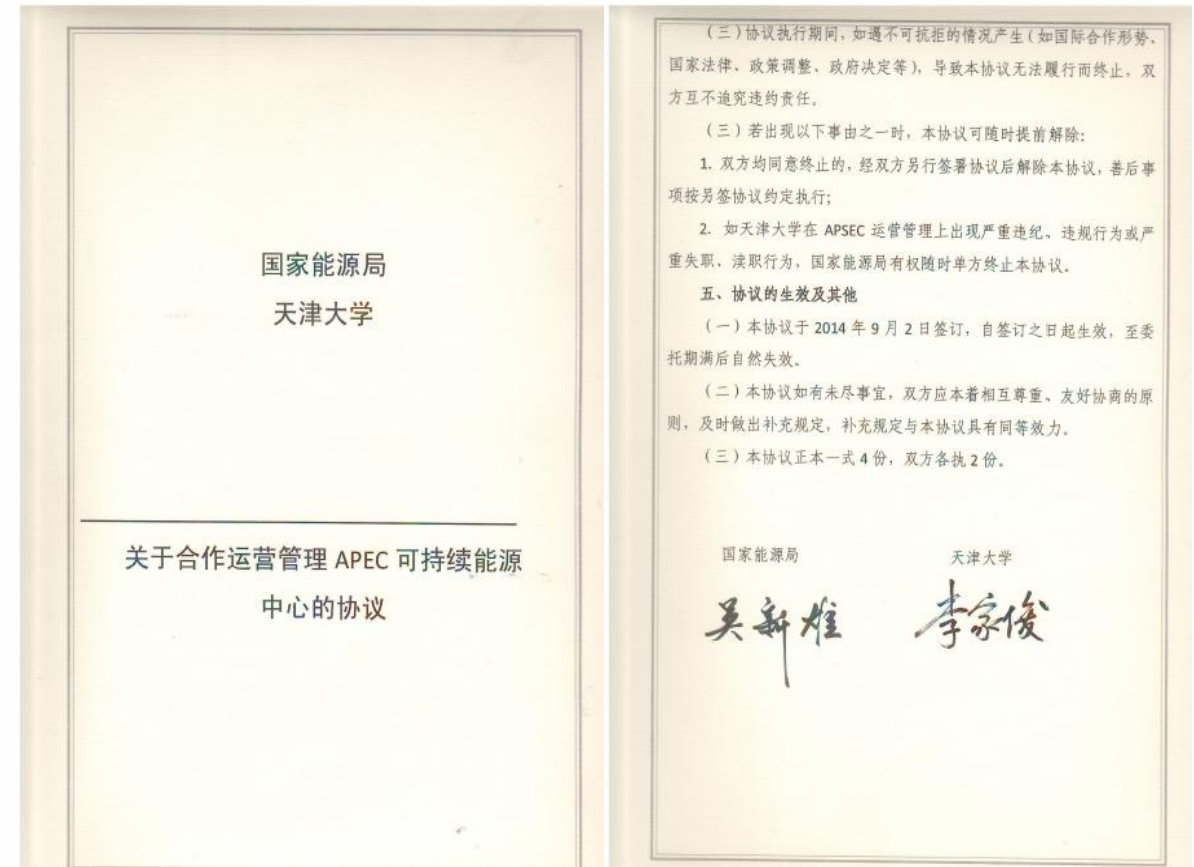
The screenshot shows the APSEC website interface. The header includes the APEC logo, navigation links (HOME, NEWS, GROUPS, TOPICS, PROJECTS, MEETING PAPERS, PUBLICATIONS, EVENTS, ABOUT APEC), a search bar, and a login button. The main content area is titled "Specialized APEC Centers". A sidebar on the left lists various groups, with "Others" expanded to show a list of centers. The main content area displays a grid of specialized APEC centers, with the "APEC Sustainable Energy Center" highlighted by a red box.

Center Name	Chair
Asia Pacific Energy Research Center	EWG
APEC Sustainable Energy Center	EWG
Asia-Pacific Finance and Development Center	FMP
APEC (Pilot) Public-Private Partnership Center	FMP
APEC Learning Community Builders	HRDWG
APEC Higher Education Research Center	HRDWG
APEC Harmonization Center	LSIF
Health Science Academy	LSIF
APEC Biomedical Technology Commercialization Training Center	LSIF
APEC Marine Sustainable Development Center	OFWG
APEC Oceans and Fisheries Information Center	OFWG
APEC Marine Environmental Training and Education Center	OFWG

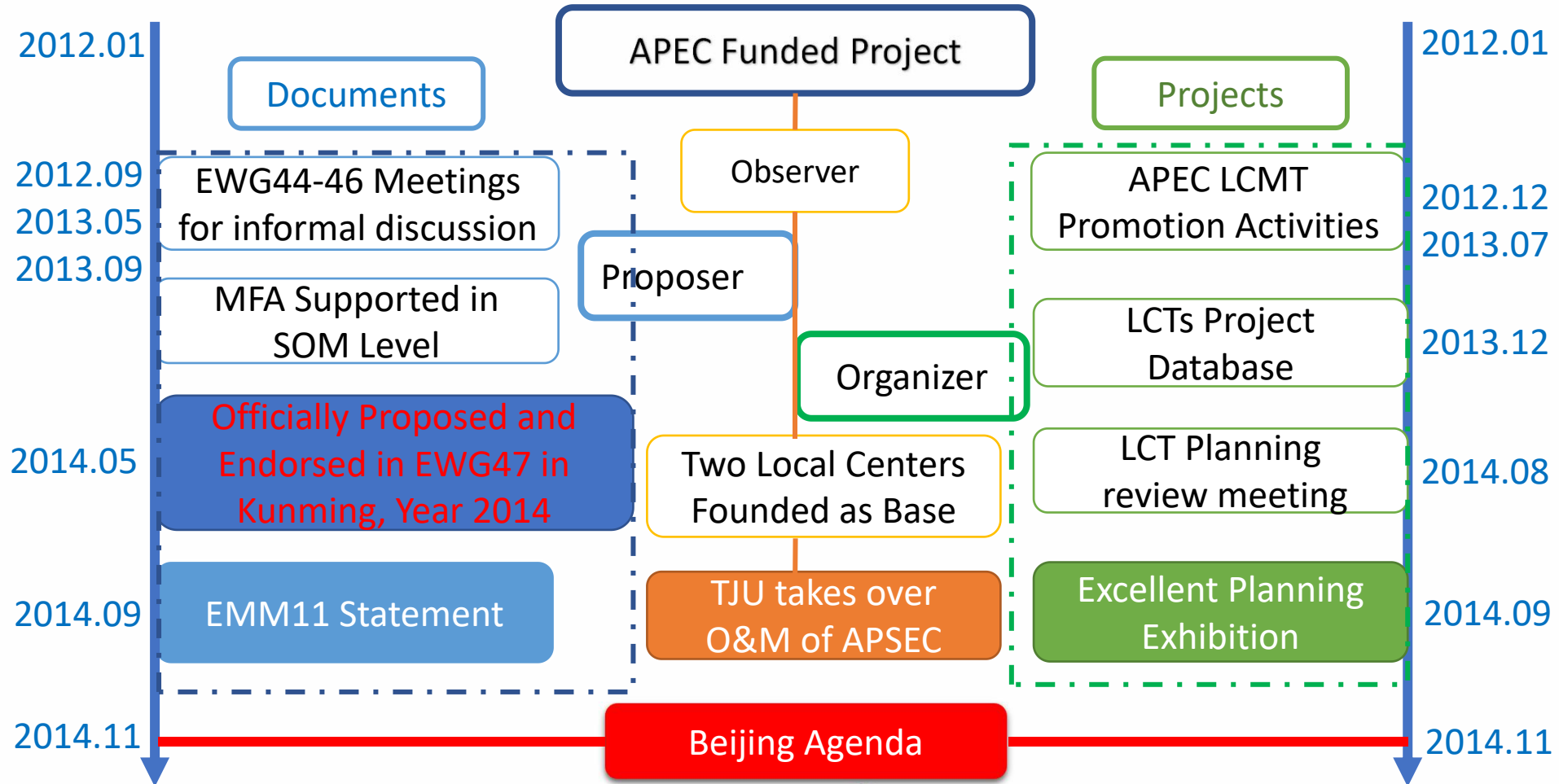


Compared with APERC and similar IOs, APSEC has two unusual features

- A University responsible for its O&M
- A Young Professor as its President



Origin of APSEC



Today's APSEC

After five years of construction and development, APSEC has completed institution building, with sufficient office space, a dynamic team and stable financial support. At the same time, APSEC has a clear vision, complete action plan and work objectives, profound brand international influence and effective resource integration mechanism.

Entity construction

Two Joint Operating Center
Three branches of government support
Two major school-level institutions and a training base

Resource Integration Platform

Three-level Committee of Experts
Two Cooperative Networks
China's Participation in APEC Energy Partnership Network



Promoting low-carbon energy transformation and achieving sustainable development in the Asia-Pacific region

APSEC adheres to the principle of “Chinese-led, APEC-based, World-oriented” and strives to become a brand of Tianjin University and a world-class energy research center.



NETWORKS with a CORE



PART TWO

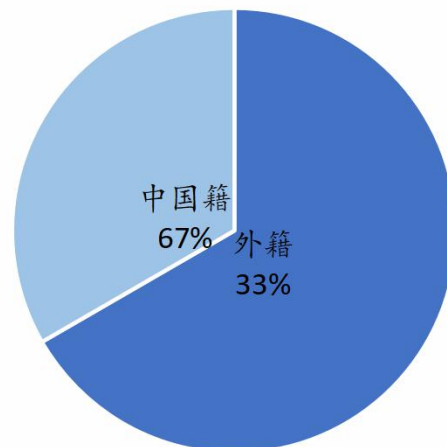
Entity Core of APSEC

OFFICE



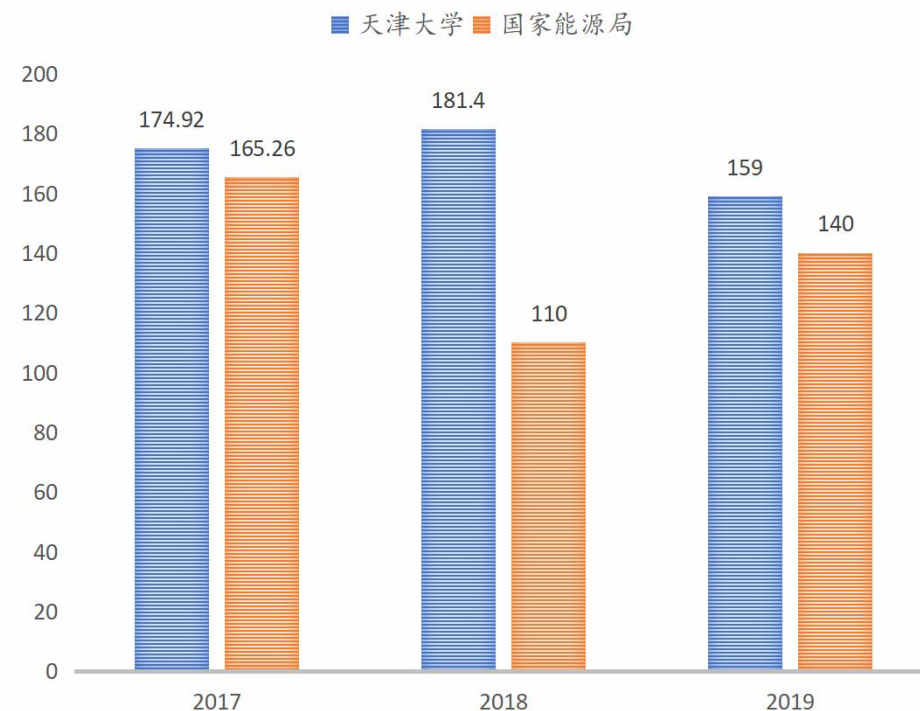
Located in the Library on campus, over 300m² working space and 12 offices.

PERSONNEL



14 full-time staff, 86% of them have a doctoral degree.

BUDGET



Sustainable financial support from NEA and TJU

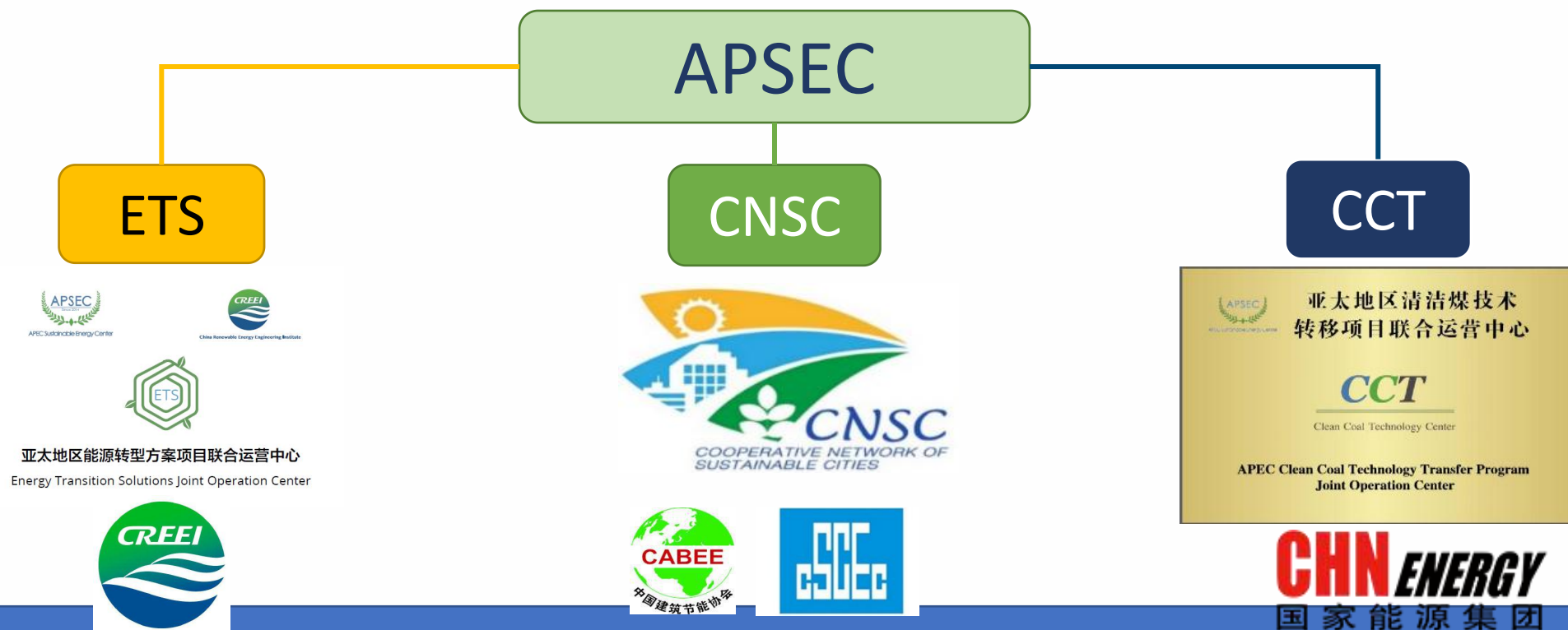


Intelligence Network

APEC Advisory Board Committee has 16 experts from 9 economies; 38 domestic experts; University academic committee chaired by President Jin Donghan.



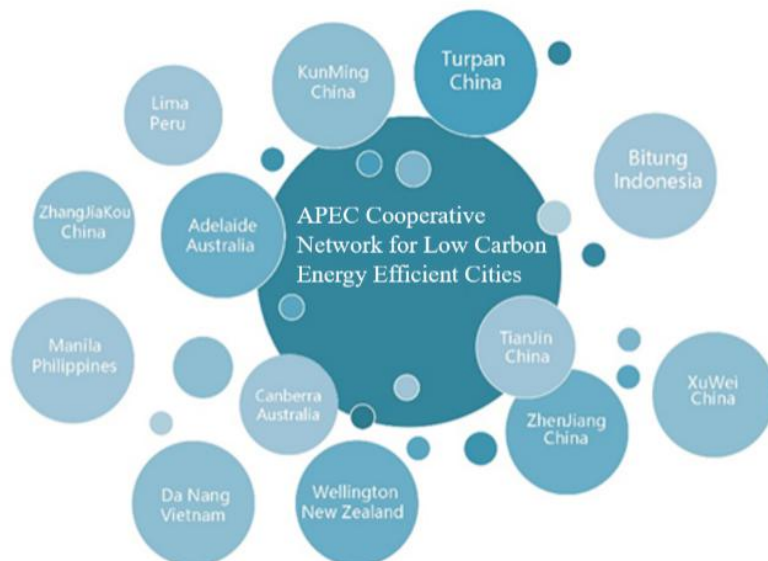
Program Joint Operation Centers



NEA's Network of Chinese Participation in APEC Energy Cooperation



City Network

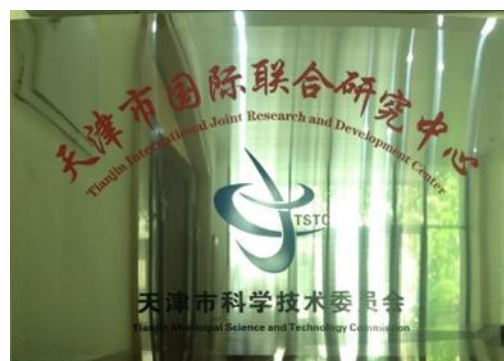
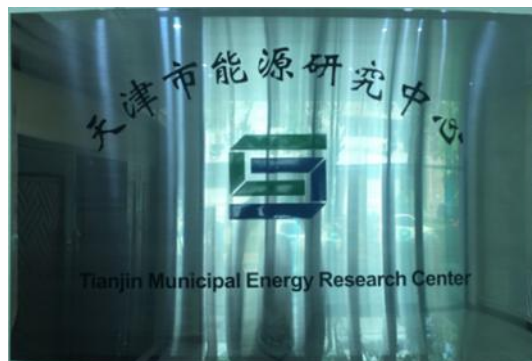


Service Network

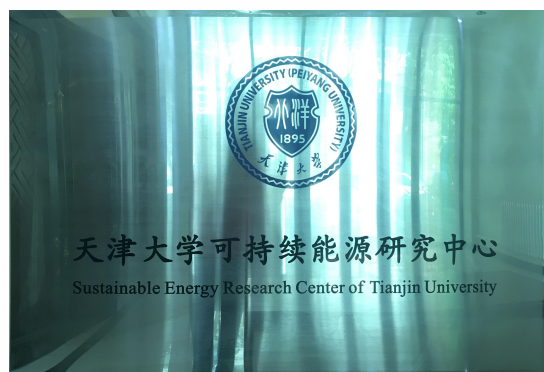


Local Extensions

3 Tianjin institutions: Development and Reform Commission, Science and Technology Bureau, and Housing Construction Committee

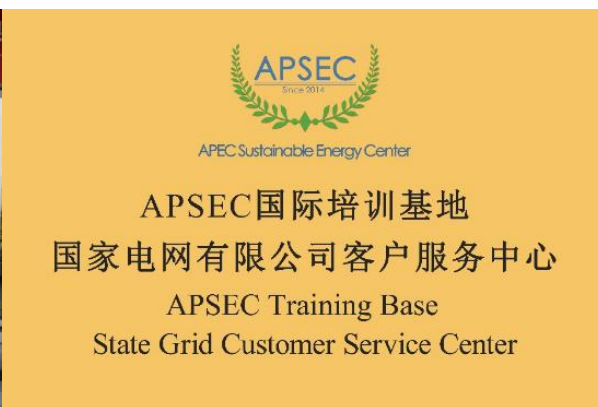


2 University-level institutions: Sustainable Energy Research Center of Tianjin University, Tianjin University International Organization Internship Base



Joint Bases

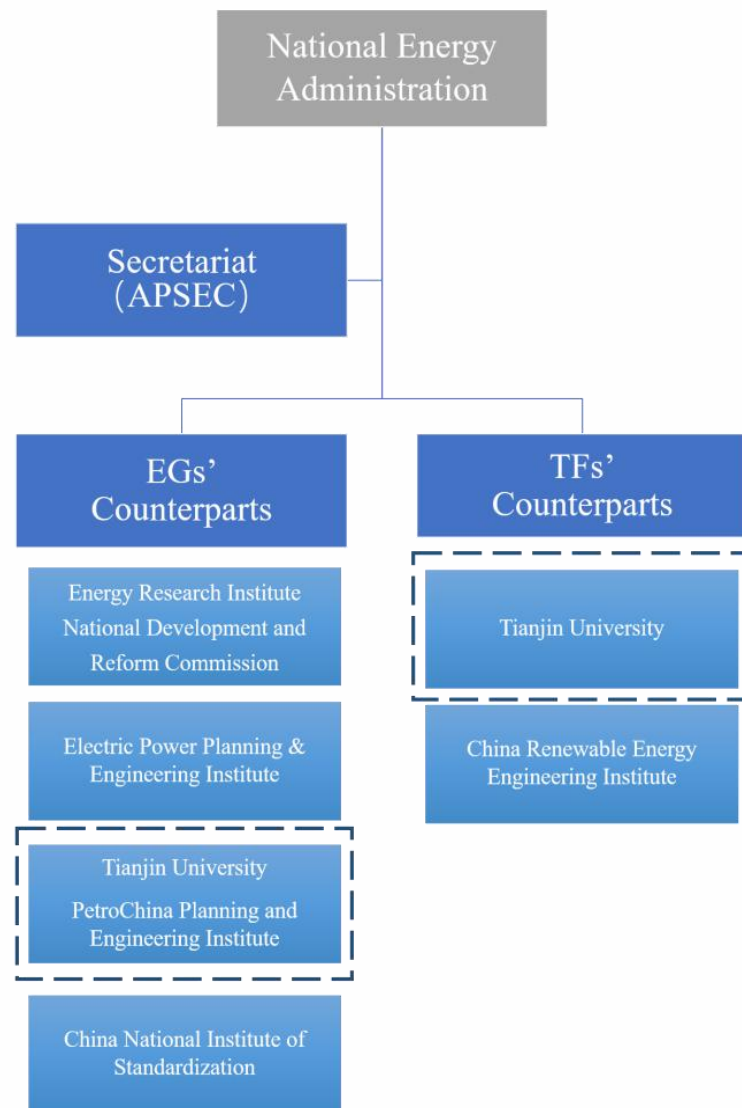
Training Base



R&D and Testing Base



Secretariat to NEA's Network



SERVICE



PART THREE

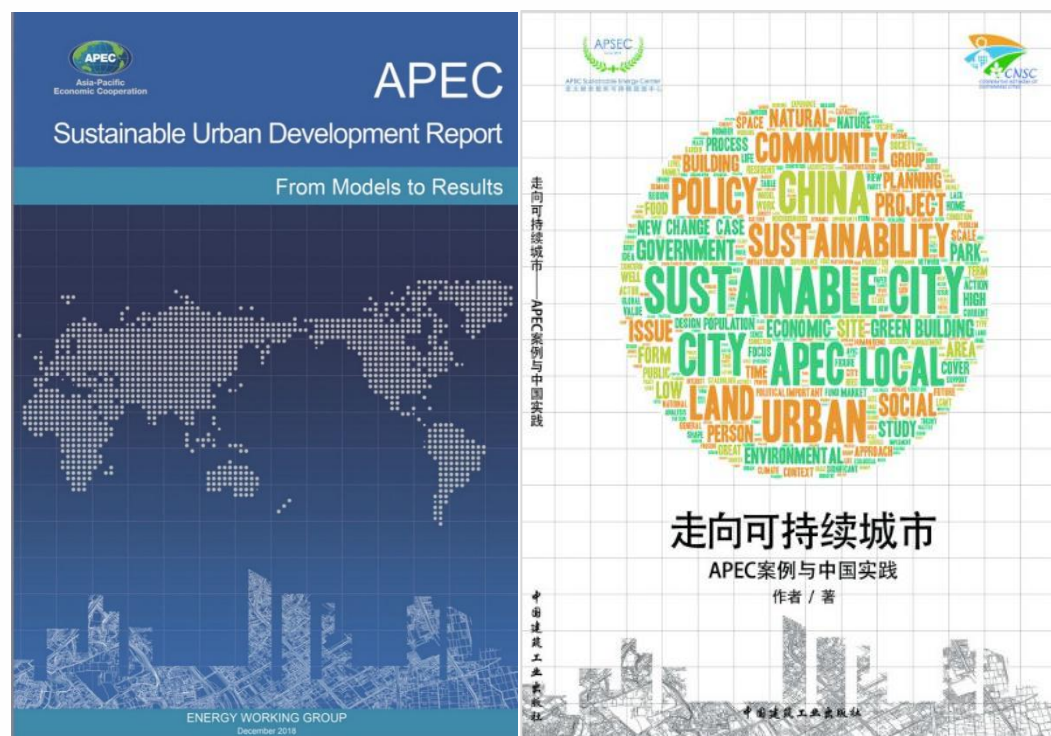
All about Service

- APSEC serve APEC
 - with information sharing, capacity building activities, project researches etc.
- APSEC serve NEA
 - with information collection and analysis, project researches etc.
- APSEC serve TJU
 - with students & personnel cultivation, international brand building etc.
- APSEC serve Cities
 - with sustainable planning and energy transition solutions etc.
- APSEC serve Companies
 - for technology transfer and application in APEC region.



Program Research

Continuous implementation of two pillar programs, namely APEC Cooperative Network of Sustainable Cities (CNSC) and Clean Coal Technology Transfer (CCT). Producing high-level research results and core publications.



Publications of CNSC

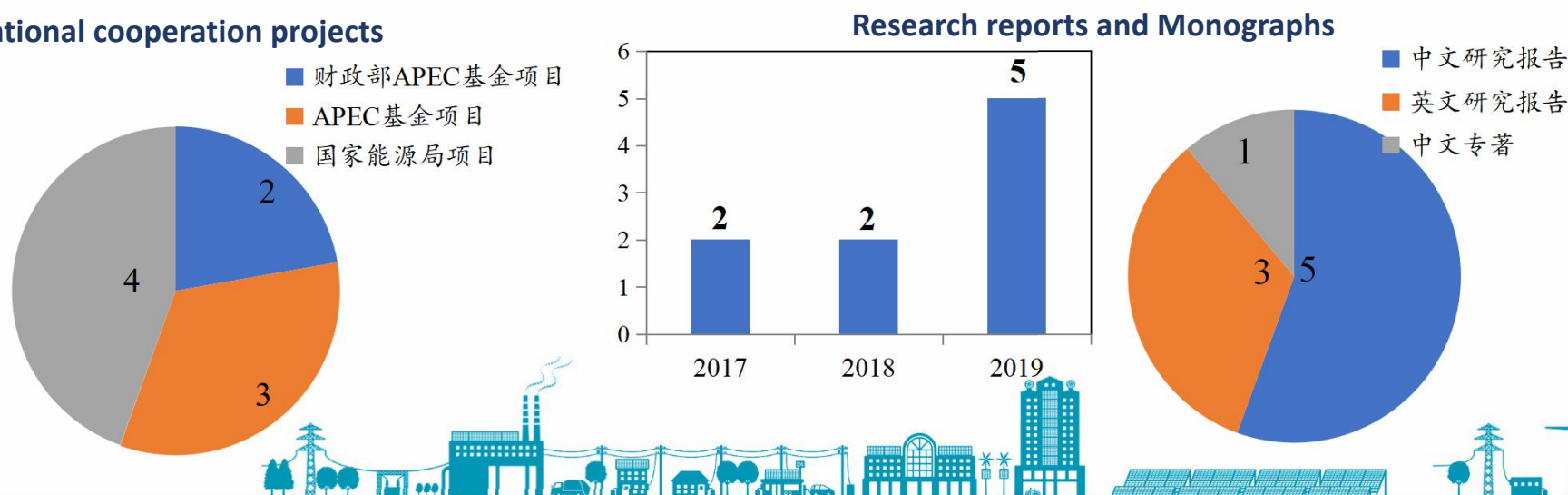
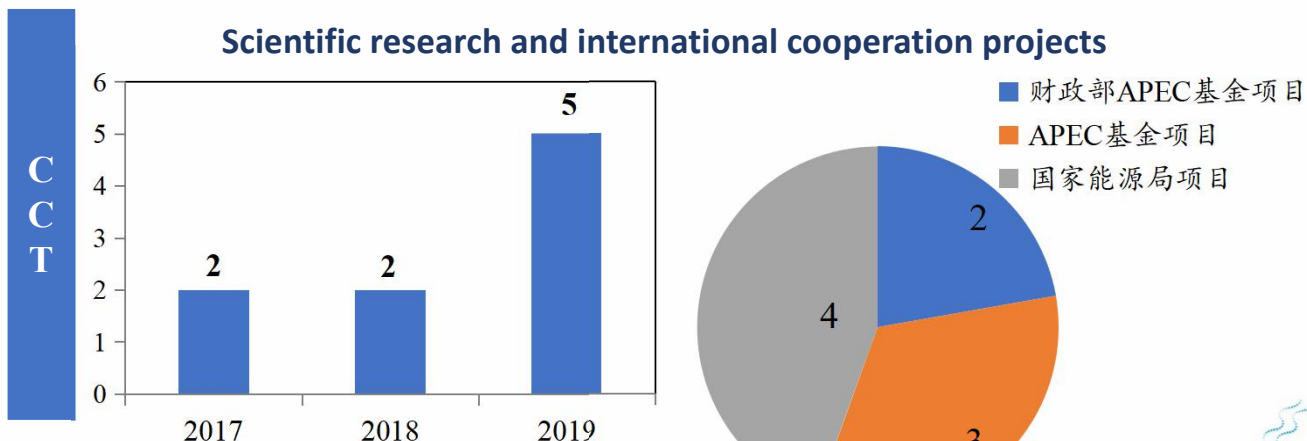


Publications of CCT



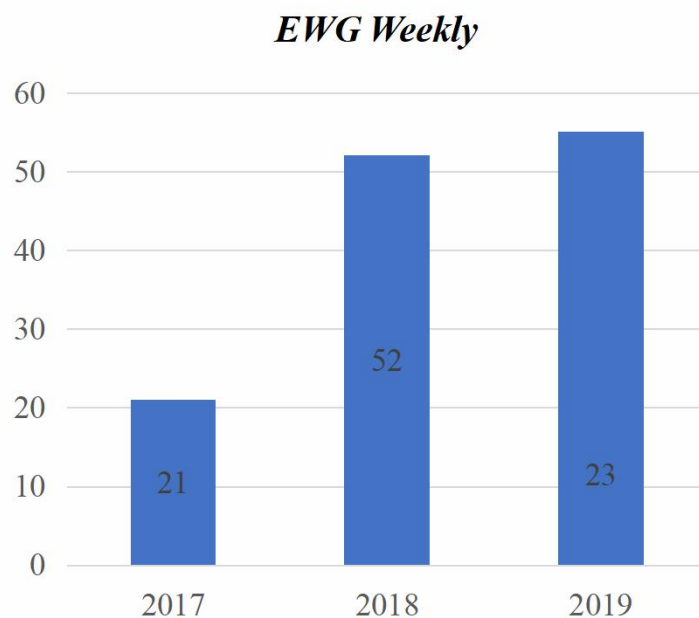
Project Research

C N S C	Year	Projects	Results
	2017	National Energy Administration project <i>APEC (China) Low Carbon Town Development Model Research.</i>	APEC (China) Low Carbon Town Development Model Research Report.
	2018	APEC Self-financing projects <i>EWG 11 2018S - Research on Effective Strategies for Overcoming the APEC Sustainable Urbanization Gaps.</i>	1. APEC publication <i>APEC Sustainable Urban Development Annual Report– From Models to Results</i> 2. Chinese books <i>Towards Sustainable Cities: APEC Case and China's Practice.</i>
	2019	NEA project <i>The Form and Excellent Practice of Sustainable Urban Low Carbon Energy System</i> ; APEC Self-financing project <i>EWG 12 2018S - Research on Forms of Low-carbon Energy System and Best Practices for APEC Sustainable Cities.</i>	1. Research report <i>The Form and Excellent Practice of Sustainable Urban Low Carbon Energy System.</i> 2. Research report <i>Research on Forms of Low-carbon Energy System and Best Practices for APEC Sustainable Cities.</i>



Information Analysis

Weekly submission of EWG News Letter Weekly, monthly Working Reports, annual publication of “Analysis of the status quo and trend of energy cooperation in APEC region” to provide reference materials for the National Energy Administration to carry out APEC energy international cooperation. A total of 102 news letters and 30 working reports were submitted.

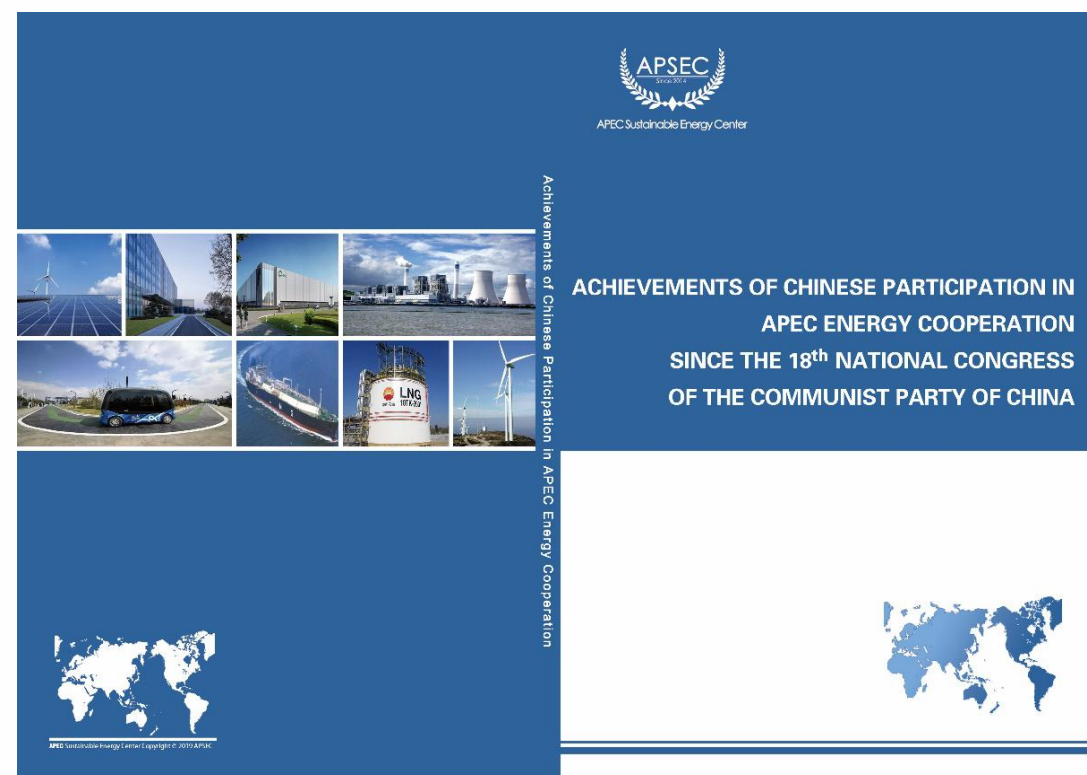


Year	Analysis report of the status quo and trend of energy cooperation in APEC region
2017	Analysis of the status quo and trend of energy cooperation in APEC region (APEC projects) Analysis of the status quo and trend of energy cooperation in APEC region (APEC activities)
2018	《Report on China's participation in APEC energy cooperation 2006-2017》



Analysis Report

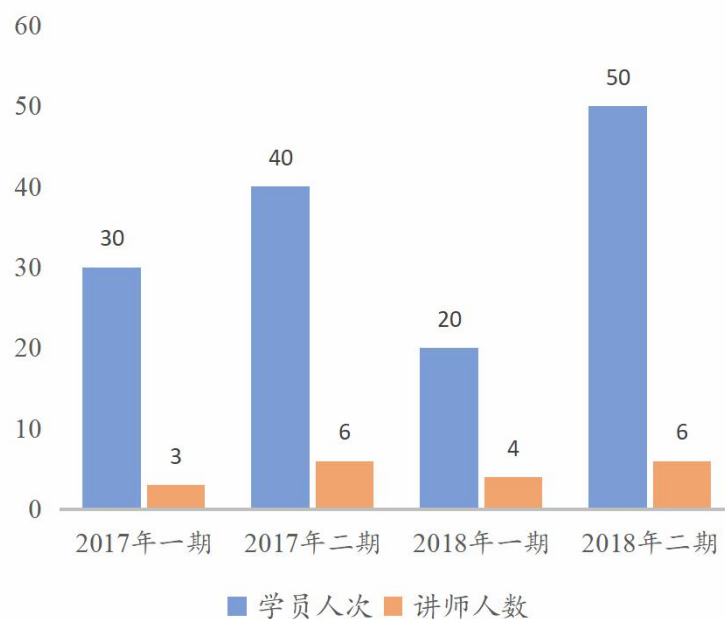
In order to actively respond to the new opportunities and new challenges brought about by the adjustment of the global pattern and the tremendous changes in the world situation, NEA has made active strategic deployment and work arrangements in deepening and broadening Chinese participation in APEC energy. This report systematically sorts out the main work and important achievements of this period.



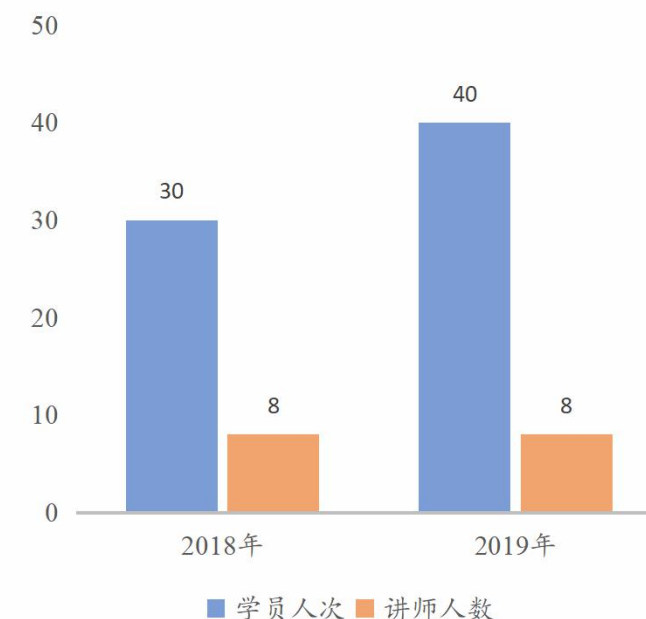
Training & Awards

APSEC has provided 6 training sessions for more than 200 participants from 15 economies in APEC, invited 27 lecturers from 7 economies, and produced 3 sets of textbooks.

CNSC trainings



CCT trainings

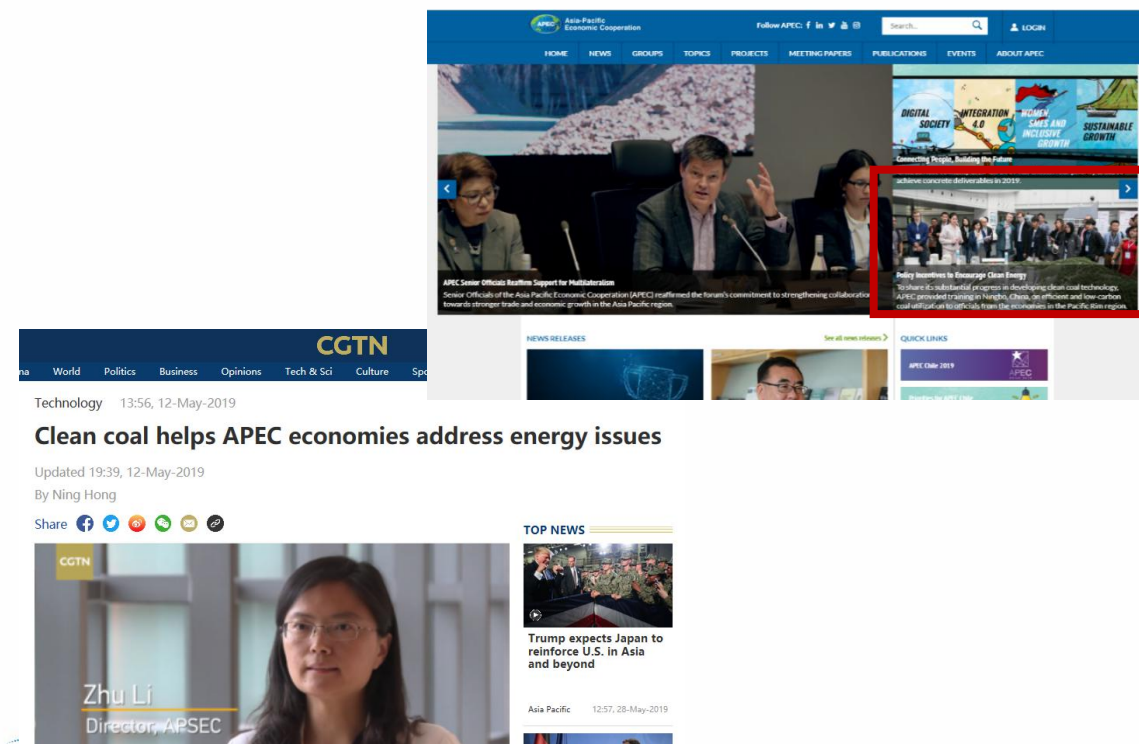


CCT Training in Ningbo



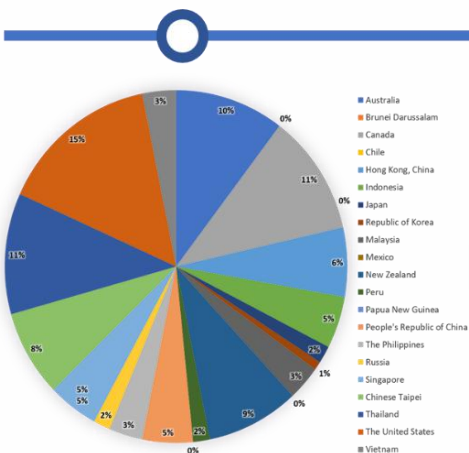
40 representatives from 10 APEC economies participated in this exchange and training activity. The Lead Shepherd of the APEC Energy Working Group praised this exchange and training activity as the most comprehensive and successful in the field of clean coal technology under APEC Energy Working Group for the past decade.

Exchange and Training on Clean Coal Technology and Clean Energy Policy was successfully held in Ningbo. For the first time, the APSEC event was promoted and reported to 21 APEC economies on the APEC official website, and China Global Television Network (CGTN) also featured a special report on this event.



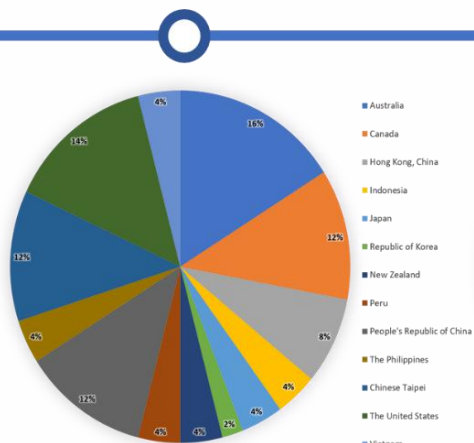
ESCI Award Breakthrough

4th ESCI Awards
Cases Submission



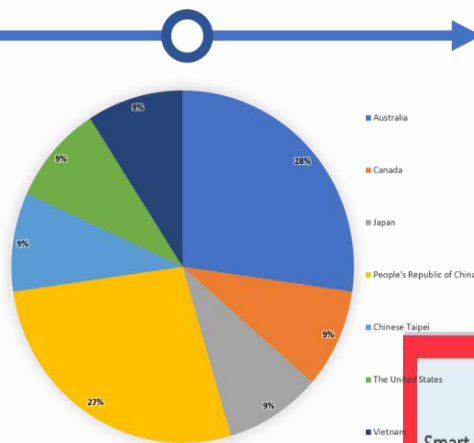
63/17

Semi-Final



25/13

Winners



11/13

(Project number/Economy number)

On July 5, the ESCI Organizing Committee announced that the three Chinese cases in the competition won the gold and silver awards of Smart Buildings and the silver award of Smart Grids respectively. Among them, the silver award of Smart Grids case - National Grid Smart Energy Microgrid system is jointly declared by Tianjin University and the State Grid Customer Service Center.

The Chinese cases won one gold and two silver!

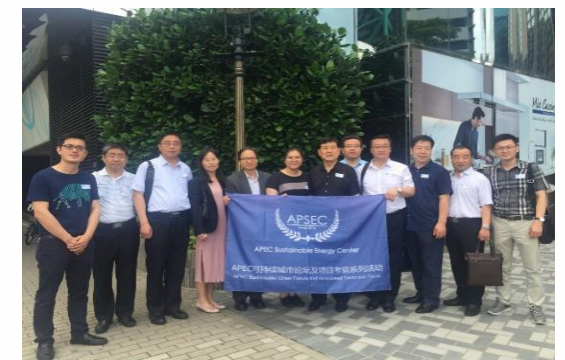


Smart Buildings	Gold	Design and Construction Integration (EPC) Project of PNG and China Friendship School—Butuka Academy	China
	Silver	Building Energy Efficiency Program—Xintang Center	China
Smart Grids	Gold	Aggregated Energy Management System (AEMS) for Smart Grids	Chinese Taipei
	Silver	Smart Integrated Energy Microgrid in Customer Service Center of State Grid Corporation of China	China



Technical Tours

Since 2016, the APEC Sustainable Energy Center has organized six international technical tours on energy and urban development, including Australia; New Zealand; Singapore; Indonesia and Hong Kong, China and the Philippines.



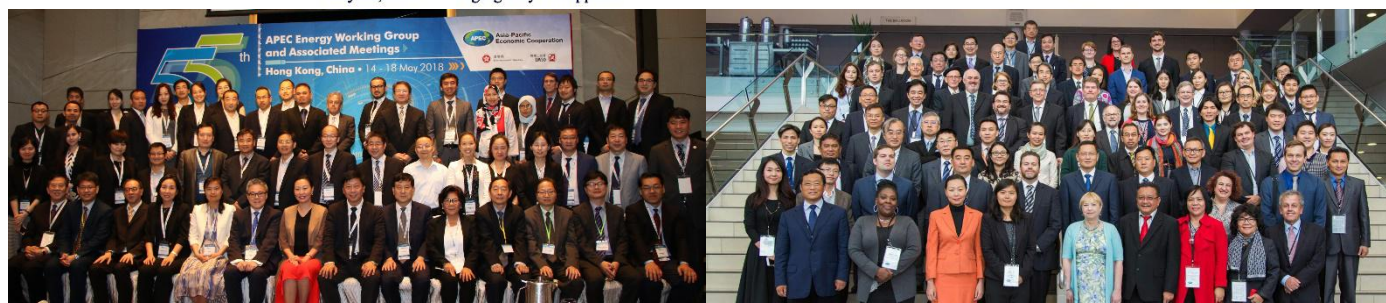
Annual Flagship Cities Workshop

APEC Workshop on Sustainable Cities



  **4th APEC Workshop on Sustainable Cities**
May 22, 2019 Taguig City-Philippines

  **2nd APEC Workshop on Sustainable Cities**
April 25, 2017 Singapore

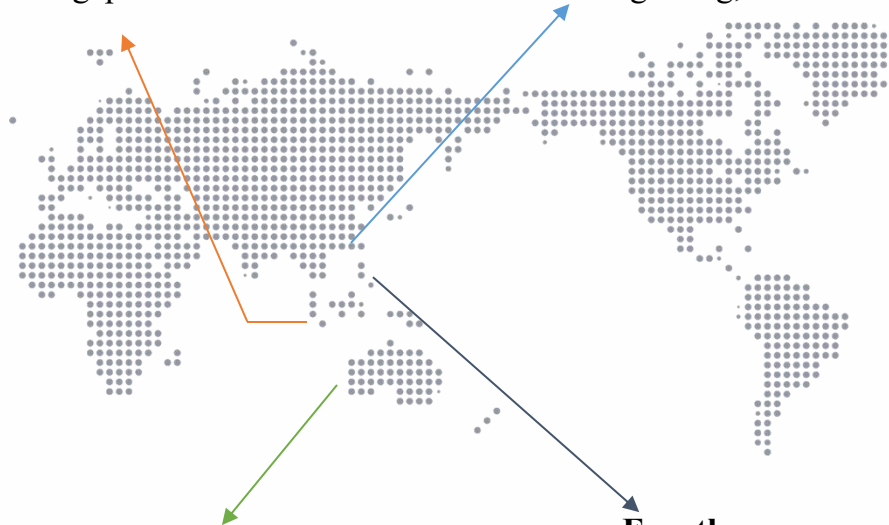


  **3rd APEC Workshop on Sustainable Cities**
May 15, 2018 Hongkong-China

  **1st APEC Workshop on Sustainable Cities**
May 9, 2016 Canberra-Australia

Second
April, 2017
Singapore

Third
May, 2018
Hong Kong, China



First
May, 2016
Canberra, Australia

Fourth
May, 2019
Taguig City, Philippines



Asia-Pacific Sustainable Energy Development Forum



**4th Asia-Pacific Energy
Sustainable Development Forum**
September 20-21, 2018 Tianjin • China



**2nd Asia-Pacific Energy
Sustainable Development Forum**
November 3-5, 2016 Tianjin • China



**3rd Asia-Pacific Energy
Sustainable Development Forum**
September 21-22, 2017 Tianjin • China

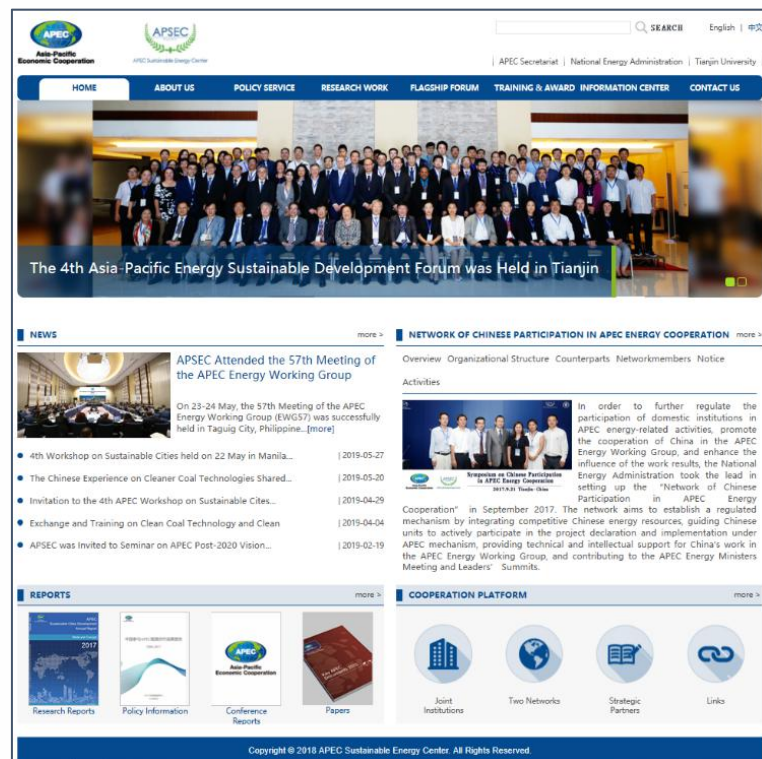


**1st Asia-Pacific Energy
Sustainable Development Forum**
September 21-22, 2015 Tianjin • China



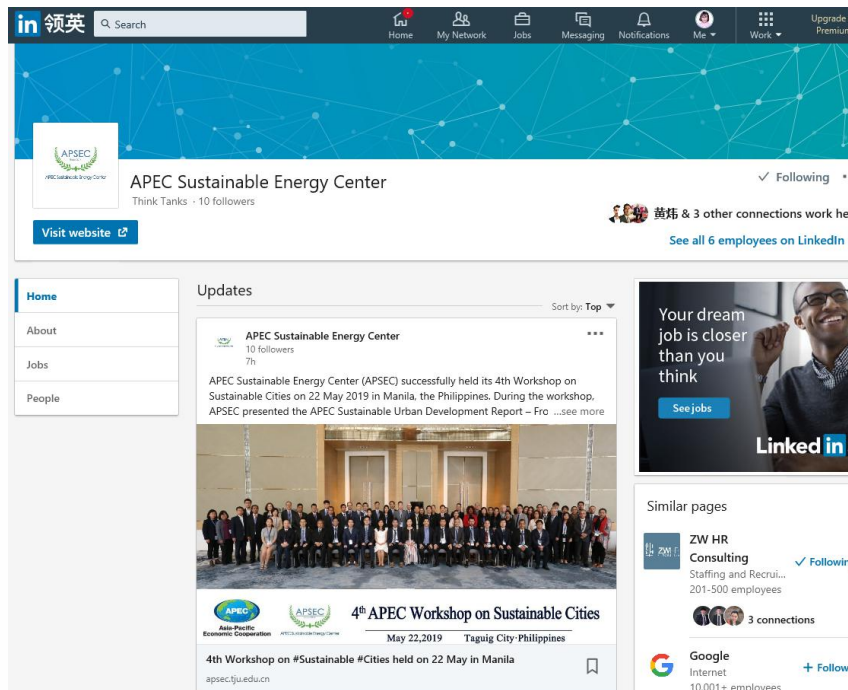
Official Website

<http://apsec.tju.edu.cn/>



Organization Page on LinkedIn

<https://www.linkedin.com/company/apsec-sustainable-energy-center>



WeChat Official Account



Weibo Official Account



Recognitions

APEC 可持续能源中心成立于 2014 年第 11 届 APEC 能源部长会议，是国家能源局牵头成立的第一家国际能源合作机构。自 APSEC 成立以来，国家能源局高度重视它的发展。经过五年建设发展和三年行动计划(2017-2019)的有效执行，APSEC 实体机制、支柱项目、咨政服务和信息平台建设从无到有，在国际交流、品牌论坛和研究工作方面成效显著。发布了首部 APEC 出版物《APEC 可持续城市发展报告—从模式到成果》(英文)，完成了咨政报告《十八大以来中国参与 APEC 能源合作成果回顾》(中英文)，成功举办了 APEC 能源工作组十多年来最成功的清洁煤技术培训，实现了我国在 APEC 能源智慧社区最佳实践奖获奖“零的突破”。这五年期间，APSEC 建设取得了显著成果，实现了良好发展，获得了 APEC 广泛认可。

未来 APSEC 中心打造成亚太地区的高端能源智库。
APSEC Sustainable Energy Center (APSEC) was established at the 11th APEC Energy Ministerial Meeting in 2014, and it's the first international energy organization led by National Energy Administration. Since its establishment, National Energy Administration has attached great importance to APSEC's development. After five years' construction and development as well as the effective implementation of the three-year work plan (2017-2019), APSEC has achieved breakthroughs in institutional building, pillar programs, think-tank services and information platform, achieved significance in international exchanges,



Key Conclusion of EWG57

23-24 May 2018

Manila, The Philippines

A. Project management:

1. Members are requested to reach relevant Project Overseers to submit the completion reports and monitoring reports of APEC projects on time.

B. EGs/TFs/Centres:

1. APERC is advised to make a report addressing energy security risks and issues for members' reinvestigation of Energy Security Initiative in EWG58 meeting.
2. Expert groups are advised to update contact lists regularly and to enhance outreach to enrich membership, especially from private sectors and academia.
3. EWG supports APSEC to continue its contribution to EWG for the next 5-year period.
4. Members are encouraged to provide timely and high-quality data to EGEDA.
5. APEC Energy Supply and Demand Outlook 7th edition:
 - Members are encouraged to disseminate key findings and conclusions domestically.
 - APERC is advised to report the findings to ABAC.
6. EGEEC is advised to discuss whether ESIS will be terminated in its next EG meeting and to report the decision in the next EWG meeting.

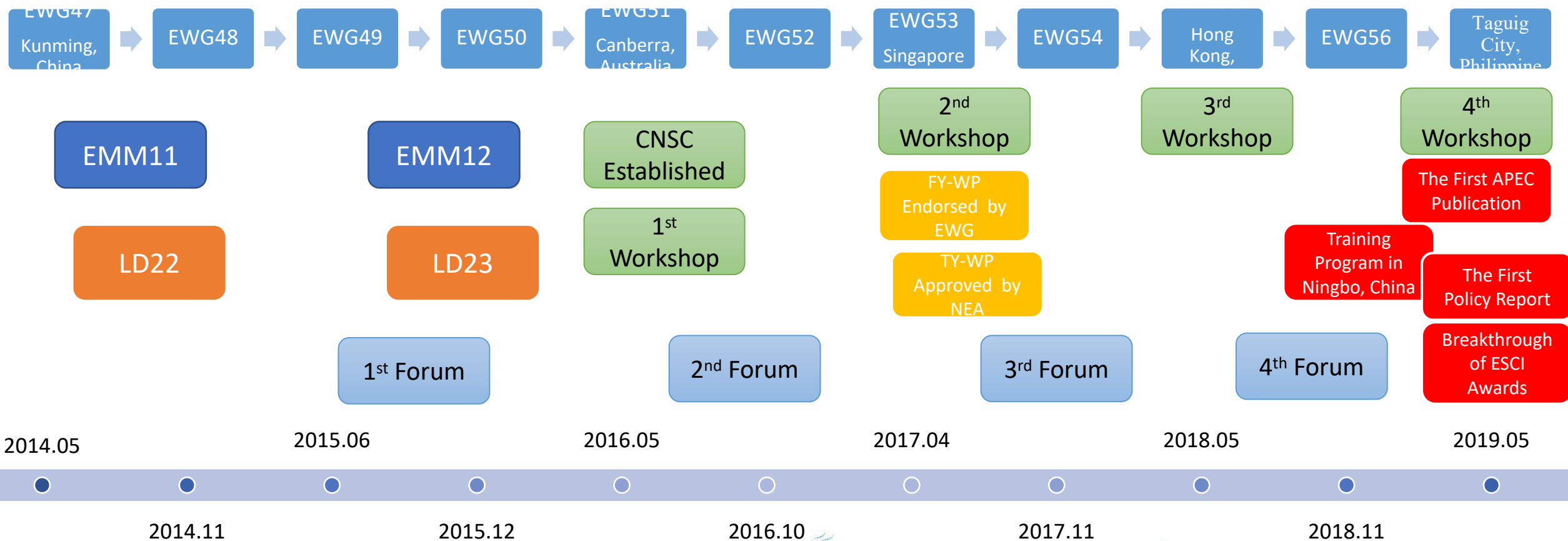


SUSTAINABILITY



PART FOUR

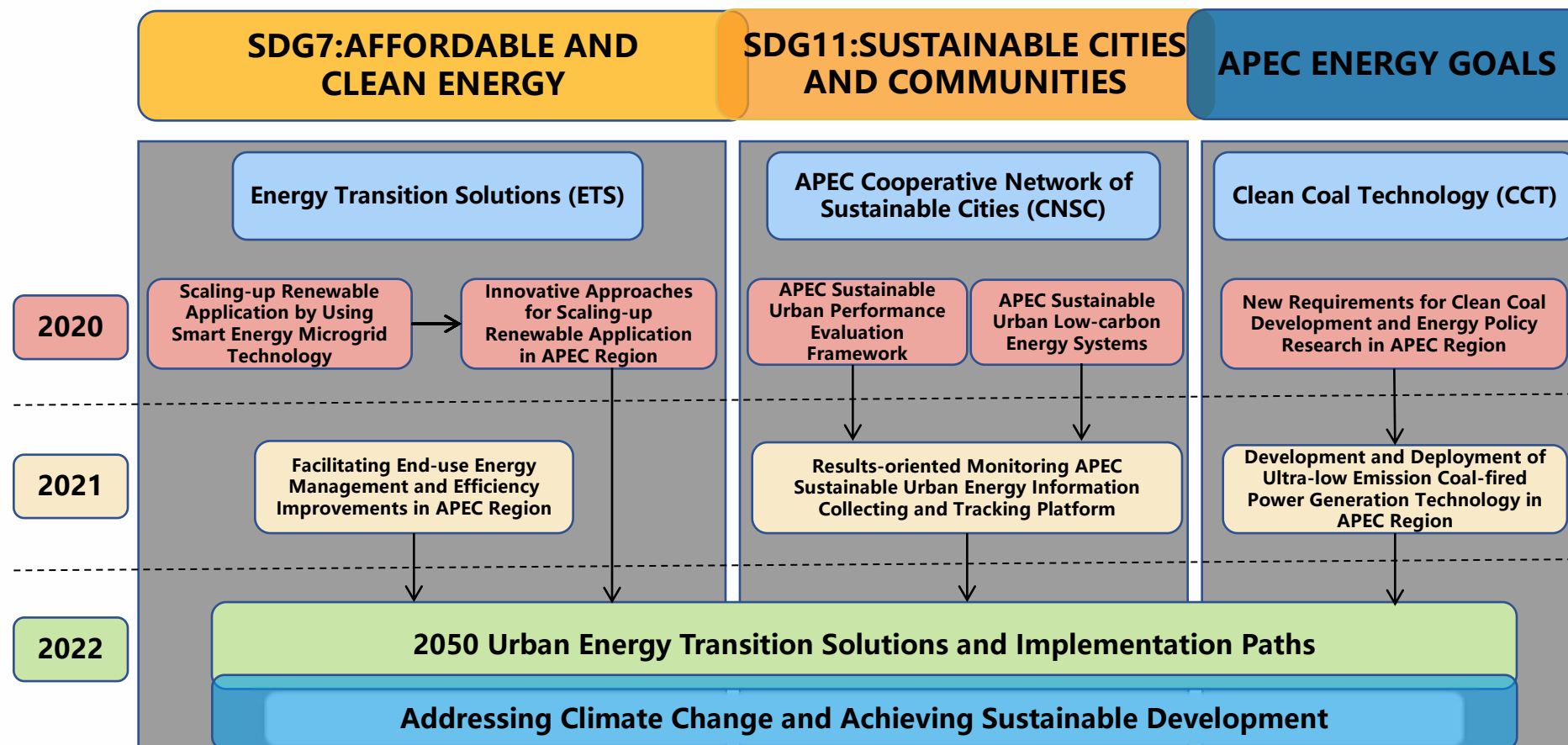
Ready for Entering the New Stage



New Three Work Plan (2020-2022)



New Three Work Plan (2020-2022)





THANK YOU!

