

International Cooperation

Research Project

We look forward to cooperating with leading scientists around the world on carbon neutral technologies.

- Carbon Neutrality and Energy System Transformation (CNEST) Program
- General research project

Technology Alliance



We jointly launched the International Joint Mission on Climate Change and Carbon Neutrality with leading multinational enterprises to promote international exchange and cooperation in strategic research, as well as technology research and application in related fields.

Academic Forum

- High-level Experts Dialogue



We invite top experts and scholars in low-carbon fields to share pioneering ideas of carbon neutrality.

- Young Researchers Seminar

We bring together young researchers from all over the world to discuss carbon neutrality topics.

- Students Academic Exchange Activities

We organize various academic exchange events to support the growth of students.

Technology Sparkling a Green Future



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清华大学 碳中和研究院
Institute for Carbon Neutrality, Tsinghua University



Introduction

The Institute for Carbon Neutrality, Tsinghua University (ICON) was established on September 22, 2021 as a global research institute advancing the achievement of carbon neutrality. It aims to facilitate technology innovations, applications and decision-making related to carbon neutrality through high-quality multidisciplinary research within the university, as well as through vibrant collaborations with national, regional, and local public and private partners.

Dean

HE Kebin

Academician, Chinese Academy of Engineering
Professor, Tsinghua University

Prof. He Kebin is the director of the Environment & Light and Textile Industries Engineering Division of Chinese Academy of Engineering, the vice chairman of the National Expert Committee for Ecology and Environmental Protection.

Prof. He is a leading expert on complex air pollution. His research focuses on the identification of particulate matters and complex air pollution, characterization of complicated emission sources and multi-pollutant control, and the coordinated control of air pollution and greenhouse gas emissions.

Our Objectives



Talent Cultivation
Base for Carbon
Neutrality



Key Technology
Research Center for
Carbon Neutrality



Domestic and
International
Cooperation and
Exchange Platform for
Carbon Neutrality



Communication
Platform for Carbon
Neutrality



High-end Think
Tank Strategy
Center for Carbon
Neutrality

Chief Scientists



JIANG Peixue

Academician of CAS
Vice president, Pro-
fessor of Depart-
ment of Energy and
Power
Engineering, Tsing-
hua University



KANG Chongqing

Dean and Professor,
Department of
Electrical
Engineering,
Tsinghua University



JIANG Yi

Academician of CAE
Professor of School
of Architecture,
Tsinghua University



OUYANG Minggao

Academician of CAS
Professor of School
of Vehicle and
Mobility, Tsinghua
University



YANG Wantai

Academician of CAS
Professor of
Department of
Chemical
Engineering,
Tsinghua University



HE Kebin

Academician of CAE
Dean of Institute for
Carbon Neutrality,
Professor of School
of Environment,
Tsinghua University



LI Zheng

Dean of ICCSD,
Professor of
Department of
Energy and Power
Engineering,
Tsinghua University



ZHANG Xiliang

Director of 3E,
Professor of
Institute of Nuclear
and New Energy
Technology,
Tsinghua University

Research Areas

Energy Supply

Low Carbon Energy and CCUS

Aiming to solve key scientific problems in low-carbon power production and CO₂ capture, storage and utilization.

New-type Power System

Focusing on building a new power system with a gradually increasing proportion of new energy.

System

Joint Pollution Control and Carbon Reduction

Exploring new principles, technologies and models for pollution reduction and carbon reduction synergy and efficiency in the environmental field.

Climate Change and Carbon Neutrality Strategy

Conducting research on strategic ideas and pathways to address climate change and carbon neutrality.

Energy Utilization

Zero Carbon Building

Focusing on solve the key basic scientific issues and major engineering problems in the field of building to achieve carbon neutrality

Zero Carbon Transportation

Devoting to realize the wide application of new energy power technology in land, sea and air transportation.

Industrial Deep Decarbonisation

Conducting research on the scientific basis, key technologies, assessment methods and system integration of deep industrial emission reduction.

Governance

Climate Governance and Carbon Finance

Focusing on the establishment of national and global climate governance systems and mechanisms for carbon neutrality and conducting carbon finance research.