



2018 Annual Report

Innovation Center for Energy and Transportation

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Letter from the Executive Director

Dear Friends and Supporters,

2019 marks our 13th year as an organization active in promoting clean transportation transformation, mitigating climate changes and advancing international collaborations on cleantech innovations. We are thrilled to be continually expanding our impact, pushing boundaries, and finding new and innovative ways to reduce dependence on fossil energy and greenhouse gas emission. For the past 13 years, the whole world has increased its reliance on clean energy solutions and electric mobility. Despite some setbacks amid turmoil, the world is still managed to take more actions to address climate change. At iCET, we are proud of the ways we have contributed to the continuous progress.

When we look back over the years, we are pleased that we have been able to accomplish so much. Among all the achievements, I am especially proud of our efforts to: help China establish a series of low-carbon transportation policies and standards; introduce California's ZEV regulation into China resulting in China's first NEV credit system; conduct a first-ever study on China timetable for phasing out internal combustion engine vehicles; initiate an energy and climate registration system for Chinese enterprises; form a global platform for cleantech innovation and collaboration, and establish a successful China Clean Transportation Partnership. These achievements illustrate our commitment to progress and meaningful change. They represent our values in action: Independence, Practicality, and Innovation.

Looking ahead we are eager to double our efforts to help the world transitioning into a clean and low-carbon future. We will focus on iCET's Clean Transportation Transformation Program (CTTP) with a mission to accelerate the transition to zero-emission e-mobility through standards, policies, technologies and consumer engagement. We will build on our Smart Energy and Carbon Management Program (SECMP) by taking advantage of smart technology innovation and green finance to dramatically reduce economy-wide greenhouse gas emissions. And finally, we will continue to develop our Cleantech Innovation and Corporation Program (CICP) to create cross-border multi-stakeholder platform for advancing clean technology collaboration and innovation globally.

There is still much work to be done and we depend on your support to help create a cleaner world. We find hope in the lessons we learn as we face daunting challenges and press forward to find solutions. We are excited to be among global leaders in an epic endeavor to clean-up global environment and fight against climate change.

Sincerely yours,

Feng An
Executive Director

About *i*CET



Innovating for a Cleaner World...

The Innovation Center for Energy and Transportation (*i*CET), a professional think tank in the areas of clean transportation, energy innovation, climate policy and international cleantech corporation, is an independent non-profit organization with offices in Los Angeles California and Beijing China. *i*CET's mission is to strengthen global collaboration and provide decision makers at all levels with the urgently needed innovative solutions to solve the energy, environment, and climate crises amid our fast-changing world.

iCET's Core Strengths: Independent * Practical * Innovative

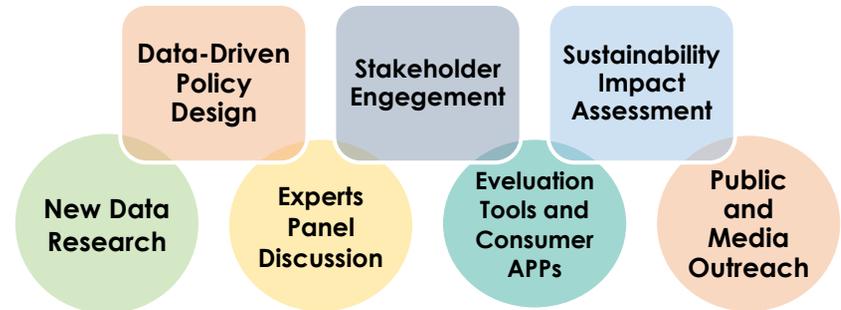
Over the years, iCET has carved out a unique reputation as a leader in promoting innovative clean energy and climate policies in China and internationally. We recognize the urgency of environmental challenges and are committed to the values and principles of innovation, sound scientific research, independence, and practicality. We focus on transformational changes in socio-technology and policies, harness private-public partnership to produce more efficient problem solving, embrace a green lifestyle, and work towards sustainable development. We cherish our fragile planet.

iCET's Three Core Programs

Our work is carried out through three core programs: The Clean Transportation Transformation Program (CTTP) aims to accelerate the transition towards zero-emission and electrification of transportation system through standards, policies, technology promotion and consumer engagement; The Smart Carbon Management and Green Finance Program aims to improve transparency for GHG reporting by taking advantage of big data and smart technologies to make it easier to measure, report, and verify (MRV) emission reductions for entities and consumers; The Cleantech Innovation and Corporation Program (CICP) is creating cross-border multi-stakeholder platforms to advance clean technology collaboration and innovation among major global players.

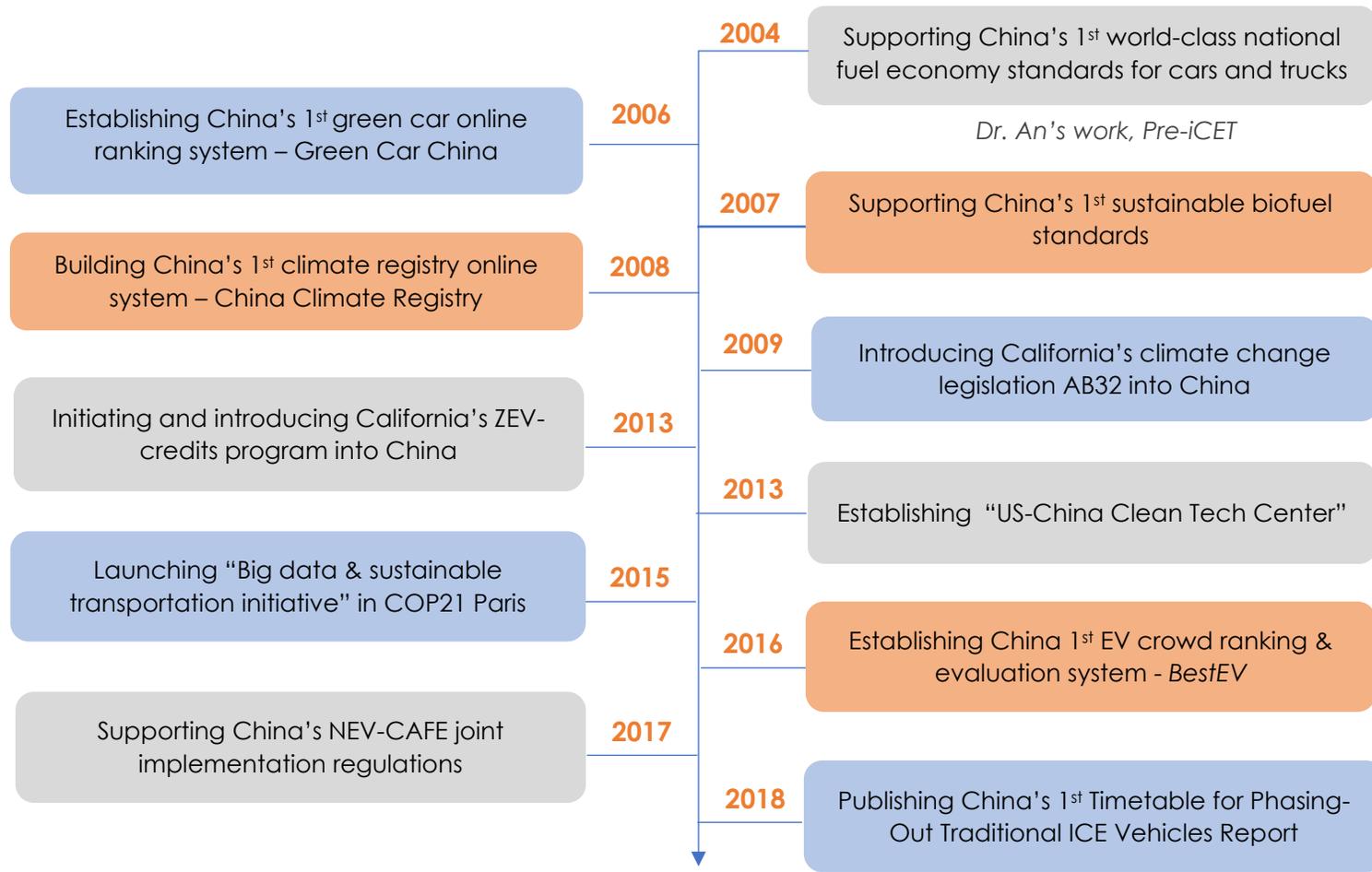
iCET's Approach

iCET adopts innovative approaches to accomplish its mission: Data-driven analysis for improved policy design, multi stakeholder engagement towards the formation of a shared vision, and locally adjusted sustainability impact assessments that are reliant on sound scientific analyses. We conduct cutting-edge research, host expert panel discussions, design tools and develop consumer infotainment apps, and create new inroads for public outreach.





*i*CET's Major Achievements



Programs

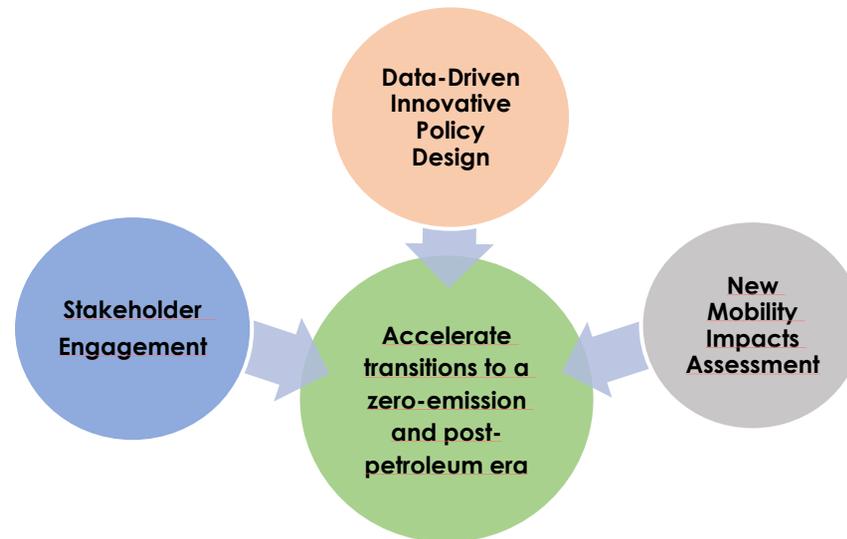


Clean Transportation Transformation Program (CTTP)

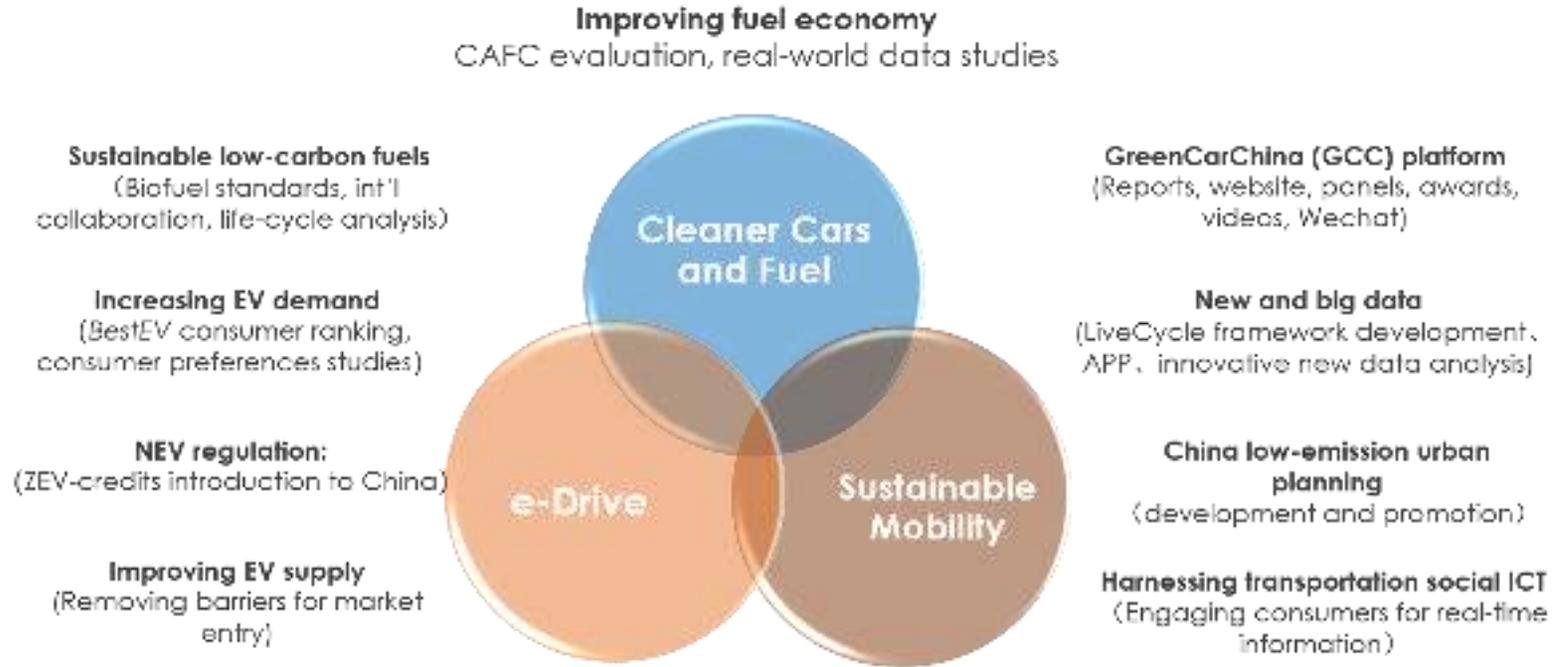
iCET's Clean Transportation Transformation Program's (CTTP) mission is to accelerate the transition of the transportation sector into a zero-emission and post-petroleum era

iCET's work aims to dramatically reduce fossil fuel use and carbon emissions, bring back blue sky, and promote sustainable mobility through smart decision making by consumers and policymakers enabled by sound scientific information as well as cutting edge data analytics.

One of our new projects is to work closely with key stakeholders to develop a first-ever "China Timetable" for phasing out traditional ICE Vehicles by regions, stages and vehicle types, and assess the impacts on oil dependency, regional air quality and industry transformation. We also continue our work on consumer engagement and education to improve quality and safety standards of new EV model offerings in China's blossom NEV market; and continue to evaluate the effectiveness of newly implemented NEV-CAFE joint management system.



As the world's largest and fastest growing auto market and consumer base, China must chart an aggressive path towards zero-emission and clean transportation. What takes place in China will have a great impact on the future of global mobility. Our work focuses primarily on personal transportation in the following areas:



Smart Energy and Carbon Management Program (SECMP)

We are living in a rapidly changing digital and technological world. Previously unimaginable, game-changing developments such as big data, artificial intelligence, autonomous driving, the shared economy, and blockchain technologies are on the rise.

The Smart Energy and Carbon Management Program focuses on improving the capacity to manage carbon emissions from diverse sources, evaluating the impacts of emerging technologies on energy and GHG emissions, and developing policy recommendations and green finance mechanism for achieving the goals of the Paris climate agreement.

Our primary focus is twofold: The first is to advance the “Measurable, Reportable and Verifiable (MRV)” principle by using big data and smart technology to track, report, and manage GHG emissions from various transportation and industry sources, and design policy and innovative financing mechanism to solve the problems accordingly. The second part of our work is to evaluate the impacts of emerging digital mobility technologies, such as vehicle connectivity, autonomous driving, and shared mobility, on urban travel and energy use.

China Climate Registry (CCR)

Climate change is one of the world's greatest challenges, and with it comes the urgent need for innovative solutions. The climate crisis requires the world to rapidly deploy new technologies, reform its existing business model, and foster new responsibilities from corporations and ordinary citizens. The Smart Carbon Management Program focuses on innovative approaches to address climate challenges: the strengthening of greenhouse gas emission data management, enlarging MRV capacity, and promoting international collaboration on climate-smart technology.

The climate and carbon registry – based on a powerful GHG MRV mechanism – represents the foundation of all climate policies, the ability to quantify emissions. iCET's China Climate Registry (CCR) is the first online voluntary GHG registration and educational system (ChinaClimateRegistry.org) available to governments, communities, and businesses to calculate and report their carbon inventories and footprint from stationary sources. Now iCET is striving to develop the next generation of MRV that relies on real-time big-data and distributed ledger technology that can be expanded to include mobile sources of emissions and consumer-facing industries.



ADB “Developing a Climate-Friendly Cooling Sector through Market and Financing Innovation” Project

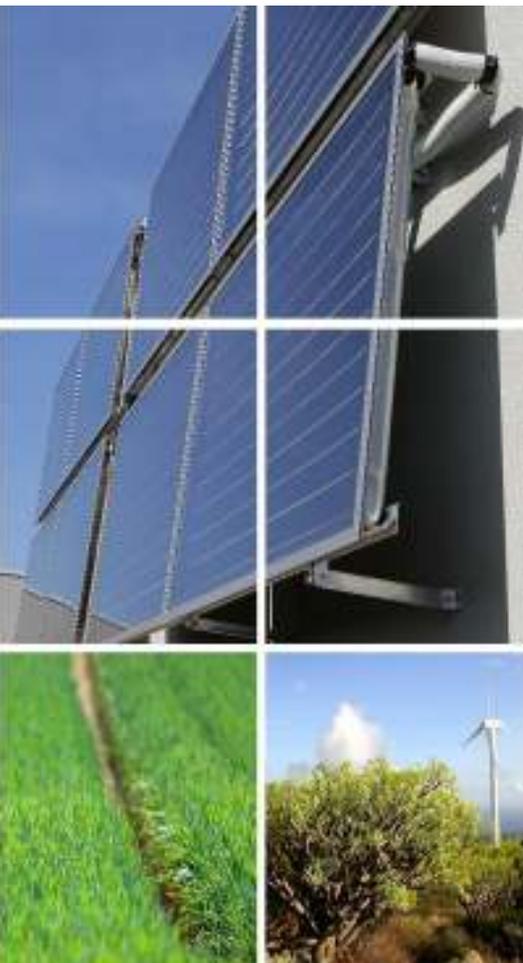
Carbon dioxide emissions from cooling sector account for 10% of the world's total. As an alternative, hydrofluorocarbons (HFCs) are widely used as refrigerants for refrigeration/air conditioning. Although they are harmless to the ozone layer, HFCs are a very strong greenhouse gas with a global warming potential (GWP) hundreds of times more than carbon dioxide (CO₂). Moreover, its annual growth rate of emissions is 10%-15%, the fastest growing one among all types of greenhouse gases (GHGs). By 2050, its emissions will account for 20% of total greenhouse gas emissions if no effective measures are taken to reverse this trend. The Global Clean Energy Ministerial Conference promotes large-scale development and deployment of efficient, intelligent, climate-friendly and affordable cooling technologies. The team of experts led by iCET won the first place in the technical assistance bid of the Asian Development Bank project and will implement the project of “Developing a Climate-Friendly Cooling Sector through Market and Financing Innovation” in Ningbo as a pilot city.



The overall goal of the project is to help Ningbo develop a climate-friendly energy-saving cooling plan that will improve the energy efficiency in various sectors. The project has four main tasks: 1) to conduct research on China's current policies on improving energy efficiency and reducing greenhouse gas emissions among cooling industry; 2) to evaluate and recommend advanced cooling technology; 3) to design viable business models and innovative financing mechanisms 4) to use the Internet and Internet of Things.

Cleantech Innovation and Corporation Program

China and US are the world's largest emitters of carbon dioxide. China and India are the homes to many of the world's most polluted cities. Countries around the globe are eagerly looking to collaborate with global cleantech leaders to further the UN sustainable development goals. In the fall of 2012, with support from strategic partners in China and US, iCET created the Cleantech Innovation and Corporation Program. The program aims to identify and promote clean technology innovations, best practices and business solutions through a global multi-stakeholder collaboration.



US-China Cleantech Center

The US-China Cleantech Center (UCCTC) is a joint-partnership program between iCET and the US Department of Commerce. It is dedicated to promoting US clean energy and environmental protection technologies and best practices in China. UCCTC brings together leaders from top companies and the sustainability field to network, promote, seek new clean technologies, and, together, shape the future of clean technology.

Tech Bank

We have created a Tech Bank that covers eight clean technology sectors: New Energy, Energy Efficiency, Clean Transportation, Recycling, Energy Storage/Distribution, New Materials, Waste/Pollution Treatment, Monitoring and Analysis and Smart Tech/Manufacturing. This data platform is designed to promote meaningful technical cooperation between the US and China. It provides immediate access to the people and resources actively impacting China's energy and environmental challenges and creates partnership opportunities for private and public sector stakeholders.

City Partnership

With high environmental technology demand from China, we developed strategic partnerships with several Chinese provinces and cities including cities in Guangdong, Jiangsu, Shandong as well as in Beijing, Shanghai and Tianjin. Through high level industry exchanges, capacity building workshops, management training, and the deployment of environmental protection technologies, we assist city governments and local industrial insiders to improve their knowledges of clean technology, encourage the adoption of relevant policies and best practices, and promote opportunities for collaboration in commercial green business.



2018 Highlights

iCET Released Report: "A Study on China's Timetable for Phasing-Out Traditional ICE Vehicles"

In May 2019, iCET released "A Study on China's Timetable for Phasing-Out Traditional ICE Vehicles" report, one of the important sub-jects of China's total oil consumption control and policy research project (referred to as the oil control research project). This is China's first publicly released research report on the "China timetable", which has attracted extensive attention around the world.

CAFC & NEV Dual-Credits Policy Officially Implemented

Since 2013, iCET has been working with partners to introduce California's zero-emission vehicle credit mechanism to China and to promote the construction of China's new energy vehicle credit trading system and implementation strategy. After four years of unremitting efforts, in April 2018, "Measures for the Parallel Administration of the Average Fuel Consumption and New Energy Vehicle Credits of Passenger Vehicle Enterprises" ("CAFC & NEV Dual Credits Policy") was officially implemented. iCET will continue to improve the mechanism by issuing "CAFC & NEV Dual-Credits Policy" research and results evaluation report, organizing theme salons etc.

BestEV System Continues to Promote Awareness Among Consumers

iCET established China's first crowd-sourced EV performance evaluation and ranking system - *BestEV*. In 2018, iCET released the "2018 *BestEV* List" through collecting car owners' evaluation of their electric cars and conducting in-depth research on hot topics to improve the potential consumers' objective cognition on electric vehicles.

China Future Mobility Impact Forum

In October 2018, the first "Future Mobility Impact Forum" was held in Beijing. As one of the sponsoring institutions, iCET hopes to make the forum a platform to address societal impacts of the future mobility developmental trends, and to drive more enterprises to actively and effectively participate in public welfare.

iCET Partners with Multi-Stakeholders to Promote "Zero Emission Mobility"

In 2018, iCET partnered with multiple platforms to promote "zero emissions mobility". The Energy Foundation China, iCET and the China Clean Transportation Partnership (CTTP) teamed up and organized a Zero-Emissions Mobility workshop in San Francisco in September 2018. In October 2018, iCET co-hosts "Leaping over the Age of Oil: Future Development of Electric Vehicles" Forum with NRDC and participated in World Economic Forum's "Global Zero-Emissions Transportation Initiative".

China Clean Transportation Partnership (CTTP) Formed

CTTP was formed as a high-level platform to foster communication, cooperation and joint research by top institutes and think tanks in clean transportation and related energy, climate, environment and sustainable development fields. It has now grown to 20 partners and its secretariat is based at iCET.

iCET Won 2018 Ford's "Annual Pioneer Award"

As one of the outstanding NGOs in the field of environmental protection, iCET won the "Annual Pioneer Award". The Ford CEGC Award has always supported the growth and development of China's environmental protection efforts.

2018 Reports and Briefs



A Study on China's Timetable for Phasing-out Traditional ICE-Vehicles

This study proposes a phase-out timetable for China's traditional internal combustion engine vehicles (ICEVs) based on vehicle development targets and technology projections for new energy vehicles (NEV). It suggests the phase-out action should be implemented following the principle of "by region, by vehicle category as well as step by step replacement." Detailed actions and policies are suggested, and uncertainties about the phase-out timetable for traditional ICEVs are analyzed. It is the first comprehensive report studying the ICEVs phase-out timetable.

China Passenger Vehicles CAFA-NEV Dual-Credits Research Report

Through analyses on the compliance of fuel consumption and NEV, the main conclusions in the report include: 1) The new energy vehicle credits policy plays a positive role in the rapid development of new energy vehicles and the strategic transformation of enterprises; 2) NEV preferential accounting reduces the CAFC value of the industry. In addition, the one-way compensation of credits relaxes the energy-saving requirements; 3) the difficulty of corporate CAFC compliance is increased in 2019-2020, but the compliance cost is still not high; 4) there will be a large number of NEV points remaining in 2019-2020. Based on the research results, the policy recommendations for perfecting the new energy vehicle credits in the next stage are proposed.

2019-2020 China NEC Credits Compliance Analysis

In 2018, the proportion of NEV credits in China's auto industry has reached 18% and exceeding the compliance ratio in 2020. However, at present, major companies yield about 70% of NEV products, and many traditional car companies with high sales volume have not yet launched NEV products. To this end, this report has carried out a scenario analysis of NEV production scale and credit production and compliance from 2019 to 2020 at the industry and enterprise levels. Based on the results, it provides recommendations for the businesses' future strategic planning and implementation of the CAFA-NEV dual-credit policy.

2018 Real-World Mileage and Fuel Consumption New Data Analysis for Passenger Cars in China

Based on the fuel consumption of passenger cars provided by the Bear Oil APP and the OBD (Zhijixing) APP, this report continues to track and analyze the real-world mileage and actual fuel consumption of the Chinese passenger fleet. This marks the fourth year of iCET's cooperation with the Bear Oil APP, and the second year with Zhizhixing APP to conduct research on fuel consumption and VKT. At the same time, the focus of this study shifts from the actual fuel consumption of single vehicle and working conditions to vehicle travel behavior (mainly the mileage VKT) and the actual fuel consumption difference of the vehicle. It aims to provide more parameters for actual road monitoring of passenger vehicles to better improve policy.

2018 Green Car China Annual Report

The China Green Car Project was launched in 2006 and has been publicly released since 2010. It has been more than ten years old and the public influence has been continuously improved. Based on the latest revised methodology, the China Green Car Project conducted a green assessment and ranking of the top ten models including PHEV and the top 100 models sold in the past year to help consumers choose a car with less damage to the environment, and practicing a green lifestyle.

New Energy Passenger Vehicle Market Openness Index Report

This study proposed a new index for assessing relative market openness for competitive NEV development: "the NEV Market Openness Index". The index was developed on the basis of conventional diversity combined with penetration indexes, both adopted from biological studies, with a particular focus on passenger NEVs. Through the actual performance of the new energy vehicle market, it intuitively reflects the differences in the policy making of new energy vehicles, industry and market implementation in each region, and then analyzes the problems and root causes of local protection.

NEV Credits Impact Evaluation Tool v2.0

The excel-based NEV credits impact evaluation tool is designed to support policy-design, impact evaluation research, and company compliance strategy with China's new CAFC and NEV credits joint management mechanism. The tool offers a comparison between two NEV credits designs (default are the MIT's NEV credits and California's ZEV designs), manufacturing projections based on Game Theory inputs, and resulted NEV volume and subsequent carbon emissions reduction. Users can change some of the data and assumptions to fit their own case studies.

2018 Green Car China Methodology Upgrade Report

Green Car China Methodology Upgrade Report (2018) mainly refers to the GREENCAR Rating System issued by the American Council for an Energy-Efficient Economy (ACEEE). Based on real-world fuel consumption and emission standards in China, the 2018 report presents the latest revision and updates. Meanwhile, the new methodology report still provides vehicle life-cycle health and environment impact assessment (Green Score) based on parameters like fuel consumption, curb weight and pollutant emission, as well as assesses air quality impacts of vehicles (Blue Score) based on vehicle pollutants emissions. Additionally, the new report adjusts the fuel cost calculation parameters and add the life-cycle evaluation method of the plug-in hybrid vehicle (PHEV). The new methodology will be used as the calculation reference for the China Green Car Finalists in 2018 and beyond.

2018 U.S. Renewable Fuel Standard (RFS): Implementation and Market Development

The report updates the implementation and market development of the U.S. Renewable Fuel Standard (RFS), and introduces the RFS management mechanism, especially the traceability management of RIN codes. The RINs code is conducive to supervision on raw materials, production, distribution and mixture of multiple links. Through information and data collection, the RINs code contributes to effective adjustment of management methods and responding measures, which can be applied for establishment and promotion of the operation mechanism of the biofuel market in China.

An aerial photograph showing a winding asphalt road that curves through a dense, vibrant green forest. To the left of the road is a large, calm body of water with a deep blue hue. The road has a white dashed line down the center and a solid white line on the right edge. A single white car is visible on the road, moving away from the viewer. The overall scene is serene and natural.

2018 Main Events



iCET, EFC and CCTP successfully held the Zero Emissions Mobility workshop of the Global Climate Action Summit in San Francisco

(Sep 2018, San Francisco)



The Energy Foundation China, iCET and the China Clean Transportation Partnership (CCTP) teamed up and organized a Zero-Emissions Mobility workshop in San Francisco on September 12. The workshop was held as a side event to the Global Climate Action Summit 2018. The workshop was designed for thought-leaders, entrepreneurs and policy makers from US, China and Europe to discuss how achieving zero-emission mobility can be enabled by technology and policy innovation.

"Leaping over the Age of Oil: Future Development of Electric Vehicles" Forum

(Oct 2018, Beijing)



The forum "Leaping over the Age of Oil: Future Development of Electric Vehicles" at the China National Convention Center in Beijing, which is held by the Natural Resources Defense Council (NRDC), the coordinating organization for the China Oil Cap Project, and the Innovation Center for Energy and Transportation (iCET). Experts from the Energy Research Institute at the National Development and Reform Commission, the Chinese Academy of Sciences, the China Academy of Transportation Sciences, the China Automotive Technology, and other research institutes, as well as representatives from different cities and industries gathered together to discuss key issues related to the evolution of transportation, and the influence of the development of electric vehicles on the future of transportation, energy, and the environment system in China.





The 2018 China Future Mobility Impact Forum (FMIF'08)

(Oct 2018, Beijing)

The Forum is comprised of four sessions: **Imagining the Future, Serving the Society, Protecting the Planet Earth** and **Honoring the Leaders**. Vehicle Emission Control Center of Ministry of Environmental Protection, China Environmental Protection Foundation, China Foundation for Poverty Alleviation, New Future Fund, Energy Foundation, the Rockefeller Brothers Foundation, the SEE Foundation, as well as representatives from NGOs, Media and auto manufacturers participated the forum. More than 200 invited guests attended the forum.

2018 U.S. – China Cleantech Summit

(May 2018, Guangzhou)

On May 17, 2018, the "2018 China-US Cleantech Summit" was held in Guangzhou White Swan Hotel. The summit was jointly sponsored by the Guangdong Provincial Government and US-China Cleantech Center to strengthen the pragmatic cooperation between China and the United States in the field of clean technology, and to accelerate the application and industrialization of high-quality technology in both countries. The summit attracted more than 400 people from government agencies, professional institutions, Fortune 500 companies, American innovation technology companies and Chinese industry-leading companies. Representatives participated in in-depth discussions and exchanged experiences on hot topic topics including smart cities, clean energy, environmental technology and clean and intelligent transportation.



The iCET "BestEV" Project (Phase II) officially launched (April 2018)

iCET held the launch meeting for the iCET "BestEV" Project (Phase II). Over twenty clean transportation experts, from government agencies, private enterprises, media and research institutes, gathered to witness the launch of the "BestEV" Project (Phase II) and arouse stormy discussion on indicator adjustment and dissertation promotion of the project.

China NEV Market Openness Index Report- Media Conference (May 2018)

On May 29, 2018, the Energy and Transportation Innovation Center (iCET) officially released the "New Energy Vehicle Market Openness Index Report", which evaluated and analyzed the actual performance of the new energy passenger vehicle market in various cities in China.

BestEV Interim Achievements Partner Seminar - Everything comes from the voice of the car-owner (Sept 2018)

On the afternoon of September 7, 2018, BestEV invited partners, agency representatives and media representatives to gather in Beijing, and conducted a BestEV Interim Achievement Partner Seminar. The seminar mainly shared the progress of BestEV at current stage, the upcoming BestEV 2.0 Beta evaluation system, the owner's activity and the next phase of the project plan.



中国清洁能源伙伴关系
CHINA CLEAN TRANSPORTATION PARTNERSHIP

2018 China Clean Transportation Partnership Launch Meeting (Feb 2018)

On February 6, the China Clean Transportation Partnership (CCTP) kick-off meeting was held in Beijing. The CCTP Steering Committee and the Executive Committee participated to discuss and plan the future development and influence of CCTP. CCTP will absorb more institutions with strong policy research, technological innovation capabilities and social influence, to focus on policy and technological innovation, summarize, publicize and promote international, Chinese and local advanced experience, and accelerate the transformation of traffic cleanliness.

Theme Salon: Application of New Energy Vehicle Big Data in Transportation, Energy Saving and Emission Reduction (Mar 2018)

The salon was hosted by CCTP Partner, Shanghai New Energy Vehicle Public Data Collection and Monitoring Research Center. More than 30 experts and scholars from 18 institutions participated in the process to sort out the existing data resources in the China Clean Transportation Partnership to explore cooperation potential. At the same time, the salon also discussed how new energy vehicle data can serve policy formulation and innovation in the fields of transportation, energy conservation and emission reduction.

Theme Salon: Integrated Management of Diesel Trucks and Development Opportunities for Natural Gas Vehicles (July 2018)

The third workshop of China Clean Transportation Partnership, with the theme of "Comprehensive Management of Diesel Trucks and Development Opportunities of Natural Gas Trucks", was successfully held on the morning of July 9th. The salon was hosted by CCTP partner -- Planning and Research Institute of the Ministry of Transport. More than ten related institutions, including the Department of Atmospheric Environment Management of the Ministry of Ecology and Environment, attended the salon and participated in discussions.

Theme Salon: How to lead the development of new energy logistic vehicles in a healthy way in the new era? (Oct 2018)

The 4th workshop of the China Clean Transportation Partnership (CCTP) "How to lead the development of new energy logistic vehicles in a healthy way in the new era," was successfully held in Beijing on October 16, 2018. The workshop was co-hosted by the Beijing Transport Institute, a founding member partner of the CCTP. Twenty-four experts and scholars from 17 organizations in the clean transportation sector joined the workshop to discuss commercial NEV subsidies, share experiences, and brainstorm pathways to further promote new energy logistic vehicles on the national and local levels.

Team, Board of Directors and Advisors



iCET Team



Dr. Feng An
Executive Director



Maya Ben Dror
Program Director
Clean Transportation



Liping Kang
Senior Manager Clean
Transportation



Emma Wang
Program Manager Clean
Transportation



Raining Bao
Program Officer
Cleantech
Development



Tracy Wang
Project Officer China
Clean Transportation
Partnership



Jiameizi Jia
Project Officer China
Clean Transportation
Partnership



Lanzhi Qin
Senior Research Analyst
Clean Transportation



Shiyue Mao
Research Analyst
Clean Transportation



Dr. Green-Weiskel
Senior Consultant
Climate Smart
Policies



Jessica Zhang
Communication
Officer



Li Chen
Administration and
Finance Specialist

Board of Directors and Advisors



Dr. Binglin Gu
17th President, Tsinghua University Member, Chinese Academy of Sciences



David B. Sandalow
Former Under Secretary of Energy at the U.S. DOE Inaugural Fellow at Columbia University's Center on Global Energy Policy



Linda Adams
Former Secretary of Environmental Protection, California EPA Partner of Cleantech Advocates



Dr. Kebin He
Dean and Professor of School of Environment Tsinghua University



Dr. Feng An
Executive Director of Innovation Center for Energy and Transportation



Junfeng Li
Director General of Climate Change Strategy, National Development and Reform Commission of China



Jim D. Boyd
Former Commissioner of California Energy Commission President



Hal Harvey
CEO, Energy Innovation: Policy and Technology LLC



Dr. Daniel Sperling
Acting Director of Energy Efficiency Center, Founding Director of Institute of Transportation Studies, UC Davis



Dr. Fuqiang Yang
Senior Adviser, Climate, Energy and Environment for the NRDC



Dr. Dadi Zhou
Vice Chairman, China Energy Research Association Director, China Energy Economy Professional Committee



Katherine Blumberg
Director, Climate and Health Programs of the International Council on Clean Transportation



Dr. John DeCicco
Professor of Practice of School of Natural Resources and Environment Research Professor, University of Michigan Energy Institute



Elizabeth Economy
Director, Asia Studies of the Council on Foreign Relations Expert on China-U.S. relations



Barbara Finamore
Senior Strategic Director, China Program, NRDC Senior Attorney



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The Stern Review on the Economics of
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