

Dear partners, dear friends,

Merry Christmas! 圣诞快乐!

Thank you for your continued trust and engagement in the challenging year 2020. We are looking forward to achieving further joint success with you in 2021!

Sino-German Energy Partnership
Sino-German Energy Transition Project

www.energypartnership.cn



2020 has been a difficult and changed year for all of us. Covid-19 led to far-reaching social and economic impacts around the world and we will always remember those we lost and the disruption and other challenges that it brought to our individual lives. For those of us engaged in international cooperation, 2020 brought in-person exchange to a halt, and online activities could substitute for but never fully replace the connections that come from experiencing and learning on the ground. We believe that 2020 has left our collective hope and trust in the value of building a more sustainable future intact, and shown the importance of Sino-German cooperation for accelerating the global energy transition. Despite all challenges, together we achieved many joint outputs in 2020, which will serve as a foundation for future collaboration.

During this festive season, as most of us stay at home to protect one another, we'd like to share with you a Holiday Reading List of our recent project publications. We wish you and your loved ones good health, festive holidays and a good start into the new year, and wish you an enjoyable and interesting read!

Sino-German Energy Partnership & Sino-German Energy Transition Project

Holiday Reading List

Accelerating the Energy Transitions in China and Germany

China Energy Transition Status Report 2020

As the Sino-German Energy Transition project embarked on a new 3-year phase at the beginning of 2020, we felt it was a good time to take stock of China's energy transition, to analyze how far China has come and what hot topics need to be addressed in the next phase of our work. The report coincides with the publication of a draft Energy Law, as well as discussions of green economic stimulus in the wake of Covid-19, and both these topics are addressed in this document.

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Biomethane Production and Grid Injection in Germany

The report presents German experiences with policies, incentives, technologies, standards and business models for biomethane production and grid injection, and discusses implications and applicability for China. Suggestions for China include improving policies and regulations, establishing a biomethane monitoring system, setting industry standards, as well as introducing new testing and certification procedures.

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Energy Storage in Germany

In Germany, energy storage has experienced a dynamic market environment in recent years, particularly for providing ancillary services, and in home applications. This report "Energy Storage in Germany – Present Developments and Applicability in China" sheds light on the important topic of energy storage. It describes the role of and framework for energy storage in Germany and provides case studies on different storage applications.

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A Quantitative Comparative Study of Power System Flexibility in Jing-Jin-Ji and Germany

In this report, researchers used five metrics to quantify flexibility in Germany versus Jing-Jin-Ji (Beijing-Tianjin-Hebei) region of China. The overall results show that the Jing-Jin-Ji region lacks the flexibility of Germany's power system. In particular, North Hebei has a relatively high loss-of-load-probability (LOLP), in both winter and summer, as well as lacking downward flexibility in both seasons.

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Sustainable Structural Change and Urban Energy Transitions

Changing economics of fossil fuels and the energy transition away from coal poses a challenge for coal mining regions. The Ruhr Area in Germany already has undergone this transition and holds valuable lessons to Chinese coal or industrial regions that are facing similar changes. The Sino-German Climate Partnership has gathered these lessons learnt in a publication that also contains three cities as case studies – Bottrop, Essen and Dortmund.

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Developing Sustainable Energy and Climate Action Plans

Municipalities are a central field of action for combating climate change and the transition to a low-carbon energy system. What is particularly challenging to administrations and policymakers is that climate action is a cross-cutting task that affects all policy areas. Therefore, this kind of transformation requires an overarching plan. Sustainable Energy and Climate Action Plans (SECAP) represent such a plan and form a cornerstone of municipal climate action and energy transition in Germany and Europe.

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German Sustainable Heating Solutions

This report identifies relevant German best practices in the field of sustainable heating for the transformation of China's heating and cooling market. The focus is on implemented, innovative, sustainable and integrated heat generation and heat supply solutions, taking into account local conditions (resources) and economic framework conditions (business models). The study draws from existing and implemented solutions and experiences in Germany's heating sector.

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Incentivizing Flexibility: The Role of the Power Market in Germany

The study examines flexibility enablers in the German power market. It highlights how changes in the system design and operation, as well as market liberalization and the introduction of spot markets and intra-day trading, amongst others, has helped Germany to increase system flexibility and provide optimal conditions for the grid-integration of renewable energy.

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