



OPTRES100

A Sino-German cooperation project 中德合作项目



<https://www.optres100.de/optres-100-en/>
<https://www.optres100.de/optres-100-cn/>

OPTRES100

- Supported by the Federal Ministry of Education and Research and the Chinese Ministry of Science and Technology (由德国联邦教育与研究部和中国科技部共同资助)
- Challenge: By 2050, renewable energy sources (RES) may reach shares approaching 100% of electricity generation. This poses essential challenges for their integration into the physical electricity system and the power markets. (挑战：截止到2050年，可再生能源发电比重或接近100%。这给可再生能源整合进入电力系统和电力市场提出了重大挑战。)
- Topics (议题)
 1. Analytical tools and energy systems analysis at the national Chinese level (Partners at Beihang University and CAS)
中国国家层面的能源分析工具与能源系统分析 (北京航空航天大学和中国科学院合作伙伴)
 2. Supranational integration of power systems beyond China (ENERTILE model, <https://www.enertile.eu>) (Fraunhofer ISI)
中国以外的电力系统超国家一体化
(ENERTILE模型, <https://www.enertile.eu>) (弗劳恩霍夫系统与创新研究所)
 3. **Climate Networks for Demand Response, Energy Efficiency and Renewables** (IREES, SGERI, GIZ, Fraunhofer ISI)
需求响应、能源效率与新能源融合的气候网络
(IREES、国网能源研究院有限公司、德国国际合作机构、弗劳恩霍夫系统与创新研究所)
 4. Interaction between Chinese and German partners and the stakeholders (all partners)
中德合作伙伴交流 (所有合作伙伴)

OPTRES100 – Activities (项目活动)

- Modelling of the Chinese power system in interaction with neighbouring countries

建模中国电力系统与邻国间交互

- **Special Issue “Modelling Long-term Greenhouse Gas Reduction Strategies towards Climate Neutrality”, Journal Computers & Industrial Engineering (CAIE) (2022).**

《计算机与工业工程》杂志 (CAIE) 上的特刊“为实现气候中立的长期温室气体减排战略建模”。

- Online event with GIZ China on the topic **“From energy efficiency to climate neutrality networks”**

与德国国际合作机构共同举办主题为“从能源效率到气候中和网络”的线上活动

- Session at the IAAE International Online Conference (June 2021) on **“Greenhouse Gas Reduction Strategies and Future Electricity Markets “**

IAEE国际在线会议 (2021年6月) 关于“温室气体减排战略和未来电力市场”部分发表了演讲

- Conference **“Analyzing and Designing Policies and Markets for Large-Scale Utilization of Renewable Energy Sources”** (Beijing June 2019)

会议发表《大规模使用可再生能源的市场政策分析与设计》(北京 2019年6月)

- Workshop on **Greening industry parks, energy efficiency networks and demand response** organized by the National Energy Conservation Center of NDRC (NECC), GIZ and Fraunhofer ISI (June 2019)

中华人民共和国国家发展和改革委员会国家节能中心、德国国际合作机构与弗劳恩霍夫系统与创新研究所共同举办了关于绿色工业园区、能与效率网络与需求响应的网络研讨会

