# Qi Ding

(+86) 18019150686

dingq23@mails.tsinghua.edu.cn

## EDUCATION

**Tsinghua University**, Institute of Energy, Environment, and Economy, *Ph.D. in Management Science and Engineering*                    2023.09 - 2028.06 (Expected)

- **Research Interests**: Transportation Decarbonization, Vehicle-to-Grid (V2G), Battery Recycling

**Tongji University**, School of Automotive Studies, *B.Eng. in Vehicle Engineering*    2018.09 - 2023.06

- **Honors Awards**: National Scholarship (×2), Shanghai Outstanding Graduate
- **Language Proficiency**: English (CET-6: 641), German (Band 6: Excellent)

## RESEARCH PROJECTS

**National Key R&D Program of China: Technology for CO2-EOR and Long-term Sequestration**
Core Member

- Contributed to the techno-economic assessment of CCUS technologies, focusing on the carbon sequestration benefits and cost curves of $CO$-EOR to support the formulation of China's national CCUS technology roadmap.

**The World Bank Group: Green China - Towards a Cleaner, More Sustainable Economy**
Researcher

- Analyzed the low-carbon transition pathway for the power sector using the **China TIMES 2.0** integrated assessment model, providing techno-economic analysis for the World Bank's policy report on China's green growth.

**Carbon Neutrality Technology Roadmap for Commercial Vehicles (National Think Tank Project)**
Core Member

- Led the analysis for the clean energy supply section, assessing the prospects and challenges of hydrogen, biofuels, and electrification. Findings were incorporated into a key research report for a national high-level think tank.

**European Commission (DG CLIMA): COMMITTED Project**                                        Core Member

- Engaged in multi-country joint modeling using Integrated Assessment Models (IAMs) to evaluate the impacts of various climate policy portfolios, supporting integrated research on global climate transition pathways.

## PUBLICATIONS

- Chen, W., Zhang, S., Zhang, Q., Ren, J., **Ding, Q.** (2025). Assessment of Coordinated Carbon Neutral Transition Pathways for China's Provincial Power Systems. *Energy and Climate Change*, 1(1), 1-15.

  - *Utilized the China TIMES-30PE model to reveal deep decarbonization pathways for provincial power systems, highlighting the critical role of inter-regional power transmission and energy storage in a coordinated transition.*

- Ding, Q., et al. The Role of Shared Autonomous Electric Vehicles in Decarbonizing China's Passenger Transport Sector. (Submitted to *Applied Energy*, with editor).

  - *This work is the first to systematically quantify the cross-sectoral impacts of Shared Autonomous Electric Vehicles (SAEVs), demonstrating their potential to substantially reduce energy consumption and critical mineral demand.*

## SKILLS

- **Programming Languages**: Python (incl. Numpy, Pandas), MATLAB, GAMS
- **Modeling Tools**: TIMES (Integrated Energy Assessment Model), GIS
- **Data Analysis**: Statistical Analysis, Econometrics, Machine Learning, Scenario Analysis