



German-Japanese Energy Transition Council

**Retrospect 2016 – 2026**

## GJETC at a Glance



A role model for international cooperation on climate and environmental issues since 2016



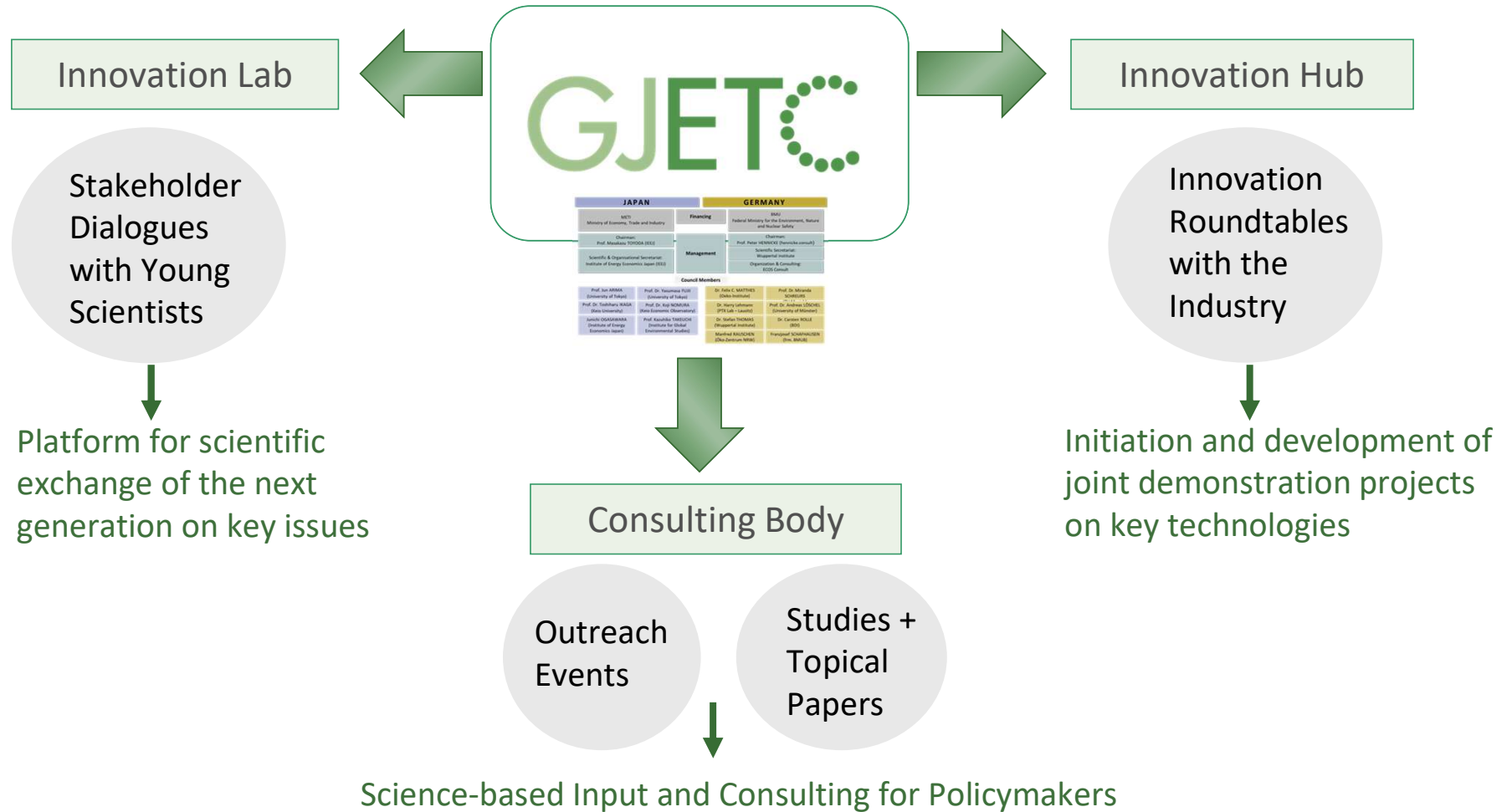
Council Meeting in Tokyo, 2016



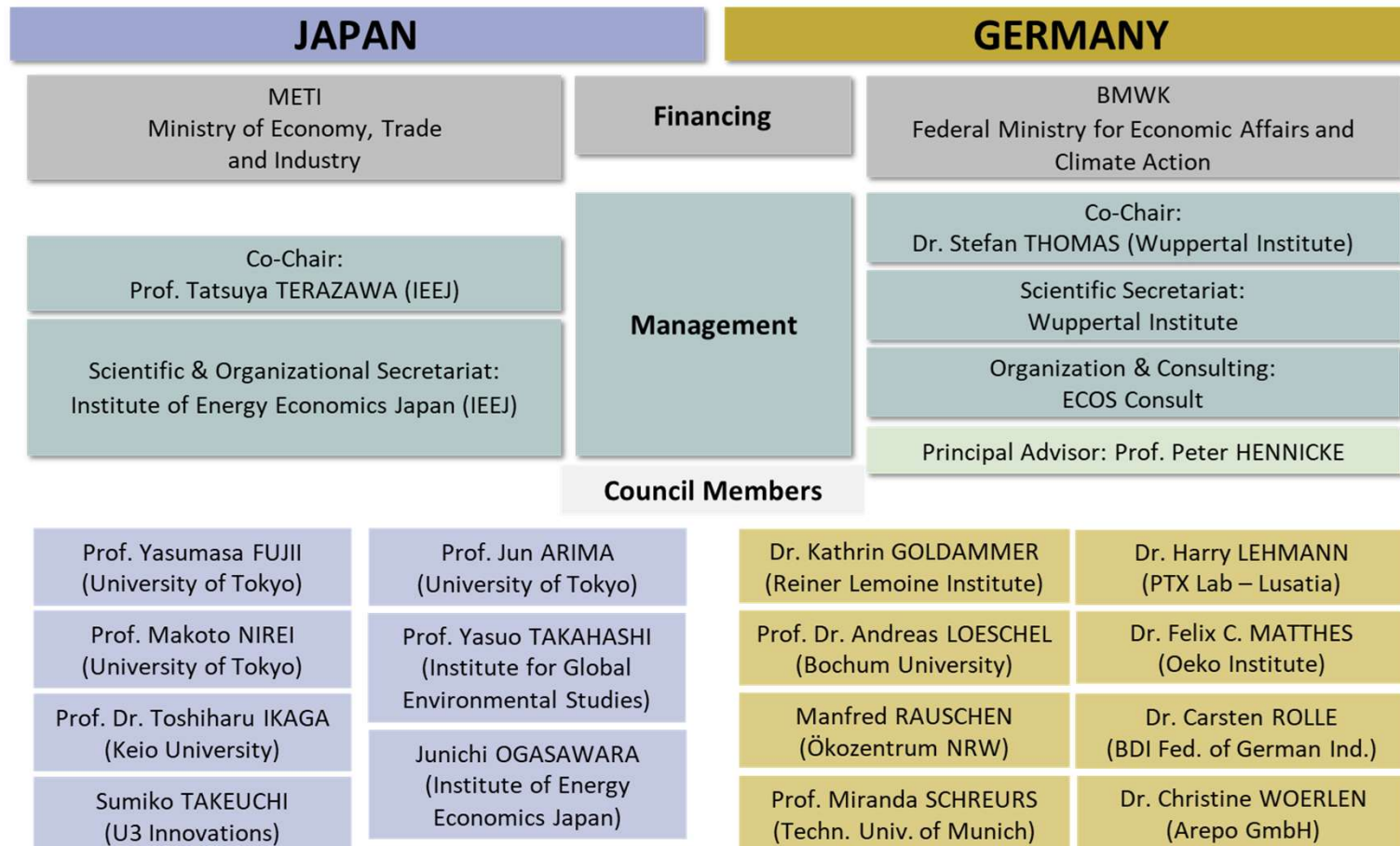
Council Meeting in Tokyo, 2023

German-Japanese Energy Transition Council

# Concept and Functions



# Council Structure (as of 2025)



## Principles of the GJETC



- Bi-national council consisting of scientific experts
- Strategic issues and in-depth research through bilateral study groups, supported by Stakeholder Dialogues
- Enabling even controversial debates on a continuously built basis of trust
- Effective Outcomes: Council Reports, Key Recommendations and Outreach Events
- Administrative and technical support through organizational and scientific secretariats
- Co-financed by German and Japan side



German-Japanese Energy Transition Council



1<sup>st</sup> Phase

**2016 - 2018**

## 1<sup>st</sup> Phase (2016 – 2018): Studies & Publications

- Inauguration of the unique format of bilateral research cooperation in Sep 2016
- Studies:
  - Comparative analysis of long-term scenarios
  - Socio-cultural aspects of the energy transition
  - New Allocation of Roles and Business Segments of Established and new Participants in the Energy Sector Currently and Within a Future Electricity Market Design
  - Energy end-use efficiency: potentials and policies and the development of energy service markets - Germany and Japan
- Further Publications:
  - ‘GJETC report 2018’
  - Topical Paper: The G20 states – selected official energy and climate targets: Renewable Energy, Energy Efficiency, CO2/GHG emissions
  - Supporting and hindering framework conditions for decentralized actors – Overview on status and perspectives in Japan and Germany



# 1<sup>st</sup> Phase (2016 – 2018): Council Meetings



Oct  
2016

Tokyo

1<sup>st</sup> Council Meeting



Jan  
2017

Berlin

2<sup>nd</sup> Council Meeting



Sep  
2017

Tokyo

3<sup>rd</sup> Council Meeting



Feb  
2018

Berlin

4<sup>th</sup> Council Meeting



## 1<sup>st</sup> Phase (2016 – 2018): Events [1]

Sept  
2017

Institute of Energy  
Economics Japan,  
Tokyo

German-Japanese Dialogue: How far can  
the Energy Transition go?" Perspectives  
and First Results of the GJETC



Feb  
2018

Haus der  
Bundespresse-  
konferenz,  
Berlin

The Energy Transition in Japan &  
Germany: Consensus and  
Controversies.  
Insights of the GJETC



Mar  
2018

Paul-Löbe-Haus,  
Berlin

Public expert discussion of the Committee for  
the Environment, Nature Conservation and  
Nuclear Safety on the 7th anniversary of the  
Fukushima nuclear disaster.



## 1<sup>st</sup> Phase (2016 – 2018): Events [2]



Apr  
2018

Press and Visitor  
Center of the  
German  
Government,  
Berlin

Outreach: The Importance of  
International Cooperation under  
Disruptive Changes: Recommendations  
& Lessons Learnt from a Fruitful  
German-Japanese Dialogue on the  
Energy Transition



Sep  
2018

Institute of Energy  
Economics Japan,  
Tokyo

Outreach: The Importance of  
International Cooperation under  
Disruptive Changes: Recommendations  
& Lessons Learnt from a Fruitful  
German-Japanese Dialogue on the  
Energy Transition





2<sup>nd</sup> Phase

**2018 - 2020**

## 2<sup>nd</sup> Phase (2018 – 2020): Studies & Publications

- Studies:
  - Hydrogen Society (Part 1): The role of clean hydrogen in the future energy systems of Japan and Germany
  - Hydrogen Society (Part 2): Important Aspects of Production, International Cooperation and Certification
  - Digitalization and the Energy Transition (Part 1): Virtual Power Plants and Blockchain
  - Digitalization and the Energy Transition (Part 2): P2P Electricity Trading and PPAs
- Further Publications:
  - ‘GJETC report 2020’
  - Output Paper: Energy efficiency in buildings
  - Output Paper: Transportation and sector coupling
  - Output Paper: Integration cost of VRE



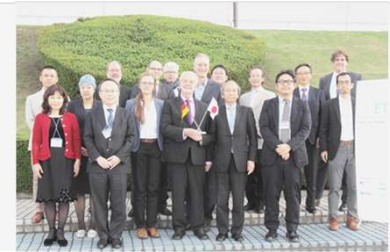
## 2<sup>nd</sup> Phase (2018 – 2020): Council Meetings [1]



Nov  
2018

Tokyo

5<sup>th</sup> Council Meeting



Mar  
2019

Berlin

6<sup>th</sup> Council Meeting



Sep  
2019

Tokyo

7<sup>th</sup> Council Meeting



## 2<sup>nd</sup> Phase (2018 – 2020): Council Meetings [2]



Jun  
2020

Online

8<sup>th</sup> Council Meeting



Sep  
2020

Online

9<sup>th</sup> Council Meeting



## 2<sup>nd</sup> Phase (2018 – 2020): Events

Jun  
2019 Tokyo

Political Roundtable: “Intensifying the cooperation on the energy transition” (with Secretary of State Andreas Feicht, BMWi)

Jun  
2019 Tokyo

JSPS (Japanese Society for the Promotion of Science) Alumni Club Association (JACA) Award for Co-Chair Peter Henicke



## 2<sup>nd</sup> Phase (2018 – 2020): Events



Sep  
2019

Tokyo

Outreach: “Management Options for Unbundled & Secure Electricity Markets with Growing Shares of Renewable Energy Needs, Experiences and Options for Japanese-German cooperation”



Jul  
2020

Online

Outreach: “Key results, lessons learnt and perspectives of the German-Japanese Energy Transition Council”





3<sup>rd</sup> Phase

**2020 - 2022**




## 3<sup>rd</sup> Phase (2020 – 2022): Studies & Publications

- Studies:
  - Energy and Climate Policy in the Post Covid-19 era – Comparative Analyses on Germany and Japan
  - Digitalization and the Energy Transition: Use of Digitalization to Optimize Grid Operation Utilizing AI and Big Data collected from DERs
  - CCUS and Hydrogen Contributing to Decarbonization of Energy Intensive Industries
  - The Role of Batteries Towards Carbon Neutrality: How can Distributed Electricity Storage Contribute to Balancing Supply and Demand in Power Markets as well as in Power Grids?
  - Key Strategies Towards Decarbonization of Energy Use and Supply in Japan and Germany: Insights from a Comparison Study on Long-Term Scenario Analyses up to 2050
  - Potential Roadmaps for Decarbonization of the Steel Sector
- Further Publications:
  - Analysis: Potential Technology and Business Fields of Mutual Interest for German and Japanese Companies



## 3<sup>rd</sup> Phase (2020 – 2022): Council Meetings



Mar 2021	Online	10 <sup>th</sup> Council Meeting	
Sep 2021	Berlin / Online	11 <sup>th</sup> Council Meeting	
Feb 2022	Berlin / Online	12 <sup>th</sup> Council Meeting	

## 3<sup>rd</sup> Phase (2020 – 2022): Events



Jul 2021 Online

Outreach: “Beyond Climate Emergency – Steps Towards Carbon Neutrality, German-Japanese Study Results on Key Questions”



Sep 2021 Berlin

Award of the Order of the Rising Sun by the Japanese Government for Co-Chair Peter Henricke



Nov 2021 Online

Outreach: “Heading for carbon neutrality: Key strategies for Germany and Japan”



## 3<sup>rd</sup> Phase (2020 – 2022): Events



Sep  
2021

Online

Stakeholder dialogue with Young Scientists: “Increasing the Ambition Level of Climate Mitigation – New Challenges and Opportunities for International Cooperation on the Energy Transition”



Nov  
2021

Online

Innovation Roundtable: “Thermoelectric Generators (TEG) for Waste Heat Usage in the Industry: Technologies, Applications, Future Challenges”



May  
2022

Online

G-J Workshop on G7 Summit



4<sup>th</sup> Phase

**2022 - 2024**

## 4<sup>th</sup> Phase (2022 – 2024): Studies & Publications

- Studies:
  - “Strategies, Concepts and Measures for Decarbonising the Building Stock by 2045/50”
  - “Roadmaps towards a climate neutral petrochemical production system – Comparative analysis for Germany and Japan”
  - “Electricity Market Design – Instruments to support the investment in flexibilities in Germany and Japan”
  - “The More Effective Governance of Energy Efficiency Policies”
- Topical Paper:
  - “Green Industrial Policy and Trade – The Green Industrial Plan of the EU in comparison to the Japanese GX (Green Transformation) Initiative”



## 4<sup>th</sup> Phase (2022 – 2024): Council Meetings



Nov  
2022 Berlin / Online 13<sup>th</sup> Council Meeting



Mar  
2023 Tokyo 14<sup>th</sup> Council Meeting



Nov  
2023 Online 15<sup>th</sup> Council Meeting



Feb  
2024 Berlin 16<sup>th</sup> Council Meeting



## 4<sup>th</sup> Phase (2022 – 2024): Events



Nov 2022	Online	Outreach: “Approaching Carbon Neutrality in Times of Crisis: German-Japanese Study Results on the Role of Decentralized Electricity Storage, Decarbonization of the Steel Industry and Long-Term Scenarios”	 A poster for a GJETC Outreach event. The text on the poster reads: "GJETC Outreach", "Approaching Carbon Neutrality in Times of Crisis: German-Japanese Study Results on the Role of Decentralized Electricity Storage, Decarbonization of the Steel Industry and Long-Term Scenarios (update)". Below the text is a photograph of a document. At the bottom, it says "Online Event on November 9th, 2022 08:30-10:00 CET / 15:30 - 18:00 JST".
Dec 2022	Online	Outreach: “Connecting the Outcome of COP 27 with German-Japanese Cooperation on the Energy Transition”	 A screenshot of a Zoom meeting with five participants in a grid view. The participants are shown in individual video windows. One window shows a man with glasses, another shows a woman with long blonde hair, and another shows a man with glasses. There are also two windows showing a man with a beard and a man with dark hair. A banner at the bottom of the meeting says "#Making Paris Possible".
March 2023	Tokyo/online	Stakeholder Dialogue with the industry on Decarbonization of the Building Stock	 A photograph of a stakeholder dialogue meeting. Several people are seated around a long table in a conference room, engaged in discussion. The room has large windows and modern furniture.

## 4<sup>th</sup> Phase (2022 – 2024): Events



<p>Sep 2023</p>	<p>Online</p>	<p>Zoom in! Webinar on the Nexus of Circular Economy, Resource Efficiency and Climate Protection</p>	
<p>Oct 2023</p>	<p>Online</p>	<p>Outreach: “Roadmaps and Concepts to Decarbonize the Building Stock and the (petro)chemical Industry – Insights into Results of German-Japanese Studies”</p>	
<p>Nov 2023</p>	<p>Online</p>	<p>Zoom in! Webinar on Geopolitical Developments, COP 28 and their relevance for Energy Policy in Japan and Germany</p>	
<p>Dec 2023</p>	<p>Online</p>	<p>Innovation Roundtable - Scan to BIM Technology and Prefabrication of Innovative Insulation in Retrofitting of Residential Buildings</p>	

## 4<sup>th</sup> Phase (2022 – 2024): Events

Feb  
2024

Hybrid

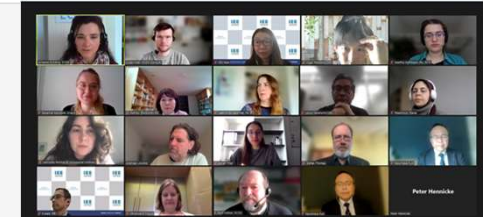
Outreach (“Meet the Co-Chairs“): “Tripling Renewables and Doubling Energy-Efficiency: Germany and Japan as Forerunners for the Implementation of Ambitious COP Goals”



Mar  
2024

Online

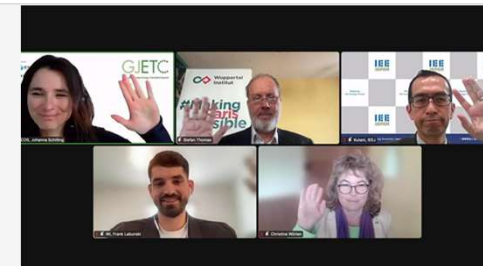
Young Scientists Dialogue



May  
2024

Online

Outreach: “Creating a Policy Landscape for the Energy Transition – Recommendations for the Electricity Market Design and Energy Efficiency Governance”





5th Phase

**2024 - 2025**

## 5<sup>th</sup> Phase (2024 – 2025): Input Papers



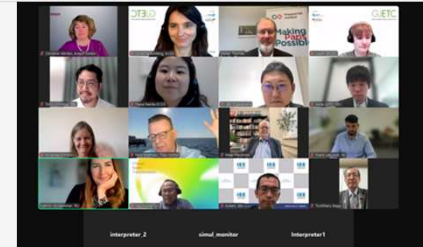
- Input Papers:
  - Carbon pricing – opportunities, challenges, and social acceptance
  - Renewables and Critical Raw Materials



## 5<sup>th</sup> Phase (2024 – 2025): Council Meetings



Dec  
2024      Online      17<sup>th</sup> Council Meeting



Feb  
2025      Tokyo      18<sup>th</sup> Council Meeting



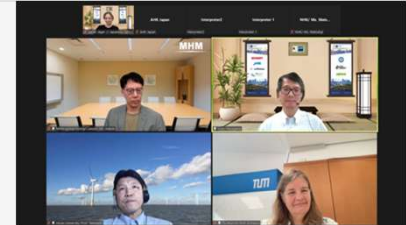
## 5<sup>th</sup> Phase (2024 – 2025): Events



Oct  
2024

Online

Online-Webinar: “Paths to Net-Zero: Climate Policy in Germany and Japan” (as part of the J-G Energy Partnership Program)



Feb  
2025

Tokyo

roundtable discussion with Japan Economic Forum about issues under the new Trump administration from a geopolitical perspective



Feb  
2025

Tokyo

residence talk on critical raw materials: geopolitical aspects and opportunities for G-J cooperation (in cooperation with the German Embassy)



## 5<sup>th</sup> Phase (2024 – 2025): Events

Feb  
2025 Tokyo/online

Stakeholder Dialogue: “Exchange on Policy Frameworks about Carbon Pricing Mechanisms and Their Effects on the Industry Sector in Japan and Germany”

### GJETC Stakeholder Dialogue

Exchange on Policy Frameworks about carbon pricing mechanisms and their effects on the industry sector in Japan and Germany



February 18th, 2025  
15:30 - 18:00 JST / 7:30 - 10:00 CET  
Tokyo / online

Feb  
2025 Tokyo

Outreach Event: Meet the Co-Chairs & Council Members: „The future of carbon pricing and critical raw materials: policy paths for Germany and Japan as partners in the energy transition”







6th Phase

**2026**

## 6<sup>th</sup> Phase (2026): Council Meeting and Events



Feb 2026	Berlin	19th Council Meeting	
Feb 2026	Berlin	Stakeholder Dialogue: „How to Improve Energy Efficiency Policy for the Industry in Japan and Germany”	
Feb 2026	Berlin	Outreach Event: Meet the Council Members: „Energy & Climate Policy in the Light of (geo)political Changes – Perspectives from Germany and Japan”	

## 6<sup>th</sup> Phase (2026): Papers



- Input Paper:
  - How to improve energy efficiency policy for industry (to be published in March 2026)



**Thank You for Your Attention!**

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