



German-Japanese Energy Transition Council

**Retrospect 2016 – 2024**

**&**

**Current Work Program 2024-2025**

# GJETC at a Glance



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

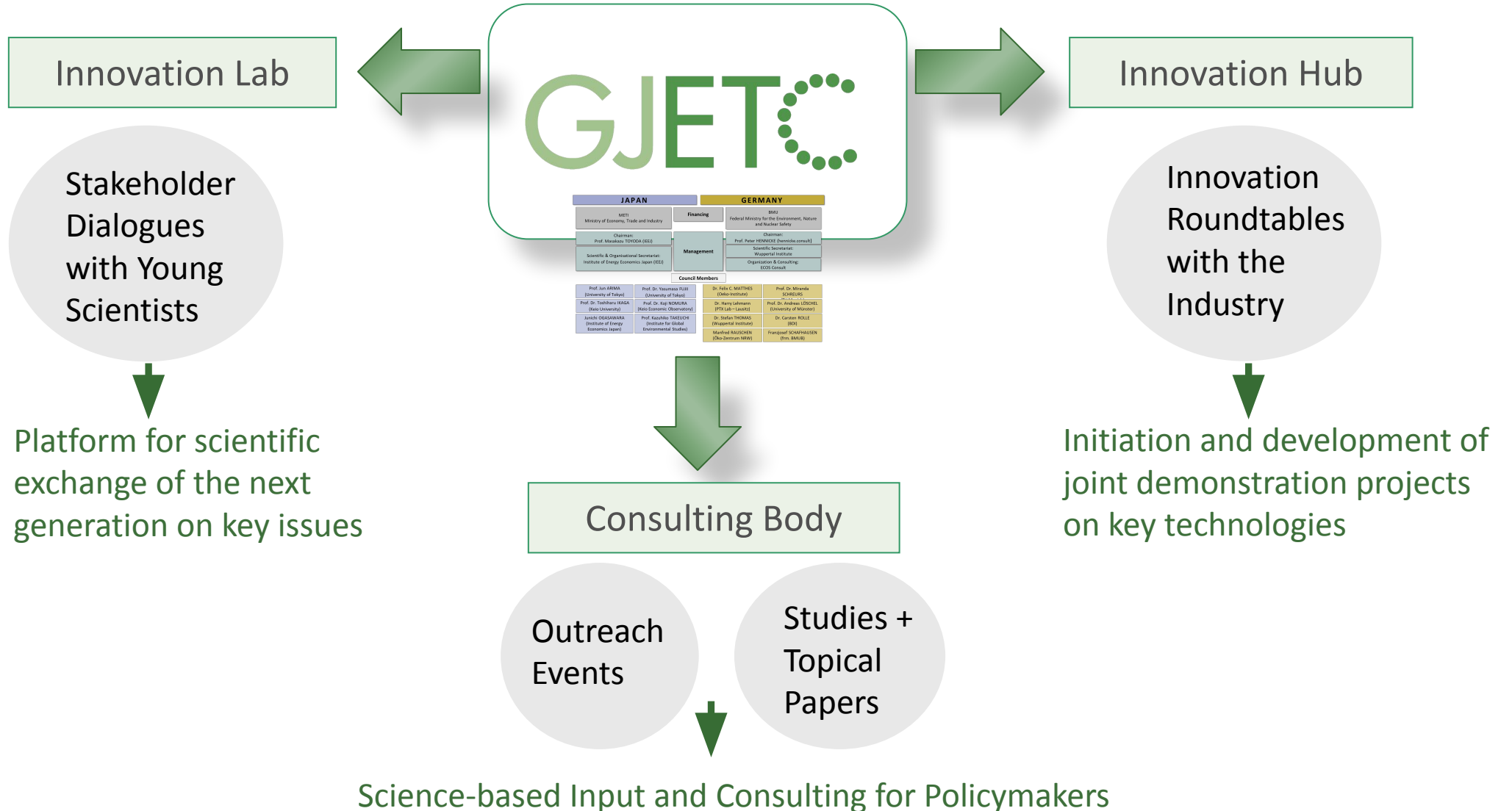


Council Meeting in Tokyo, 2016

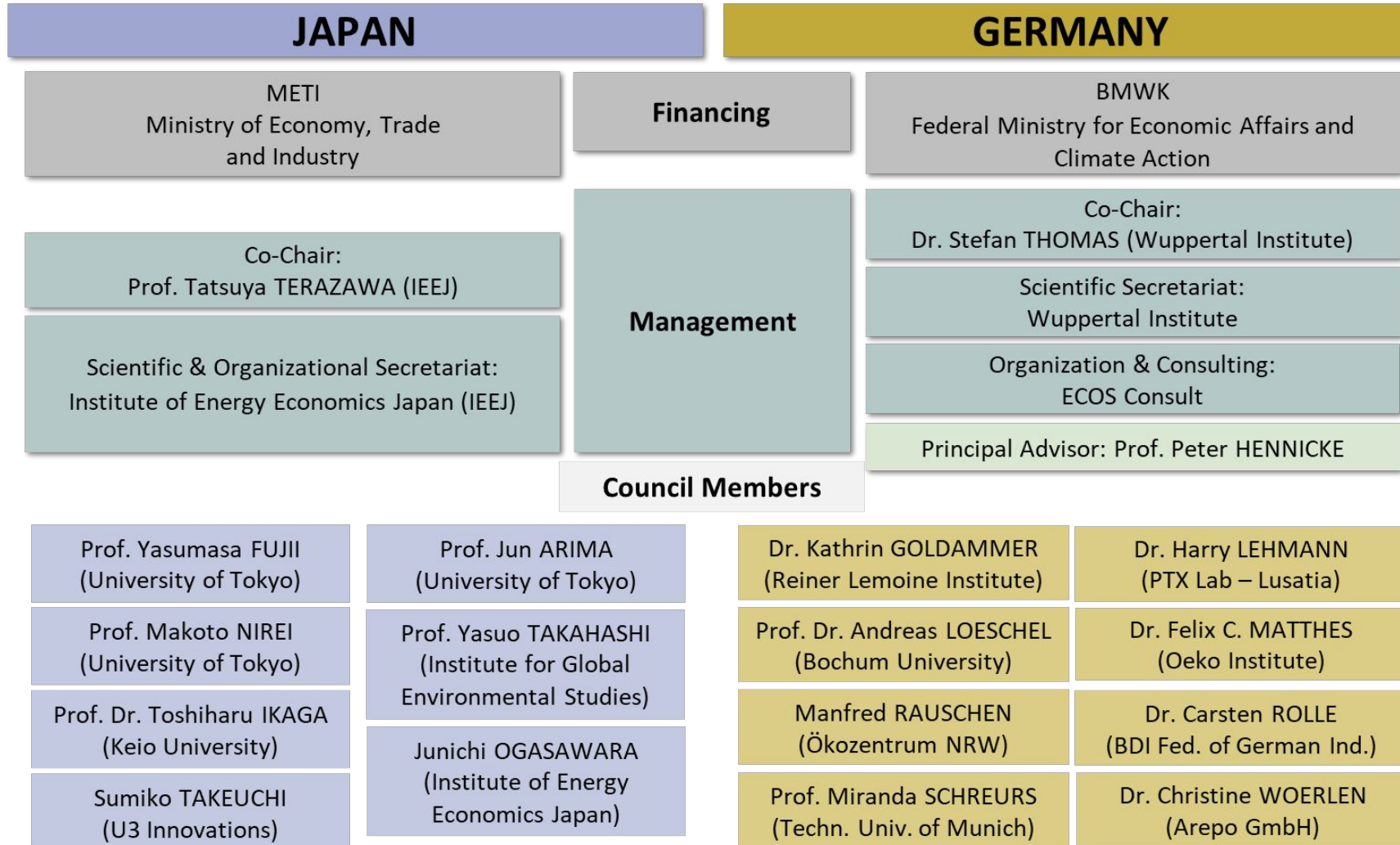


Council Meeting in Tokyo, 2023

# Concept and Functions



# Council Structure (as of May 2024)



# 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



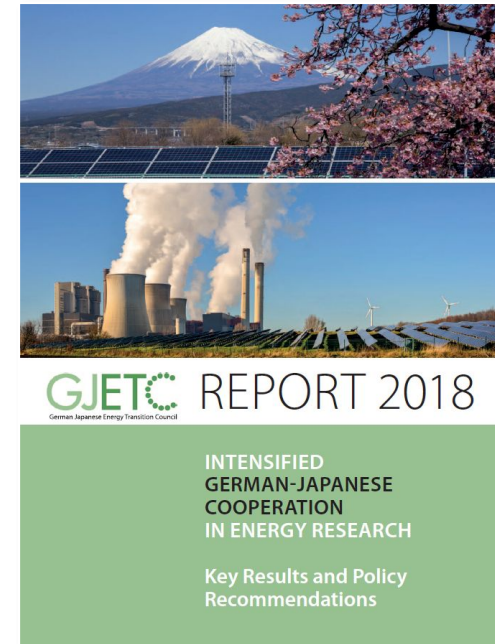
# GJETC

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]

<p>Sept 2017</p>	<p>Institute of Energy Economics Japan, Tokyo</p>	<p>German-Japanese Dialogue: How far can the Energy Transition go?" Perspectives and First Results of the GJETC</p>	
<p>Feb 2018</p>	<p>Haus der Bundespressekonferenz, Berlin</p>	<p>The Energy Transition in Japan &amp; Germany: Consensus and Controversies. Insights of the GJETC</p>	
<p>Mar 2018</p>	<p>Paul-Löbe-Haus, Berlin</p>	<p>Public expert discussion of the Committee for the Environment, Nature Conservation and Nuclear Safety on the 7th anniversary of the Fukushima nuclear disaster.</p>	

# 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	

# GJETC

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

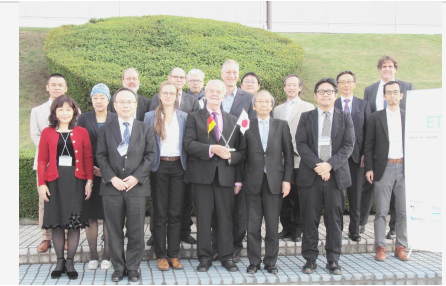


## 2<sup>nd</sup> Phase (2018 – 2020): Council Meetings [1]

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 Henricke



## 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”





# GJETC

3<sup>rd</sup> Phase


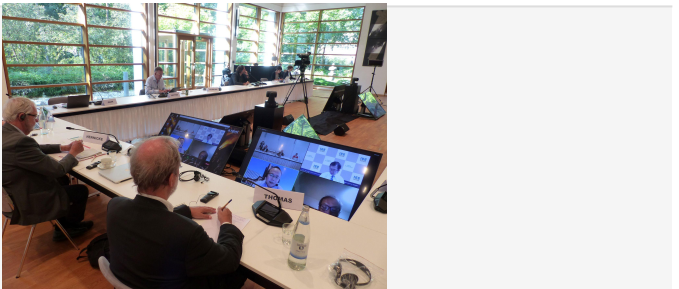

**2020 - 2022**

## 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	

# GJETC

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”	 <p>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)</p> <p>Online Event on November 9th, 2022 08:30-10:00 CET / 16:30 – 18:00 JST</p>
Dec 2022	Online	Outreach: “Connecting the Outcome of COP 27 with German-Japanese Cooperation on the Energy Transition”	
March 2023	Tokyo/online	Stakeholder Dialogue with the industry on Decarbonization of the Building Stock	

# 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”	



# 4th Phase & Current Work Program

**2024 - 2025**

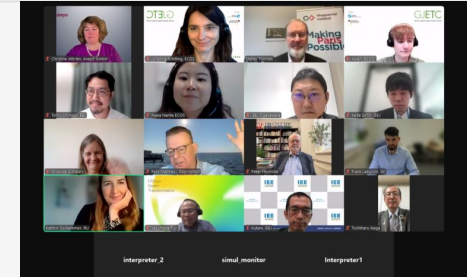
## 5<sup>th</sup> Phase (2024 – now): Input Papers

- Input Papers (working titles):
  - Carbon Pricing and social acceptance
  - Renewable energies and critical raw materials



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

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



Feb  
2025      Tokyo      18<sup>th</sup> Council Meeting (planned)

## 5<sup>th</sup> Phase (2024 – now): 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	planned
Feb 2025	Tokyo	residence talk on critical raw materials: geopolitical aspects and opportunities for G-J cooperation (in cooperation with the German Embassy)	planned

# 5<sup>th</sup> Phase (2024 – now): 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”







**Thank You for Your Attention!**

**[www.gjetc.org](http://www.gjetc.org)**