



German-Japanese Energy Transition Council

**Retrospect 2016 – 2025**

# GJETC at a Glance



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



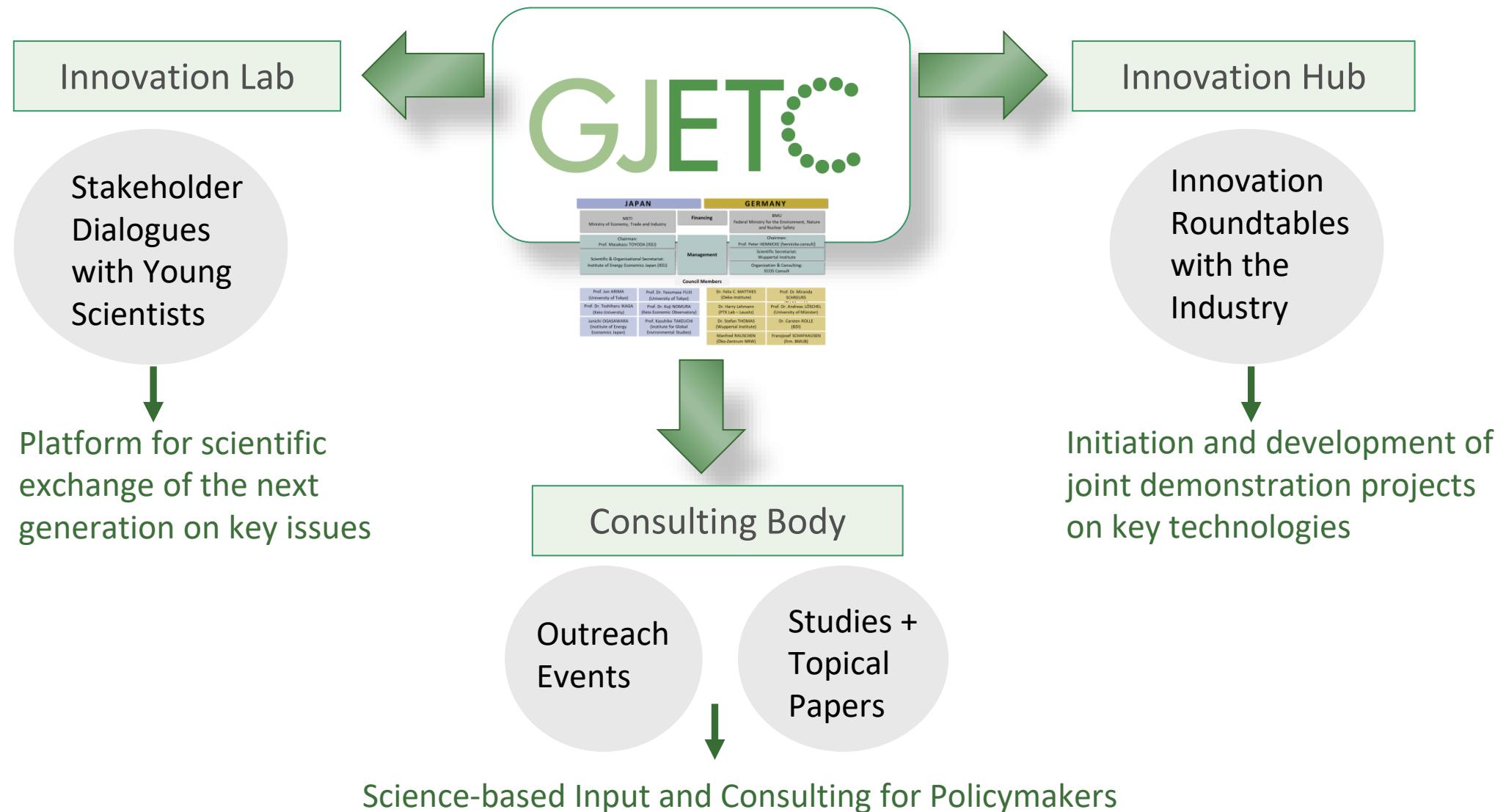
Council Meeting in Tokyo, 2016



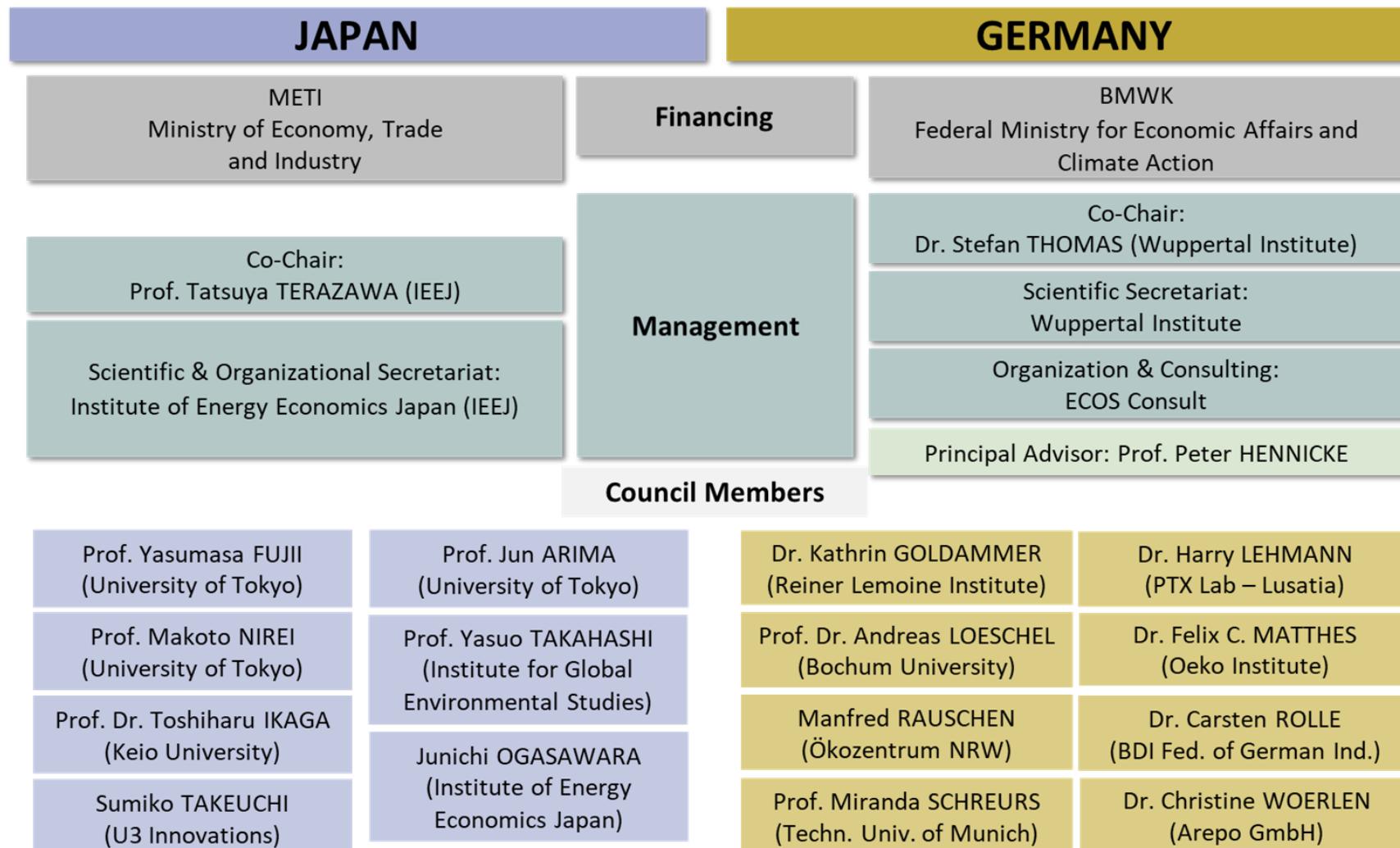
Council Meeting in Tokyo, 2023

## Concept and Functions

# GJETC



# 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





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	A group photograph of approximately 25 people, mostly men in suits, standing in two rows on a terrace overlooking a body of water. A table in the foreground has a sign that reads 'ETC'.
Jan 2017	Berlin	2 <sup>nd</sup> Council Meeting	A group photograph of approximately 25 people, mostly men in suits, standing in two rows in front of a modern building with large glass windows.
Sep 2017	Tokyo	3 <sup>rd</sup> Council Meeting	A photograph of a conference room where a meeting is taking place. Several people are seated around a long table, facing a front row where a presentation is likely being given. The room has a whiteboard and flags of Germany and Japan on the table.
Feb 2018	Berlin	4 <sup>th</sup> Council Meeting	A photograph of a conference room where a meeting is taking place. A large group of people is seated around a long table, facing a front row where a presentation is likely being given. A projector screen is visible in the background.

## 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]

<p>Apr 2018</p>	<p>Press and Visitor Center of the German Government, Berlin</p>	<p>Outreach: The Importance of International Cooperation under Disruptive Changes: Recommendations &amp; Lessons Learnt from a Fruitful German-Japanese Dialogue on the Energy Transition</p>
<p>Sep 2018</p>	<p>Institute of Energy Economics Japan, Tokyo</p>	<p>Outreach: The Importance of International Cooperation under Disruptive Changes: Recommendations &amp; Lessons Learnt from a Fruitful German-Japanese Dialogue on the Energy Transition</p>





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	 A screenshot of a GoToMeeting video conference. The interface shows a grid of 24 participant windows. The top row has 4 participants: Nils Temmen, Junichi Ogasawara, Judith Schröder, and Naomi Gericke. The second row has 4 participants: Shikibu Oishi, Ryoko Kawaguchi, Lisa Kolde, and Peter Hennicke. The third row has 4 participants: Kazuhiko Takeuchi, TOYODA, Shibata IEJ, and Manfred Rauschen. The bottom row has 4 participants: Stefan Thomas, Andreas Loeschel, fujii, and Wilhelm Meemken. Other participants are visible in the grid, including Hisashihoshi, Kentaro Tamura, NPC-45, Hitoshi KIRIBE, and Jun Arima.
Sep 2020	Online	9 <sup>th</sup> Council Meeting	 A screenshot of a video conference with four participants in a 2x2 grid. The top-left participant is Prof. Dr. Peter Hennicke, and the top-right participant is Johanna Schilling. The bottom-left participant is Prof. Masakazu Toyoda, and the bottom-right participant is Dr. Stefan Thomas. The background of the top row shows the Wuppertal Institut logo, and the background of the bottom row shows the ECOS logo.

## 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 Hennicke



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

Sep 2019	Tokyo	<p>Outreach: “Management Options for Unbundled &amp; Secure Electricity Markets with Growing Shares of Renewable Energy Needs, Experiences and Options for Japanese-German cooperation”</p>
Jul 2020	Online	<p>Outreach: “Key results, lessons learnt and perspectives of the German-Japanese Energy Transition Council”</p>





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 Hennicke	
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	<p>Stakeholder dialogue with Young Scientists: “Increasing the Ambition Level of Climate Mitigation – New Challenges and Opportunities for International Cooperation on the Energy Transition”</p>  A grid of 25 small video call windows, each showing a different person's face. The names of the participants are listed below their respective windows. The grid is arranged in 5 rows and 5 columns.
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Nov 2021	Online	<p>Innovation Roundtable: “Thermoelectric Generators (TEG) for Waste Heat Usage in the Industry: Technologies, Applications, Future Challenges”</p>  A grid of 12 small video call windows, each showing a different person's face. The names of the participants are listed below their respective windows. The grid is arranged in 3 rows and 4 columns.
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May 2022	Online	<p>G-J Workshop on G7 Summit</p>
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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”



**GJETC**  
German Japanese Energy Transition Council

Whether the power plant is built will depend on energy efficiency policies

The more effective governance of energy efficiency policies



Roadmaps towards a climate neutral petrochemical production system  
Comparative analysis for Germany and Japan

© Anna Röttger

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

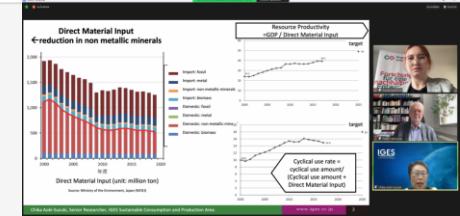


Nov 2022	Berlin / Online	13 <sup>th</sup> Council Meeting	
Mar 2023	Tokyo	14 <sup>th</sup> Council Meeting	
Nov 2023	Online	15 <sup>th</sup> Council Meeting	
Feb 2024	Berlin	16 <sup>th</sup> Council Meeting	

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

Nov 2022	Online	<p>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> <p><b>GJETC Outreach</b> 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 / 18:30 – 18:00 JST</p>
Dec 2022	Online	<p>Outreach: “Connecting the Outcome of COP 27 with German-Japanese Cooperation on the Energy Transition”</p> 
March 2023	Tokyo/online	<p>Stakeholder Dialogue with the industry on Decarbonization of the Building Stock</p> 

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

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

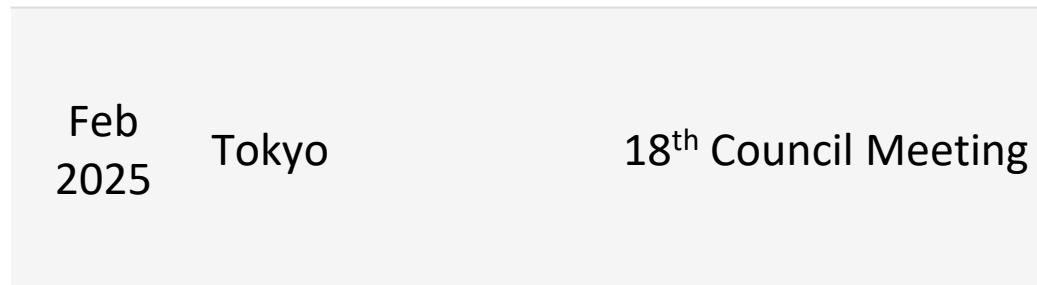
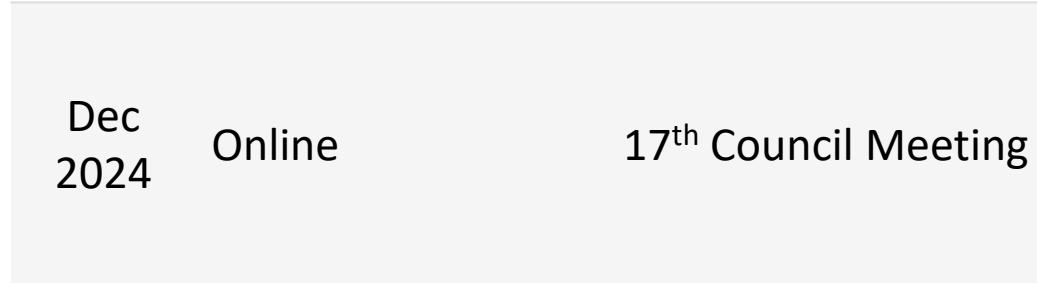
- Input Papers:
  - Carbon pricing – opportunities, challenges, and social acceptance
  - Renewables and Critical Raw Materials



Dion Beetson auf Unsplash

**Renewables and Critical Minerals**

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



## 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”**



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

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