



German-Japanese Energy Transition Council

Retrospect 2016 - 2023

GJETC at a Glance



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



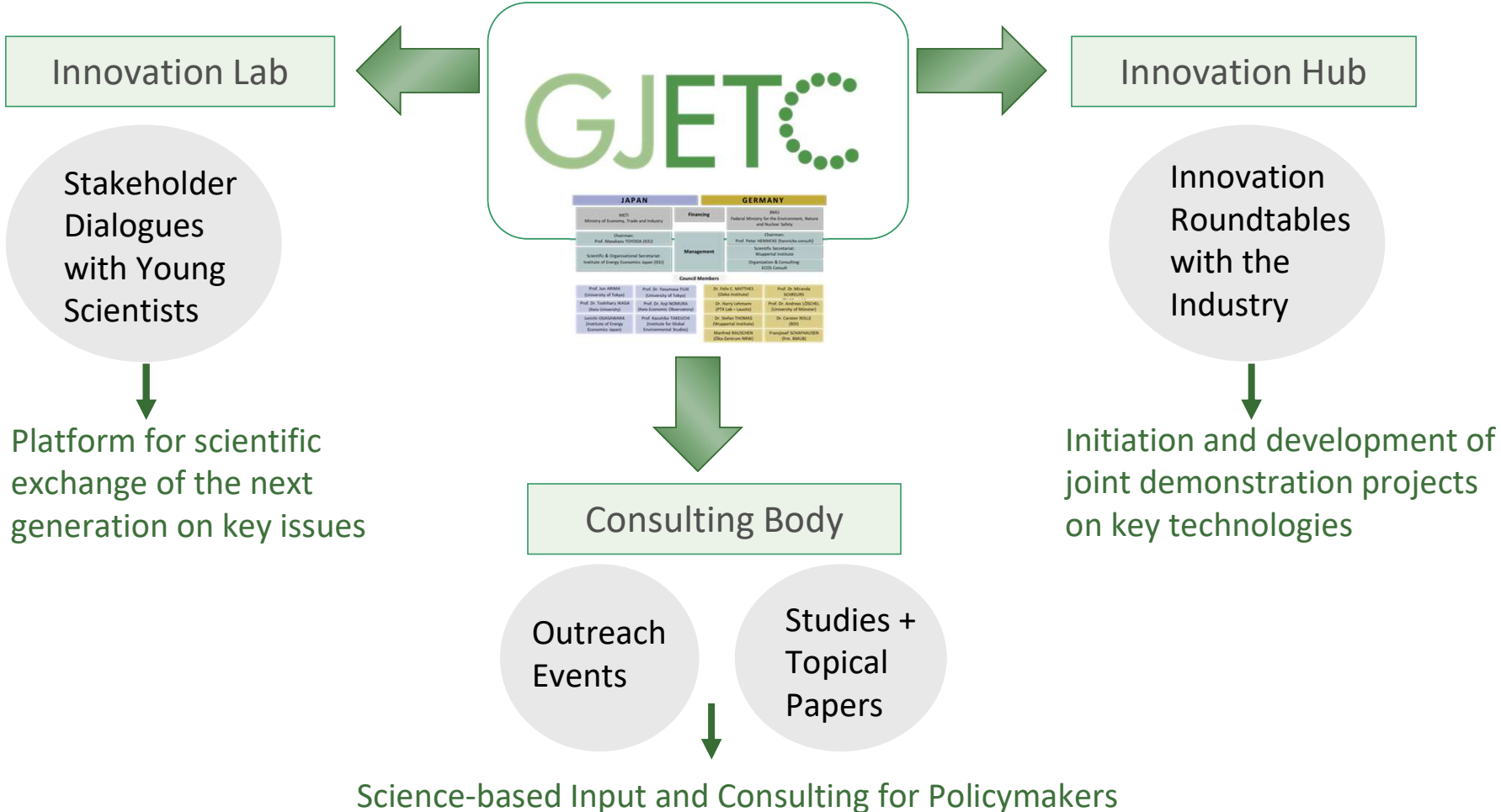
Council Meeting in Tokyo, 2016



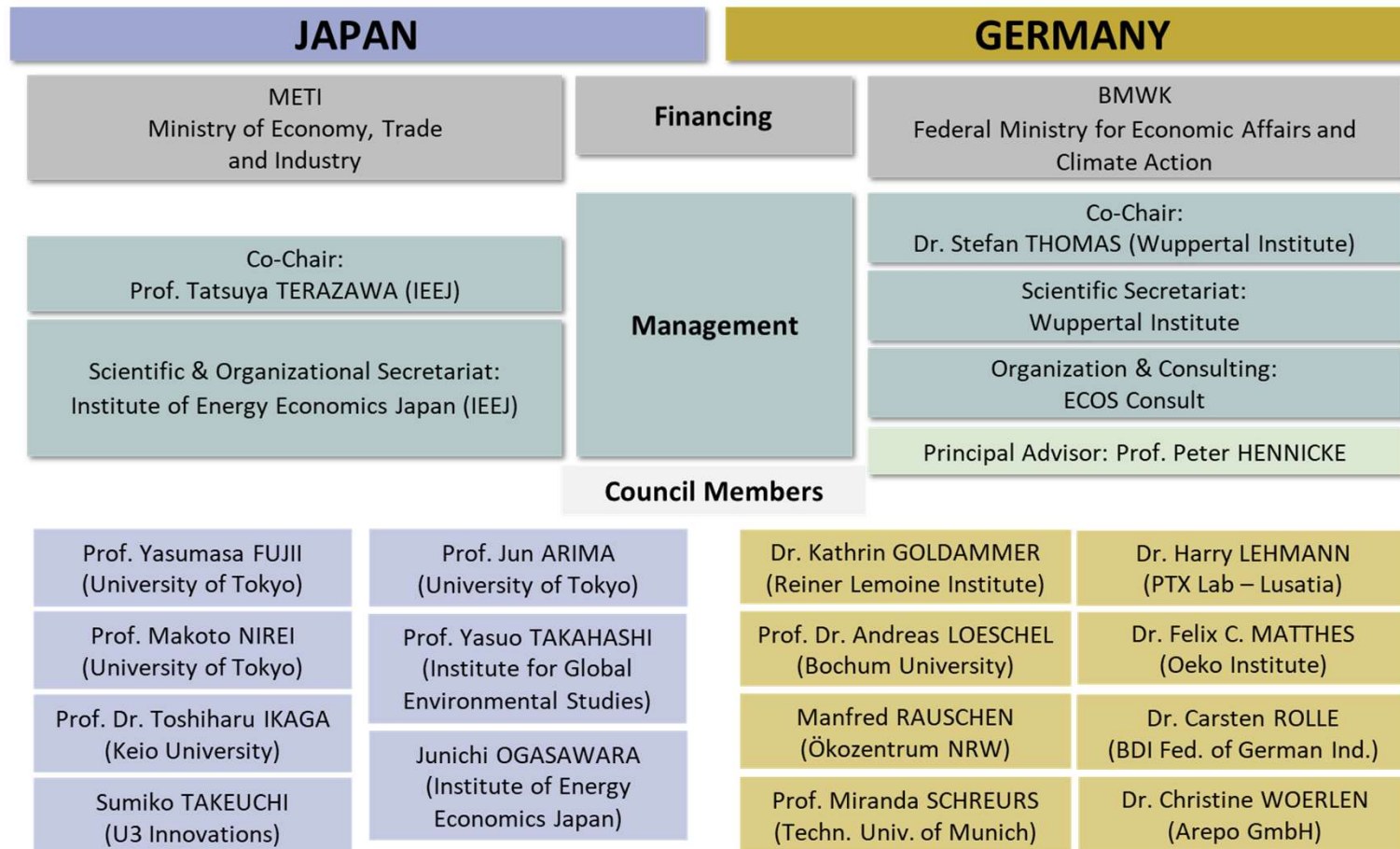
Council Meeting in Tokyo, 2023

Concept and Functions

GJETC



Council Structure (as of November 2023)



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





1st Phase

2016 - 2018

1st 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



1st Phase (2016 – 2018): Council Meetings



Oct
2016

Tokyo

1st Council Meeting



Jan
2017

Berlin

2nd Council Meeting



Sep
2017

Tokyo

3rd Council Meeting



Feb
2018

Berlin

4th Council Meeting



1st 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.



1st 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	



2nd Phase

2018 - 2020

German-Japanese Energy Transition Council

2nd 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



2nd Phase (2018 – 2020): Council Meetings [1]



Nov
2018

Tokyo

5th Council Meeting



Mar
2019

Berlin

6th Council Meeting



Sep
2019

Tokyo

7th Council Meeting



2nd Phase (2018 – 2020): Council Meetings [2]



Jun
2020

Online

8th Council Meeting



Sep
2020

Online

9th Council Meeting



2nd 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



2nd 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”





3rd Phase

2020 - 2022

3rd 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



3rd Phase (2020 – 2022): Council Meetings



Mar
2021

Online

10th Council Meeting



Sep
2021

Berlin / Online

11th Council Meeting



Feb
2022

Berlin / Online

12th Council Meeting



3rd Phase (2020 – 2022): Events



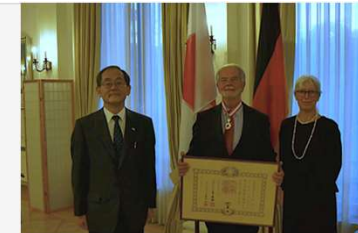
Jul 2021 Online

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



Sep 2021 Berlin

Award of the Japanese Government for Co-Chair Peter Hennicke





Nov 2021 Online

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



3rd 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	



4th Phase

2022 - Now

4th Phase (2022 – now): Studies & Publications

- Studies:
 - “Strategies, Concepts and Measures for Decarbonising the Building Stock by 2045/50”
 - “Pathways to CHG Neutrality for the Petrochemical / Chemical Sector”
- Publications:
 - “Potentials for Waste Heat Usage in Japan and Germany”

4th Phase: (2022 – now): Upcoming Studies & Publications

- Studies:
 - “Electricity Market Design”
 - “The more effective governance of energy efficiency policies”
- Publications:
 - “Green Industrial Policy and Trade – The Green Industrial Plan of the EU in comparison to the Japanese GX (Green Transformation) Initiative”

4th Phase (2022 – Now): Council Meetings



Nov
2022 Berlin / Online 13th Council Meeting



Mar
2023 Tokyo 14th Council Meeting



Nov
2023 Online 15th Council Meeting



Feb
2024 Berlin Upcoming: 16th Council Meeting

4th Phase (2022 – Now): Events



Nov 2022	Online	“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”	
Dec 2022	Online	“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	

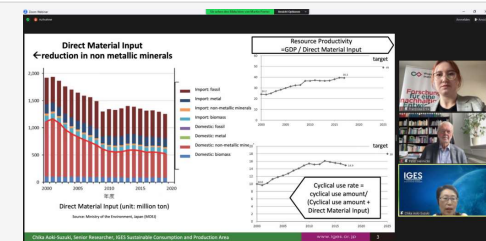
4th Phase (2022 – Now): Events



Sep
2023

Online

Zoom in! Webinar on the Nexus of Circular Economy, Resource Efficiency and Climate Protection



Nov
2023

Online

Zoom in! Webinar on Geopolitical Developments, COP 28 and their relevance for Energy Policy in Japan and Germany



Dec
2023

Online

Innovation Roundtable - Scan to BIM Technology and Prefabrication of Innovative Insulation in Retrofitting of Residential Buildings



4th Phase (2022 – Now): Upcoming Events

Mar 2024	Online	Upcoming: Young Scientists Dialogue
Mar 2024	Online	Upcoming: Outreach



Thank You for Your Attention!

www.gjetc.org