



REACH2 Network 2nd Planning Workshop

NSF Network of Networks: Research and Education Accelerated by Connections in Clean Hydrogen (REACH2)

Joint meeting with German-Canadian Materials Acceleration Centre (GC-MAC)

April 7–9, 2025

In-person location: Fraunhofer Institute for Solar Energy Systems ISE
 Heidenhofstr. 2, 79110 Freiburg
 Venue: Solar Info Center, Emmy-Noether-Str.2, 79110 Freiburg, Room ETAGE F-2.53
 Contact: ulf.groos@ise.fraunhofer.de | Jasna Jankovic [email] | Terry Barber-Tournaud
 [email]
 Freiburg, Germany

On-line meeting link: TBD



MONDAY | APRIL 7, 2025

REACH2 NETWORK WORKING MEETING

09:00 – 09:30	am	Registration and Breakfast	
09:30 – 10:15	am	Opening Remarks and Intro to Fraunhofer ISE	Jasna Jankovic (UConn), Ulf Groos, Elias Frei, Tom Smolinka, Christopher Hebling, institute directors (ISE)
10:15 – 11:00	am	Report from Workshop #1	Jasna Jankovic, Terry Barber Barber-Tournaud (UConn)
11:00 – 11:30	am	Coffee Break	All
11:30 – 12:30	am/pm	Selection of the Network Management Team and Advisory Board Team	All
12:30 – 13:30	pm	Lunch Break	All
13:30 – 14:15	pm	Interactive Session 1	All
14:15 – 15:00	pm	Interactive Session 2	All
15:00 – 15:30	pm	Coffee Break	All
15:30 – 16:15	pm	Interactive Session 3	All
16:15 – 17:00	pm	Interactive Sessions Report-Out/Conclusions	All
17:00 – 18:00	pm	Fraunhofer ISE Lab Tour: CCM Production	Ulf Groos/Linda Ney
19:00 – on	pm	Dinner and Social (TBD)	All

DAY 1 TOPICS TO DISCUSS DURING INTERACTIVE SESSIONS

1	Network Memberships Models and Code of Conduct
2	Logistics/Models of Collaboration/ Research Agreements/NDAs, MOUs/Access to Facilities
3	Funding opportunities



TUESDAY | APRIL 8, 2025

WORKSHOP ON MATERIALS AND EXPERT DATABASES, AND TECHNOLOGY DEVELOPMENT MATRIX (TDM)

09:00 – 09:30	am	Breakfast	
09:30 – 10:00	am	Intro to Forschungszentrum Jülich	<i>Michael Eikerling and Kourosh Malek (FZJ)</i>
10:00 – 11:00	am	Intro to Materials Database	<i>Kourosh Malek</i>
11:00 – 11:30	am	Coffee Break	<i>All</i>
11:30 – 12:30	am/pm	Intro to Expert Database	<i>Kourosh Malek</i>
12:30 – 14:00	pm	Lunch	<i>All</i>
14:00 – 15:30	pm	Intro to TDM	<i>Kourosh Malek</i>
15:30 – 16:00	pm	Coffee Break	<i>All</i>
16:00 – 17:00	pm	Discussions/Examples	<i>All</i>
17:00 – 18:00	pm	Fraunhofer ISE Lab Tour: CCM Characterization	<i>Ulf Groos</i>
19:00 – on	pm	Dinner and Social	<i>All</i>

DAY 2 TOPICS TO DISCUSS

1	Identify the available (meta) data in the network members labs (type, size, parameters, ...)
2	Identify current approaches for storage, sharing, processing (including ML and AI) and long-term sustainability of data
3	Identify gaps and challenges in data storage, sharing and processing
4	Plan steps forward – adaptation of the current UTILE platform or build a new one
5	Plan for data standardization, management, sustainability of data sharing
6	Asses the risks (data loss and backup, IP issues, internet issues, platform management, ...) and establish approaches to alleviate them



WEDNESDAY | APRIL 9, 2025

NON-PFAS MATERIALS DEEP-DIVE WORKSHOP

REACH2 + GC-MAC NETWORKS

08:00 – 08:30	am	Breakfast	
08:30 – 9:00	am	GC-MAC Network Introduction	<i>Jasna Jankovic (UConn), Michael Eikerling (FZJ)</i>
		<ul style="list-style-type: none"> Introduction to GC-MAC, intersection with REACH2 & goals of session 	
09:00 – 10:00	am	GIRAFFE Project: Hydrocarbon Fuel Cell CCMs / Part 1	<i>Ionysis, Fraunhofer ISE</i>
10:00 – 10:30	am	Coffee Break	
10:30 – 12:00	am	GIRAFFE Project: Hydrocarbon Fuel Cell CCMs / Part 2	<i>Hahn-Schickard, N.N.</i>
12:00 – 13:00	am	Lunch	
13:00 – 14:00	pm	GC-MAC Network: Presentations on PFSA-free Materials	<i>TBD</i>
		<ul style="list-style-type: none"> 2-3 In-person presentations from industry (already in attendance) – focused on membranes and identifying/presenting knowledge gaps in field 	
14:00 – 14:30	pm	Coffee Break	
14:30 – 15:30	pm	GC-MAC Network: Technology Development Matrix (TDM)	<i>Kouros Malek (FZJ)</i>
		<ul style="list-style-type: none"> Presentation on TDM for PFSA-free materials Integration of “What We Heard” today into the TDM Open discussion & next steps 	
15:30 – 16:00	pm	Conclusions and Workshop Wrap-up	<i>Jasna/Terry/Ioulia/Ulf</i>
16:00 – 17:30	pm	Visit Ionysis	<i>Matthias Breitwieser</i>
19:00 – on	pm	Dinner and Social (optional)	