



## Electrolysis and Redox Flow Batteries: Combining the Two Worlds

| Timing                                                                         | Topics                                                                                    | Speakers                                                    |
|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>PART I – Introduction : Redox Flow and Water Electrolysis [10:00-11:00]</b> |                                                                                           |                                                             |
| 10:00                                                                          | Introduction from REDHY coordinator                                                       | Tobias Morawietz (DLR)                                      |
| 10:10                                                                          | Vanadium redox flow electrolysis                                                          | Matteo Zago (POLIMI)                                        |
| 10:25                                                                          | Redox flow & Electrolysis (CO <sub>2</sub> reduction, HER)                                | Kathryn Toghil (LU)                                         |
| 10:40                                                                          | Water electrolysis – Advances and main challenges                                         | Aldo Gago (DLR)                                             |
|                                                                                | Short break                                                                               |                                                             |
| <b>PART II – the REDHY Solution &amp; Innovations [11:00-12:00]</b>            |                                                                                           |                                                             |
| 11:00                                                                          | 3D printed electrodes for the REDHy system                                                | Mathieu Etienne (CNRS)                                      |
| 11:10                                                                          | From Prediction to Design: Optimizing CROCs for Redox Performance                         | German Sastre (UPV)                                         |
| 11:20                                                                          | CRM-free heterogeneous catalysts for hydrogen and oxygen evolution                        | Fausta Giacobello (CNR)                                     |
| 11:30                                                                          | Advancing bipolar membrane design for efficient electrochemical energy storage            | Julien Fage (CENMAT)                                        |
| 11:40                                                                          | Hybrid electrolysis system with decoupled gas evolution Combining the advanced components | Angelika Bullinger (DLR)                                    |
|                                                                                | Short break                                                                               |                                                             |
| <b>PART III - Panel discussion and Q&amp;A [12:00-13:00]</b>                   |                                                                                           |                                                             |
| 12:00                                                                          | Panel discussion: Strength and opportunities of the ‘combined worlds’<br>Q&A session      | Invited Speakers + Aldo Gago (DLR),<br>Antonino Arico (CNR) |
| 12:45                                                                          | Summary of key insights, follow-up actions, and closing remarks                           | Tobias Morawietz (DLR)                                      |