ARC Centre of Excellence for Green Electrochemical Transformation of Carbon Dioxide (GETCO2)

Research Data Management Plan

CENTRE DETAILS:

Funding Scheme: ARC Linkage Centres of Excellence

Grantor ID: CE230100017

Lead CI/Centre Director: Professor Xiwang Zhang xiwang.zhang@uq.edu.au

Chief Operating Officer: Dr Eloise Larsen e.larsen@uq.edu.au

Title: ARC Centre of Excellence for Green Electrochemical Transformation of Carbon Dioxide (GETCO2)

DESCRIPTION: This Centre aims to advance carbon dioxide electrochemistry innovations to enable the conversion of carbon dioxide into valuable products and transition Australia to a carbon-neutral economy. This Centre expects to generate new knowledge using experimental and computational approaches to develop systems-level understanding to furnish industry-ready carbon dioxide utilisation technologies. Expected outcomes include enhanced capacity through collaborations establishing the Centre as an international hub for research, training, technology translation and strategic advice for stakeholders and policymakers. This should accelerate Australia's progress towards net zero emissions targets and grow a sustainable economy and create future jobs.

OVERVIEW: The Centre's data management plan (DMP) will ensure that Centre researchers and partners adhere to responsible data practices. This will ensure that research outputs arising from Centre activities are high-quality, trusted, and FAIR (Findable, Accessible, Interoperable, Reusable), where possible. This Plan is intended to be reviewed and updated on a regular basis, as agreed by the Centre Management Committee.

DATA TYPES: The Centre will generate a series of data on fundamental and applied knowledge of carbon dioxide conversion in electrochemical systems. The data may be generated through laboratory or pilot-scale experiments, or through desktop modelling, simulation and analysis. Data subject to Intellectual Property ownership or patent will be dealt with through the Centre IP Management Policy, developed through the appropriate Centre governance.

DATA STORAGE: The data generated from the Centre will be managed in accordance with the Research Data Management Policy of UQ and participating organisations to ensure that data is appropriately managed according to recommendations made in the Australian Code for the Responsible Conduct of Research and other Applicable Policies. Most of these data will be in an electronic form and securely stored on UQ and participating organisation servers, including the UQ Research Data Manager (UQRDM) system, and associated use of Digital Research Notebooks (DRN).

Access to Centre data will be granted only to the relevant participants involved in the Centre. Project Leaders will lead the development of research data management plans specific to their research projects, including training of their teams in ethical and appropriate data management and respective organisation's data management systems, prior to commencing their research. Higher Degree Research (HDR) students will also be responsible for developing data management plans for their thesis projects, according to their enrolling institution's policies.

DATA STORAGE, ACCESS, AND REUSE AFTER TERM IS COMPLETED: All data from the Centre will be stored and archived electronically on UQRDM and/or participating organisation's equivalent secure storage servers. Data will be made available on request after taking into consideration copyright, intellectual property ownership, and any ethical requirements.

APPLICABLE POLICIES AND RESOURCES:

- ARC Open Access Policy
- Australian Code for the Responsible Conduct of Research (2018)
- UQ's Research Data Management Policy
- UQ's Information Management Policy
- OECD Principles and Guidelines for Access to Research Data from Public Funding
- Australian Research Data Commons https://ardc.edu.au/resource-hub/