

CELEST Member Short Profile



Marcel Weil



Dr.-Ing. Marcel Weil is a leading scientist in the field of sustainability assessment of energy technologies. Since 2020 he is head of the scientific unit “Research for Sustainable Energy Technologies” (RESET) at the Institute for Technology Assessment and Systems Analysis (ITAS). RESET is focusing on alternative energy production, transport, and usage, but with a strong focus on energy storage systems. Since 2011 he is heading a working group at the Helmholtz Institute Ulm (HIU) for electrochemical energy storage, in the topic field “Resources, Recycling, Environment and Sustainability”. The scientific work of his team has a strong focus on the environmental, social, and economic evaluation of emerging batteries (e.g. LCA, LCC, S-LCA, MCDA). His team is heading the sub-program techno-economics and sustainability of EERA (European Energy Research Alliance) for energy storage. He is a leading scientist (2019-2022) and chairman (2022-today) of the task force sustainability Batteries Europe/Batteries European Partnership Association (BEPA), and was an elected core member of BEPA (Batteries European Partnership Association), technical working group I – raw materials and recycling – to advice the EU (2020-2022). Additionally, he is co-author of the roadmap Batteries 2030+, responsible for the section recycling of batteries. Since 2021 he is a Principal Investigator and executive board member of the German cluster of excellence for “Post Lithium Storage” (POLiS) and responsible for the topic sustainability.

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Research areas

Life cycle based sustainability assessment of new and emerging energy technologies.

Lab equipment (at MZE and AOC, campus south of KIT)

LCA, LCC, S-LCA software and database. MCDA tools, Aspen Plus

Marcel Weil @ institute

https://www.itas.kit.edu/english/rg_reset.php

Link institute

<https://www.itas.kit.edu/english/index.php>

Link lab equipment

<https://hiu-batteries.de/forschung/forschungsgruppen/resource-s-recycling-environment-sustainability/>

Partners

