

Flagship: Materials for circular renewable energy technologies

My research line focusses on analysing and benchmarking the material demand and environmental impact of photovoltaic systems and other renewable energy technologies to support the global energy transition. Based on this analysis our research team develops new technologies designed for lower material demand, longer lifetime and improved circularity.

About Malte Ruben Vogt

Dr. Malte Ruben Vogt is Assistant Professor in materials for circular renewable energy technologies in the Electrical Sustainable Energy (ESE) Department at the Electrical Engineering, Mathematics & Computer Science (EEMCS) faculty of TU Delft.

He received his doctoral degree in physics from the Leibniz University of Hannover, in 2015.

Afterwards he focused on modelling the optical and thermal behaviour of PV modules under realistic conditions and creating the daidalos-cloud.de ray tracing platform at the Institute for Solar Energy Research Hamelin (ISFH). In 2020, he joined the Photovoltaic Materials and Devices group at the TU Delft to extend his research area to tandem PV modules and in 2022 he became assistant professor for Circular Renewable Energy Materials. In 2023 he was appointed to IEA PVPS Task 12 as an expert for PV Sustainability activities.

Contact details:

[+31 \(0\) 1527 870 32](tel:+3120152787032)

m.r.vogt@tudelft.nl

Room 36.LB03.440

[Linkedin](#)

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