

HITEC Day

Title: Energy Meteorology

Date: 17 November 2015

Time: 8:30 –15:40

afterwards *get together* with snacks and drinks

Location: [University of Cologne](#) ► [Hauptgebäude \(Buildg. 100, Main Building\), Alter Senatssaal](#)

8:30 – 8:35	Welcome and Introduction
8:35 – 9:15	Fundamentals of energy meteorology: influence of atmospheric parameters on solar energy production Prof. Stefanie Meilinger , Hochschule Bonn Rhein-Sieg, Sankt Augustin
9:15 – 9:55	Meteorological predictability, basics and challenges for energy meteorology PD Dr. Hendrik Elbern , Rhenish Institute for Environmental Research (RIU) Cologne and IEK-8
9:55 – 10:25	Coffee-break
10:25 – 11:05	Using high-resolution reanalysis to assess the potential of renewable energy and risk of compound events Prof. Susanne Crewell , University of Cologne, Institute for Geophysics and Meteorology
11:05 – 11:45	Aerosols and irradiation – impact on the solar resource and solar yield forecasting Dr. Marion Schroedter-Homscheidt , Deutsches Zentrum für Luft- und Raumfahrt (DLR), Oberpfaffenhofen
11:45 – 12:45	Lunch-break
12:45 – 13:15	Photovoltaic module performance monitoring Prof. Uwe Rau and Marzella Görig , Forschungszentrum Jülich, IEK-5,
13:15 – 13:55	Weather forecasts for renewable energy applications Dr. Kristina Lundgren , Deutscher Wetterdienst (DWD), Offenbach
13:55 – 14:20	Coffee-break
14:20 – 15:00	From the sun to the power outlet – Energy meteorology for a sustainable energy supply Dr. Kurt Rohrig , Fraunhofer Institute for Wind Energy and Energy System Technology (IWES), Kassel
15:00 – 15:40	Solar irradiance and PV power forecasts for the energy market Jan Kühnert , University of Oldenburg, Institute of Physics, Energy and Semiconductor Research
15:40 – 16:30	Get-Together with snacks