

HITEC Theme/Methods Day

Title: Modeling of Energy Storage Applications
Date: June 12, 2014
Time: 9:30 –17:00 hrs
afterwards *get together* with snacks and drinks
Location: E.ON Energy Research Center, RWTH Aachen University
 Mathieustraße 10, 52074 Aachen

9:30 – 10:00	Welcome and Introduction Reinhard Madlener, FCN / E.ON ERC, RWTH Aachen University
10:00 – 10:45	Introduction to the incorporation of risk, uncertainty and time preferences in the economic evaluation. Wilko Rohlf, WSA, RWTH Aachen University
10:45 – 11:00	Coffee break
11:00 – 11:30	Introduction to the net present value approach and real options modeling Wilko Rohlf, WSA, RWTH Aachen University
11:30 – 12:00	Advanced modeling approaches: Analytical and numerical solutions of partial differential equations in economics Wilko Rohlf, WSA, RWTH Aachen University
12:00 – 13:30	Lunch break (BBQ)
13:30 – 14:15	Electrochemical storages: Modeling of aging Madeleine Ecker, ISEA, RWTH Aachen University
14:15 – 15:00	Hydrogen storage for wind parks: A real options evaluation for an optimal investment in more flexibility Daniel Kroniger, IKDG, RWTH Aachen University, tbc
15:00 – 15:15	Coffee-break
15:15 – 16:00	Selected FCN research on energy storage technologies Reinhard Madlener, FCN / E.ON ERC, RWTH Aachen University
16:00 – 16:30	Discussion and Feedback
16:30 –	Get-Together with snacks

HITEC Days

HITEC Days are an inherent part of the graduate school Helmholtz Interdisciplinary Doctoral Training in Energy and Climate Research (HITEC). They devote a whole day to a method or a scientific topic with lectures and discussions. The methodological days serve to encourage scientific interdisciplinarity and will enable the PhD students to extend their range of methods with respect to their own scientific work. HITEC Days always end with a 'Get together', some snacks and drinks. HITEC Days are open for HITEC Ph.D. students and other interested young scientists.