Mr. Dylan Cutler

Ingeniero senior en el Laboratorio Nacional de Energías Renovables (NREL - de los EEUU)

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SEMINARIO

"THE ECONOMICS OF RESIDENTIAL SOLAR ENERGY: SOLAR PLUS PROJECT"

Departamento de Ingeniería Eléctrica
Escuela Técnica Superior de Ingeniería
Camino de los Descubrimientos s/n
Sevilla (España)

http://departamento.us.es/ielectrica/eventos/

SEMINARIO

"THE ECONOMICS OF RESIDENTIAL SOLAR ENERGY: SOLAR PLUS PROJECT"

MR. DYLAN CUTLER

ORGANIZA:

La Cátedra Endesa de la Universidad de Sevilla

15 de mayo de 2018

A las 16:00 horas

Aula 006
Escuela Técnica Superior de Ingeniería Universidad de Sevilla

Seminar: "The Economics of Residential Solar Energy: Solar Plus Project"

Speaker Bio:

Mr. Dylan Cutler is a senior engineer at the National Renewable Energy laboratory where he focuses on optimization of behind-the-meter distributed energy resources (DER), and advanced analysis on integrated controls data. He has been involved in the development of the REopt model during the last seven years at the National Renewable Energy Laboratory (NREL), leading much of the custom development and analysis. REopt focuses on the integration and optimization of distributed energy resources, specifically cost-optimal sizing and dispatch. Mr. Cutler also leads research on building and utility control systems integration and is one of the technical leads on the Intelligent Campus team, which focuses on NREL's own control system integration and energy informatics infrastructure. Recently, he has been leading the research on facilitating distributed energy markets with distributed ledger technology at the lab. He has an M.S. in building systems engineering, University of Colorado at Boulder, and a B.A. in mathematics, Middlebury College.

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Abstract:

A discussion of recent analysis around the economics of "Solar Plus" (solar combined with electrochemical energy storage as well as flexible loads) for residential homes in EEUU. This talk will cover the REopt model (used in the analysis) and the enhancements implemented to enable the evaluation of storage and flexible loads to in minimizing the life-cycle cost for residential homeowners under various rate tariffs including: time-of-use, demand, lack of/reduced feed-in tariff. Other examples of cost-optimal sizing and selection of behind-the-meter distributed energy resources will be included and discussed.