

FOSS - Research Centre for Sustainable Energy

Title: «Impact of Future Fossil Fuel Prices on Net-Metering Compensation of PV Distributed Generation in Vertically Integrated Systems»

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Room: ΧΩΔ02 - 119
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Abstract:

It is established that electricity retail charges influence the economics of net metered Photovoltaic (PV) generation. However, these charges may vary significantly over the life-cycle of a PV System introducing a further uncertainty for a ratepayer considering a long-term PV net-metered investment. To address this uncertainty, the presentation demonstrates a top-down approach - in vertically integrated environments - to model the net impact of electricity charge changes on life-cycle evaluations of PV net-metered systems. Particular emphasis is given in modeling the fossil fuel mix component of the energy charge that concurrently influences the residential bill savings and thus the return on investment of PV net-metered applications.

Biography:

Alexandros Nikolaidis was born in Ptolemaida, Greece in 1986. He received his Diploma in Electrical & Computer Engineering from the Democritus University of Thrace, Greece, in 2010 and his MSc degree from the University of Cyprus in 2012. He is currently pursuing his PhD degree within The Power Systems Modeling (PSM)* Laboratory which operates under the auspices of the department of Electrical and Computer Engineering of the University of Cyprus. His main research interests include Power System Analysis, Power System Operation, Renewable Energy Sources integration and Power System Planning.

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