



УНИВЕРЗИТЕТ
У НОВОМ САДУ



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ИНТЕГРИСАНИ
СИСТЕМ
МЕНАџМЕНТА
СЕРТИФИКОВАН ОД:



172. Sastanak IEEE u Novom Sadu / 172nd IEEE Meeting
in Novi Sad
Obaveštenje / Announcement

Prof. dr Alex Stankovic

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u **utorak, 18. 6. 2019.** u Svečanoj sali On **Tuesday, June 18, 2019**, in the
Fakulteta tehničkih nauka u Novom Ceremonial Hall of the Faculty of Technical
Sadu, sa početkom u **12:00 h**, održaće Sciences Novi Sad at **12:00 pm** will deliver

P R E D A V A N J E L E C T U R E

Some aspects of integration of renewable sources in the North American grid: experiences, problems and trends

Аспекти интеграције обновљивих извора енергије у северноамеричке електричне
мреже: искуства, проблеми и трендови

Abstract: This talk aims to outline some salient features of the US renewable energy integration. The electricity process in the US are roughly half of those in Europe, there is no long-term national renewable energy policy, and the legal landscape is complicated by the existence of federal, state and local laws. We propose to analyze energy systems as multi-layer structures involving flows of material, energy information and capital. Renewable energy has been tasked with improving sustainability, namely the input-output map at the material flow layer. Recently, its affordability has improved, especially in the case of wind and solar. We argue that resilience offers a natural way to couple and characterize all 4 layers in a multi-criterial fashion. We review relevant electrical technologies, such as power electronics and storage, and briefly discuss promising concepts such as cyber-physical systems and energy hubs. Finally, we briefly outline near-future developments in the case of off-shore wind.

Doktorske studije (Aktuelno stanje u oblasti) i Katedra za elektroenergetiku i psi



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