

Welcome to the presentation on:

## Integrating Renewables into Daily Grid Operations

**William Barlak**



### Short Description of the Presentation

In the power industry, customer demand must be balanced in real-time with utility supply. In the past, this task consisted of estimating demand and providing for the supply in advance, and dispatching the supply to meet the demand in real-time. Now, as more and more variable energy resources such as wind and solar are coming on-line, the task of balancing demand and supply is creating very real challenges for those responsible for operating the grid. Mr. William Barlak will speak on the nature of the challenges and how the power industry aims to meet them.

### Speaker's Biography

William Barlak is the Manager of System Reliability Studies at the Energy Control Center of the Los Angeles Department of Water & Power. Mr. Barlak began working for LADWP in 1981 and has spent his entire 34-year career in Operations. He manages a group that performs power flow studies to assess power system reliability for upcoming equipment outages, develops reliable operating strategies to be used during the outages, and recommends the most effective post-contingency remedial action to Load Dispatchers. In his career, he has developed an Excel-based reliability-constrained power flow technique to facilitate reliability analysis of the LADWP power system, and he also developed online reliability tools and models through which the LADWP Reliability Criteria, NERC Transmission Operational Reliability Standards, and Peak Reliability System Operating Limit Methodology are met in real time. He has also developed a technique through which LADWP's Reliability Must-Run Generation is identified and the cost of running this generation is captured after-the-fact. Mr. Barlak received his BSEE (with an emphasis in Power Systems) in 1981 from Fresno State, and received his MSEE in Power Systems in 1984 from USC.

#### Where:

JD 4440 (4<sup>th</sup> floor)  
California State University,  
Northridge  
18111 Nordhoff Street  
Northridge, CA. 91330

**When:** Thursday, Nov 12th , 2015

4:00 – 4:15 PM: Pizza & Networking  
4:15 – 5:15 PM: Presentation

**No Cost, Space is limited –  
Please RSVP at registration link**

#### For more information contact:

Dr. Kourosh Sedghi,  
IAS Chapter Chair  
Email: [ksedghi@csun.edu](mailto:ksedghi@csun.edu)

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