Program Agenda

Tuesday

10:00-11:20 am  Trends and Outlook for Energy in the United States [L. Martin]

11:40-1:00 pm  Energy Resource Adequacy and Reliability [P. Sreedharan & M. Milligan]

2:00-3:20 pm  Integrated Resource Planning and Policy [R. Wilson]
Overview of Integrated Resource Planning state level regulations and utility planning processes. Describes input assumptions, modeling techniques, creation of scenarios/sensitivities, and evaluation of resulting resource portfolios. Examples from recent utility IRPs.

3:40-5:00 pm  Planning for Uncertainty, Extreme Events, and Power Outages [J. Lau]

Wednesday

10:00-11:20 am  Electrification, Demand-Side Modeling, and Demand Response [J. Jorgenson]
Electrification considerations for future planning. Demand and peak load quantification. Flexible loads, now and in the future. Case studies.

11:40-1:00 pm  Demand-Side Programs and Evaluation [J. Taylor]
Types of energy efficiency and demand-side management (DSM) programs; load management and behavior change; program administration models; market transformation, efficiency resource acquisition, and integrated DSM; program evaluation methods; ENERGY STAR as a marketing platform; strategies for the hard to reach; policy and regulatory considerations.
2:00-3:20 pm  **Distribution Systems and Planning** [J. Homer]
Electric distribution systems and aspects of traditional and more advanced distribution system planning. Forecasting loads and distributed energy resources, data management, hosting capacity studies, locational value assessments, and non-wires alternatives. Regulators address distribution planning with DERs and grid modernization.

3:40-5:00 pm  **Pricing Behind-the-Meter Distributed Resources** [R. Ozar]

**Thursday**

10:00-11:20 am  **Economic Evaluation of Resources and Policies** [G. Upton]
Economics of renewable energy resources and portfolio standards. Rate design with intermittent non-dispatchable resources.

11:40-1:00 pm  **Economic Evaluation of Resource Alternatives** [continued]

2:00-3:20 pm  **Setting and Achieving Utility Net-Zero Carbon Goals** [G. Stojic]

3:40-5:00 pm  **Planning Power Systems in the Climate Change Context** [M. Craig]
Climate change impact and immediacy. Changing meteorology. Impacts on bulk power systems. Implications for operating and investment decisions. Utility methods for mitigating climate change risk.

5:00 pm  **Adjourn**
### IPU Power Grid School 2021: Program Faculty

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