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IPU Grid School Course II:

Supply-Side: Energy and Storage, Resource and System Planning, and Reliability and Security

April 8-10, 2025 – Live Online Learning

IPU Power Grid School covers the engineering and economics of the electric utility systems across the supply chain for power and its transformation, from generation to transmission to distribution.

Program Agenda

All times are eastern standard time.

April 8 – Tuesday: Generation and Storage

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|---------------------------|---|
| 10:00-11:20 am
80 min. | Status and future of natural gas supply and infrastructure [Deupree] |
| 11:40-1:00 pm
80 min. | Developing and permitting wind, solar, and storage [Loomis] |
| 2:00-3:20 pm
80 min. | Flexibility, distributed energy resources, and virtual power plants [Ancitil] |
| 3:20-5:00 pm
80 min. | Risk assessment and physical cybersecurity [Ten] |









April 9 – Wednesday: Resource and System Planning






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|---------------------------|---|
| 10:00-11:20 am
80 min. | Nuclear power renewal and small modular reactors [Thomas] |
| 11:40-1:00 pm
80 min. | Transmission expansion, optimization, and coordination [Wiser and Heller] |
| 2:00-3:20 pm
80 min. | Integrated resource planning, portfolios, and permitting [Wilson] |
| 3:20-5:00 pm
80 min. | Grid modernization technologies and implementation [Lau] |

April 10 – Thursday: Reliability and Security

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|---------------------------|---|
| 10:00-11:20 am
80 min. | Reliability and resilience standards and practices [Mitra] |
| 11:40-1:00 pm
80 min. | Levelized cost vs. levelized value of energy resources [Meeusen] |
| 2:00-3:20 pm
80 min. | Sustainability, supply chains, and technology life cycles [Ancitil] |
| 3:20-5:00 pm
80 min. | Planning for decarbonization under a changing climate [Craig] |

IPU Power Grid Course II 2025: Program Faculty

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