

Course Agenda

Week 1

MON, 10/15	AM: Course Opening and Introductions PM: Overview of WASP
TUE, 10/16	AM: Modeling system loads and load forecast in WASP PM: Modeling existing power system in WASP
WED, 10/17	AM: Screening analysis of technologies and modeling of expansion candidates in WASP PM: Development of fixed expansion reference case in WASP
THUR, 10/18	AM: Probabilistic simulation of system operation PM: Work Session: Development of fixed expansion WASP reference case for Korea
FRI, 10/19	AM: Dynamic programming (DP) methodology for optimization of system expansion PM: Strategy for development of least cost generation expansion plan using WASP

Week 2

MON, 10/22	AM: Work Session: Development of initial WASP generation expansion plan for Korea PM: Site Visit: ComEd Smart Grid Test Bed
TUE, 10/23	AM: Pumped-storage hydro, wind, and other special unit representations in WASP PM: Modeling of energy, fuel, and emissions limitations in WASP
WED, 10/24	AM: Work Session: Development of initial WASP generation expansion plan for Korea PM: Overview of GENTEP
THUR, 10/25	AM: Work Session: Development of initial WASP generation expansion plan for Korea PM: Introduction to power system planning basics in GENTEP
FRI, 10/26	Work Session: Development of initial WASP generation expansion plan for Korea

Week 3

MON, 10/29	Work Session: Preparation of report on WASP study
TUE, 10/30	AM: Introduction to mathematical principles in GENTEP PM: Co-optimized generation & transmission expansion planning models in GENTEP
WED, 10/31	AM: Co-optimized generation & transmission expansion planning solutions in GENTEP PM: Co-optimized generation & transmission expansion planning extensions in GENTEP
THUR, 11/01	AM: Demonstration of a web-based version of GENTEP PM: Development of initial GENTEP reference case for Korean power system
FRI, 11/02	1) Market design in the US and world wide 2) Economics of demand-side resources 3) New generation construction in a market environment CLOSING CEREMONY