Lao PDR IRRP Mission #4: RE Zones Update and Energy Supply Workshop

Crowne Plaza Hotel, Vientiane, Lao PDR
January 7-11, 2019

Agenda

Energy Supply Concepts and Modeling Workshop

Time	Description	Speaker/Facilitator
Component 1: Training on optimization modeling with LEAP		
January 7--Afternoon		
13:00-13:10	**Welcome and opening remarks**	SEI
13:10-14:10	**Presentation: Optimization methods for energy system modeling** *Linear optimization fundamentals – parameters, variables, constraints, objective; least-cost and partial-equilibrium problems; perfect vs. limited foresight; software tools and LEAP interface; problem complexity and software performance; solution plausibility)*	SEI
14:10-14:25	**Coffee break**	
14:25-17:00	**Exercise: Optimization modeling in LEAP** *Least-cost optimization of electricity supply using sample data – model configuration, data entry, results generation and interpretation)*	SEI
January 8 (morning)		
9:00-10:30	**Exercise: Optimization modeling in LEAP** *(continued)*	SEI
10:30-10:45	**Coffee break**	
10:45-12:00	**Exercise: Optimization modeling in LEAP** *(continued)*	SEI
12:00-13:00	**Lunch**	
Component 2: Baseline supply modeling		
January 8 (afternoon)		
13:00-16:00	• **Overview of baseline demand model** • **Coal production and fuel imports** *Review data, choose modeling methods and structure model, load historical data and program formulas, explore results; short presentations/demonstrations of LEAP concepts and techniques as needed)*	SEI
January 9		
9:00-16:00	• **Coal production and fuel imports** *(continued)* • **Electricity generation: historical production and existing facilities** *Review, compile, and enter data; explore results; short presentations/demonstrations of LEAP concepts and techniques as needed)*	SEI

Time	Description	Speaker/Facilitator
January 10		
9:00-16:00	• **Electricity generation: historical production and existing facilities** *(continued)* • **Electricity generation: planned facilities, candidate technologies, and reserve margin** *Review, compile, and enter data; explore results; short presentations/demonstrations of LEAP concepts and techniques as needed)*	SEI
January 11		
9:00-16:00	• **Electricity generation: planned facilities, candidate technologies, and reserve margin** *(continued)* • **Electricity generation: availability curves, disaggregation into subnational regions, constraining for plausibility** *Review, compile, and enter data; explore results; short presentations/demonstrations of LEAP concepts and techniques as needed)* • **Identification and assignment of next steps** *(1 hour)*	SEI