



USAID CLEAN POWER ASIA

USAID Clean Power Asia Activities in Lao PDR

Learning and Sharing on Improving Power Sector Generation and Transmission Planning
January 28, 2020
Vientiane

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Key activities in Lao PDR

I. Activities in Lao PDR

- a. Integrated Resource and Resilience Planning (IRRP) and RE zones
- b. Vulnerability Assessment and Resilience Action Plan
- c. Solar pilot auction
- d. RE regulations

2. Regional activities

- a. ASEAN Interconnection Masterplan Study (AIMS) III
- b. Lao-Vietnam cross-border transmission line support
- c. Regional capacity building events

IRRP and RE zones: Progress to date

- Completed LEAP demand and supply models and analysis and selected RE zones for inclusion in study
- Completed two study tours for demand and supply working groups and webinars on preparing IRRP
- Next steps:
 - Joint workshop with JICA including sharing transmission analyses (January 28, 2020)
 - IRRP pathways workshop (4-5 days in March 2020) – RE targets and designating RE zone(s)



Top: DWG delegates at SEI headquarters in USA (Photo credit: Stockholm Environment Institute (SEI)/Abt Associates)

Bottom: SWG members learn how to model supply options using LEAP (Photo credit: Pitoon Junthip/ Abt Associates/USAID Clean Power Asia)

Vulnerability Assessment and Resilience Action Plan: Progress to date

- Completed Assessment and Action Plan in early 2019
- Dissemination workshop in May 2019
- NREL webinar to launch Resilient Power toolkit with presentation by Yevong Nhiavue of Lao PDR
- **Next steps:**
 - Support MEM to implement selected elements of the Resilience Action Plan (with NREL) - TBC:
 - Resilience policies (Action 1)
 - Improving power sector flexibility (Action 2)
 - Final dissemination workshop



Top: Participants in the stakeholder workshop identify, categorize, and assess risks to the Lao power sector

Bottom: participants fill in resilience action sheet
(Photo credits: Dana Kenney/Abt Associates/USAID Clean Power Asia)

Solar pilot auction: Progress to date and next steps



RE Regulations Support

Grid connection requirements

- Solar pilot auction
- Solar rooftops
- Large solar farms

Technical standards

- Technical standards for solar projects in Lao PDR

Guidelines for conducting feasibility studies

- For solar pilot auction
 - Pre-feasibility studies
 - Final feasibility studies
- Solar projects in general
- Wind projects
- Biomass projects

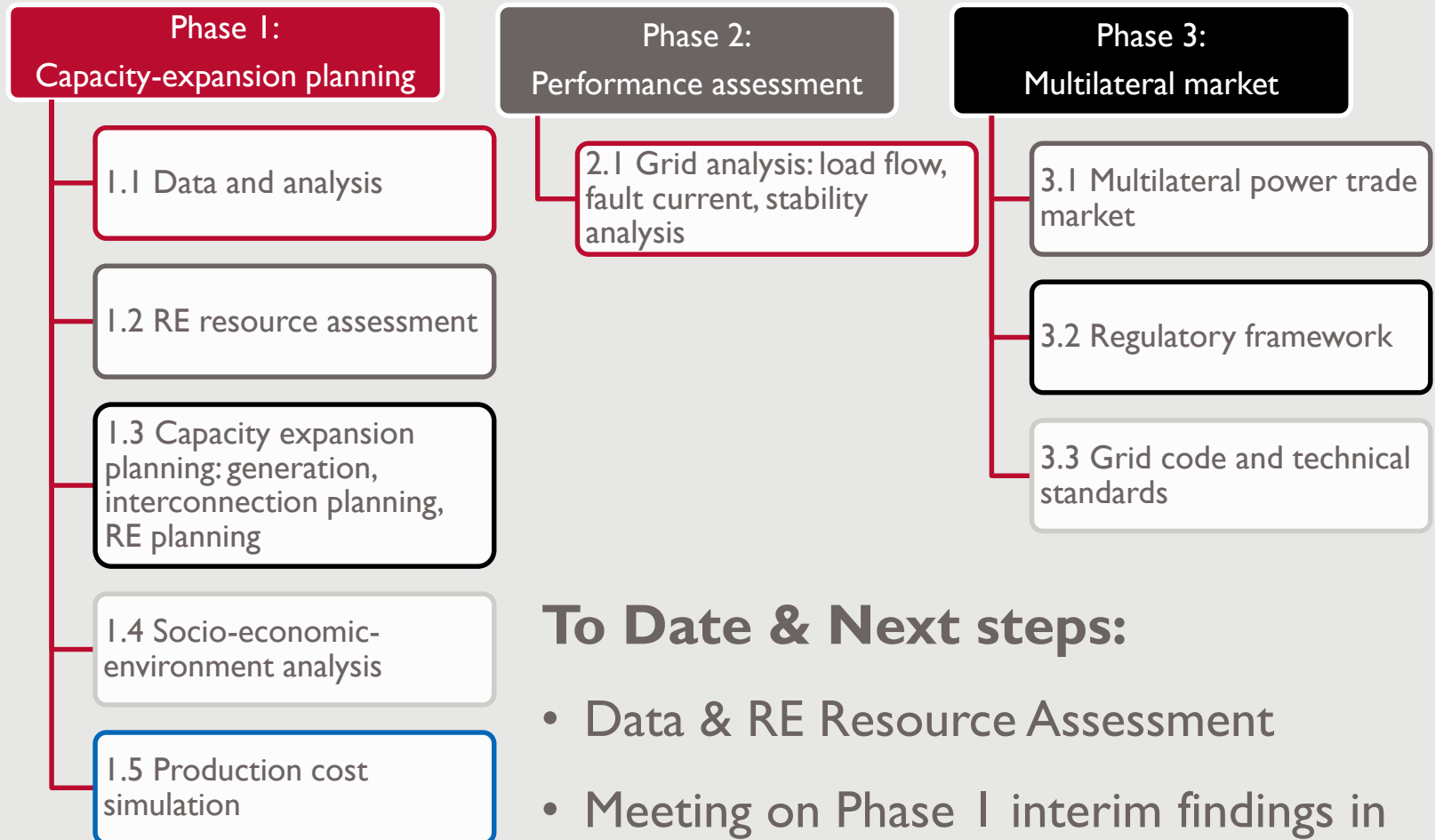


Leon Roose, J.D. and Mr. Marc Matsuura, experts from Hawaii Natural Energy Institute, discuss with EDL the technical operation of Lao 22kv electric distribution lines (Photo credit: Maythiwan Kiatgrajai/Abt Associates/USAID Clean Power Asia)



Mr. Bounngong Bouttavong, Deputy Director of the Technical Department, Électricité du Laos, chaired a meeting with HNEL and USAID Clean Power Asia staff (Photo credit: Supawan Saelim/Abt Associates/USAID Clean Power Asia)

ASEAN Interconnection Master Plan Study (AIMS) III



To Date & Next steps:

- Data & RE Resource Assessment
- Meeting on Phase I interim findings in March (including Lao PDR)

Lao - Vietnam cross-border power transmission line support

USAID Clean Power Asia is supporting development of projects that would facilitate cross-border power trade between Lao PDR and Vietnam.



- Ground-mounted and floating solar projects and a 500 kV transmission line:
1. Lao PDR: Environmental and Social Impact Assessments (ESIA) for projects (ground-mounted solar and transmission line projects).
 2. Vietnam: Technical report of the transmission project, to be included in Lao feasibility study and incorporation into Vietnam's Power Development Plan

Regional capacity building events – Lao participation

Electric Vehicles and E-Mobility, potentially in Lao PDR (TBC)

- Objective- share and scale best-practices in EV deployment in Southeast Asia
- Potential partners include: NREL, IRENA, JICA, GGGI and C40 Cities Finance Facility



Other Regional Events

- International Sustainable Energy Summit (Malaysia) DDW on competitive procurement (April 2020)
- DPV best practices and lessons learned (May 2020)
- Asia Clean Energy Forum (June 2020)
- Others TBD

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