



Laos–Australia Sustainable Energy Partnership

The Laos–Australia Sustainable Energy Partnership (LASEP) aims to support a more sustainable, reliable and profitable energy sector in Laos. This will advance Laos’ National Socio–Economic Development Plan, moving towards a Green Economy and supporting Laos’ ambitions to achieve net zero by 2050. Laos, Australia and ASEAN are working together to address common priorities, such as the clean energy transition.

LASEP at a glance

The Laos–Australia Sustainable Energy Partnership (LASEP) focuses on clean energy and an energy system resilient to the impacts of climate change. LASEP builds on our long-standing cooperation on sustainable hydropower development and water resource management.

LASEP addresses three challenges to support the Government of Laos’ priorities – strengthening energy stability, maintaining reliability, and improving the profitability of the energy sector. It does this through two priority areas of engagement:

- **Improving energy sector planning** by strengthening capacity and the policy and regulatory frameworks to improve planning and decision-making.
- **Accelerating the energy transition** by building understanding and uptake of new clean energy and storage technologies.

LASEP fosters engagement through strong relationships to provide tailored support, brokers Australian partnerships with entities such as the Commonwealth Scientific and Industrial Research Organisation (CSIRO), Australian Energy Regulator (AER), and Australian National University (ANU) in Laos’ energy sector.



Forward priorities

Australia and Laos have agreed to implement activities in the following priority areas:

- Strengthening regulation for renewable energy.
- Knowledge sharing on integrated energy system planning and energy resilience.
- Support the sustainable development of the fast-growing Solar PV industry in Laos.
- Knowledge sharing on energy storage technologies, including pumped-storage hydropower.
- Support exploration of green hydrogen opportunities in Laos.

Advancing ASEAN’s energy agenda

Australia and Laos are committed to working in partnership with ASEAN on issues of regional importance, including the ASEAN Power Grid, climate change and the clean energy transition. This shared commitment will also support the ASEAN–Australia Comprehensive Strategic Partnership and Lao’s regional energy ambitions.

Energy sector planning

Capacity building on energy system planning and grid integration of variable renewable energy



1 x hybrid course



2 x study visits to Thailand



Knowledge sharing roundtables

Supporting the establishment of an energy regulatory body in Laos



2 x multi-day knowledge sharing workshops

Strengthening resilient and integrated energy planning practices in Laos



Energy planning round table



Multi-day knowledge exchange workshops



Energy planning guidance and recommendations

Supporting GoL to strengthen energy resilience in Laos



Knowledge exchange workshops



High-level geospatial mapping of grid infrastructure exposure



Climate change and hazard risk assessment with resilience options



Continuity of Operation Plan and guidelines

Putting Renewable Energy into Action in Laos (Towards an Inclusive Energy Transition)



Knowledge sharing forums

Energy transition

Technical assistance on solar power development and feasibility studies in Laos



Standard operating procedures (SOPs)



Training and knowledge sharing workshops

Developing and Promoting Rooftop solar in Laos



Research study on the potential of rooftop solar in Laos



Report on the policies and incentive mechanism to promote rooftop solar



Recommendations and dissemination of the findings

Assessing potential for green hydrogen ammonia value chain in Laos



Study tour to Australia



Study on the potential for green hydrogen and ammonia industry



3 x multi-days knowledge sharing workshops

Developing, and building capability to implement, Laos' National Hydrogen Roadmap



Laos' national green hydrogen and ammonia roadmap



Establishing a new master program and funding 6 master candidates at the National University of Laos



Trainings and knowledge sharing workshops

Knowledge sharing and study on the use and application of pumped hydro energy storage (PHES) in Laos



Research study on the potential for PHES in Laos



2 x multi days knowledge sharing workshops and training in Laos and Australia



Guideline for PHES site selection tool

Partnerships for Infrastructure

The Australian Government's flagship infrastructure initiative for Southeast Asia, Partnerships for Infrastructure (P4I), leads implementation of LASEP.

P4I works with partners to strengthen infrastructure decision-making and practice across the energy, transport and telecommunications sectors. Our cooperation integrates gender, disability, social inclusion, disaster risk reduction and climate change.