



LEAP Model: Hands-on training

Date: February 26-28 | Honiara, Solomon Islands Venue :

Background

LEAP, the Low Emissions Analysis Platform, is a widely-used software tool for energy policy analysis and climate change mitigation assessment developed at the Stockholm Environment Institute. LEAP users include government agencies, academics, non-governmental organizations, consulting companies, and energy utilities. It has been used at many different scales ranging from cities and states to national, regional and global applications.

LEAP is fast becoming the de facto standard for countries undertaking integrated resource planning, greenhouse gas (GHG) mitigation assessments, and Low Emission Development Strategies (LEDS) especially in the developing world, and many countries have also chosen to use LEAP as part of their commitment to report under the UNFCCC. More and more countries continue to use LEAP to create energy and emissions scenarios that were the basis for their Nationally Determined Contributions and will track their NDC progress based on regular updates of the model results.

Based on the request from the Solomon Islands to **build the capacity of their national experts in using the LEAP modelling**, the CBIT-GSP project intends to address this request by delivering the hands-on in-room training for key specialists from the key ministries and organizations of Solomon Islands on LEAP modeling.

Objective

The main objective of the training is to **instruct and guide the participants** from the key organizations dealing with energy development as well as with modelling and scenarios of GHG emissions, on the **practical use of LEAP model**.

It is expected that the participants will acquire practical knowledge on how to operate with the LEAP model and what type of data are needed for processing. The improved knowledge on LEAP will result in better understanding of the results from LT LEDS for Solomon Islands that was developed using the LEAP model.

Target Audience

The training will gather staff (around 15 persons) working on different climate change projects in the country such as the third national communications, biennial update reports, biennial transparency reports and NDCs. In these projects LEAP can be used as a tool for modelling and scenario analysis of GHG emissions and mitigation actions. It is expected that the participants will represent participants from the Climate Change Division and those organizations that provide data for climate reporting such as Solomon Power, Ministry of Mines and Energy, Solomon Islands Maritime Authority and Partner Projects.





Capacities in LEAP

LEAP has been used in the preparation of the Long Term Low Emissions Development Strategy (LEDS) that was completed in 2023 however this exercise was done by an international consultant and capacities are low internally in understanding the model results. The Climate Change Division has however access to the model and model database connected with LEDS report.

Proposed agenda

Day 1: Feb 26, 2024 (Monday)			
09:00 - 09:10	Registration		
09:10 - 09:30	Welcoming remarks	Climate Change Division	
09:30 – 10:30	 Introduction to LEAP Model Energy Balance, LEAP structure, Reference Energy System, user interface, input data requirements, main outputs. 	UNEP-CCC	
10:30 - 10:45	Health break		
10:45 – 12:30	Modelling energy demand with LEAP (Households, Transport, Industry, Services).	UNEP-CCC	
12:30 - 13:30	Lunch break		
13:30 - 15:00	Training Exercise №1. Setting Current Accounts and Baseline Scenario for the demand sectors (Households).	All participants	
15:00 - 15:15	Health break		
15:30 – 16:45	Training Exercise №1. Setting Current Accounts and Baseline Scenario for the demand sectors (Households).	All participants	
	Solution to Applied exercise. Discussion of obtained results.		
16:45 – 17:00	Quiz 1		
	Evaluation of the Day 1		





Day 2: Feb 27 (Tue)			
09:30 - 10:30	 Modelling energy supply with LEAP: Energy Transformation (electricity generation, oil refineries) 	UNEP-CCC	
10:30 - 10:45	Health break		
10:45 – 12:30	 Training Exercise №2. Modelling transformation sectors with LEAP (Electricity transmission and distribution, Electricity generation). Solution to Applied exercise. Discussion of obtained results 	All participants	
12:30 - 13:30	Lunch break		
13:30 - 14.00	Modelling emissions with LEAP	UNEP-CCC	
14:00 – 15:30	 Training Exercise №3. Modelling emissions with LEAP. Setting up mitigation scenario with LEAP. Solution to Applied exercise. Discussion of obtained results 	All participants	
15:30 - 15:45	Health break		
15:45 – 16:30	Cost-benefit Analysis with LEAP	UNEP-CCC	
	Evaluation of the Day 2		





Day 3: Feb 28 (Wed)			
09:30 - 10:30	Modelling Transport Sector with LEAP	UNEP-CCC	
10:30 - 10:45	Health break		
10.45 - 11.30	Modelling Non-Energy Sectors with LEAP	UNEP-CCC	
11:30 - 12:30	Training Exercise №4 . Modelling Transport Sector with LEAP.	All participants	
12:30 - 13:30	Lunch break		
13:30 - 15:00	Training Exercise №4. Modelling Transport Sector with LEAP. Solution to Applied exercise.	All participants	
	Discussion of obtained results		
15:00 - 15:15	Health break		
15:15 - 15:30	Quiz 2		
15:30 – 17:00	Going through the LEAP model for LEDS project and analysing the results in LEDS report	All participants	
	Evaluation of the Day 3		