**LEAP Model: Hands-on training**

-- In-room training --

Date: **July 19-21, 2023 |** Baku, Azerbaijan

**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 Republic of Azerbaijan 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 Azerbaijan 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 NDC implementation progress in Azerbaijan for better decision making.

**Target Audience and Language**

The training will gather key specialists and experts working on GHG Inventory, modelling and scenario for GHG emissions, mitigation actions and NDC. It is expected that the participants will represent key implementing organizations of the transparency and climate reporting in the face of the Ministry of Ecology and Natural Resources, Hydromet, Ministry of Energy and its subsidiary branches, and Azerbaijan Branch of the REC Caucasus.

The training will be held **in Russian** with possible interventions in English.

**Proposed agenda**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Day 1: July 19th, 2023 (Wednesday)** | | | | |
| 09:00 – 09:10 | Registration | | |
| 09:10 – 09:30 | Welcoming remarks |  |
| 09:30 – 10:30 | Introduction to LEAP Model   * Energy Balance, LEAP structure, Reference Energy System, user interface, input data requirements, main outputs. | Aiymgul Kerimray, UNEP-CCC |
| **10:30 – 10:45** | ***Health break*** | | |
| 10:45 – 12:30 | Modelling energy demand with LEAP (Households, Transport, Industry, Services). | Aiymgul Kerimray, 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*** | | |
| 15:15 – 17:00 | **Training Exercise №1.**  Setting Current Accounts and Baseline Scenario for the demand sectors (Households).  Solution to Applied exercise.  Discussion of obtained results. | All participants |
|  | **Evaluation of the Day 1** |  |
| **Day 2: July 20th 2023 (Thursday)** | | | | |
| 09:30 – 10:30 | Modelling energy supply with LEAP:   * Energy Transformation (electricity generation, oil refineries) | Aiymgul Kerimray, UNEP-CCC |
| **10:30 – 10:45** | ***Health break*** | | |
| 10:45 – 11.30 | Modelling energy supply with LEAP:   * Resources (Coal mining, oil and gas production) | Aiymgul Kerimray, UNEP-CCC |
| 11.30-12.00 | Modelling emissions with LEAP | Aiymgul Kerimray, UNEP-CCC |
| 12:30 – 13:30 | **Lunch break** | | |
| 13:30 – 15:00 | **Training Exercise №2.** Modelling transformation sectors with LEAP (Electricity transmission and distribution, Electricity generation). | All participants |
| **15:00 – 15:15** | ***Health break*** | | |
| 15:15 – 17:00 | **Training Exercise №2.** Modelling transformation sectors with LEAP (Electricity transmission and distribution, Electricity generation).  Solution to Applied exercise.  Discussion of obtained results | All participants |
|  | **Evaluation of the Day 2** |  |
| **Day 3: July 21st, 2023 (Friday)** | | | | |
| 09:30 – 10:30 | Cost-benefit Analysis with LEAP | Aiymgul Kerimray, UNEP-CCC |
| **10:30 – 10:45** | ***Health break*** | | |
| 10:45 – 11.30 | Modelling Transport Sector with LEAP | Aiymgul Kerimray, UNEP-CCC |
| 11.30 – 12.30 | Modelling Non-Energy Sectors with LEAP | Aiymgul Kerimray, UNEP-CCC |
| 12:30 – 13:30 | **Lunch break** | | |
| 13:30 – 15:00 | **Training Exercise №3**. Modelling emissions with LEAP. Setting up mitigation scenario with LEAP.  Solution to Applied exercise.  Discussion of obtained results | All participants |
| 15:00 – 15:15 | ***Health break*** | | |
| 15:15 – 17:00 | **Training Exercise №3.** Modelling emissions with LEAP. Setting up mitigation scenario with LEAP | All participants |
|  | **Evaluation of the Day 3** |  |