Climate, Land, Energy & Water systems:
a Demonstration Model for Mauritius

Understanding Modelling Tools for Sustainable Development

MODULE:
CLEWS COUNTRY MODEL: A LEARNING GUIDE

Assessing Climate, Land, Energy and Water Strategies

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INTRODUCTION

The 2030 Agenda for Sustainable Development endorsed by UN Member States in September 2015 calls for transformative and integrated policies leading towards a sustainable development path. Realizing the vision of the 2030 Agenda requires better informed policy decision-making in all three dimensions of sustainable development along with dedicated attention to their interlinkages. Policies need to support a complex balancing of global goals with national development aspirations while also balancing trade-offs across sectors, goals and targets. Science-informed policymaking will help unveil policy and investment opportunities in all three dimensions. It will also help to define interlinkages that will lead countries towards sustainable development.

This **outreach hands-on training course** aims to enhance understanding of how modelling tools can be used to unveil interlinkages across different policy areas, and how they can inform policy decision-making. The course is a practical guide on the principles of five modelling tools and the insights they can offer to policy decision-making. It is targeted to policy decision makers and development practitioners who want to gain understanding about a selected number of modelling tools available for evidence-based decision-making for sustainable development.

This module looks at the simultaneous effects of selected national sustainable development policies on water and land use, energy costs and investments, emissions and other sectoral impacts. The module illustrates how integrated assessment can help uncover unexpected consequences on, for example, water resources and energy use.

The module explores the food-energy-water nexus through the analysis and discussion of three case studies. It introduces the climate, land, energy and water (CLEWS) approach as a tool for integrated analysis. A hands-on session demonstrates how to use the CLEWS country model.

MODULE: CLEWS COUNTRY MODEL

LEARNING OBJECTIVES

- Understand why food, energy and water should be assessed in an integrated way.

- Understand how to integrate climate, land, energy and water modelling tools into the CLEWS framework.

- Assess the strengths and weaknesses of the CLEWS model in terms of integrated analysis.

- Use the online CLEWS interface to inform debates on sustainable development policies, and the interlinkages among climate, land, energy and water systems.

WORKSHOP SCHEDULE

Key	Session	Dynamic	Time
1	Integrated assessment of climate, land, energy and water systems in countries	Presentation	45 minutes
2	Country cases	Group discussion	45 minutes
	Coffee break		15 minutes
3	Country cases	Presentation of group discussions	30 minutes
4	CLEWS: assessing interlinkages	Presentation	30 minutes
5	Hands-on exercises with CLEWS: introduction to web tool	Work in groups	15 minutes
	Lunch break		60 minutes
6	Hands-on exercises with CLEWS	Work in groups	90 minutes
	Coffee break		20 minutes
7	Report insights from work in groups	Presentation of group discussions	30 minutes
8	Hands-on exercises with CLEWS	Work in groups	90 minutes
9	Report insights from work in groups	Presentation of group discussions	30 minutes
	Total time		**7 hours and 25 minutes**

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