

LAND and WATER USE CONSTRAINTS for SOLAR and BIOMASS ENERGY GENERATION

Policy challenge: Energy generation from SOLAR and BIOMASS sources needs to increase in the country of ATU: what are the LAND and WATER USE CONSTRAINTS and the evidence needed to document these constraints?



Why address it: To better INTEGRATE ENERGY, WATER and FOOD POLICIES due to growing needs for energy, nutritional and water demands

When to address it: Policy makers to PLAN NOW and be OPERATIONAL by 2020

What is the evidence needed?

LAND-USE CONSTRAINTS

- Solar radiation
- Environmentally protected areas
- Land tenure
- Competing land-use needs
- Energy and grid access needs

WATER-USE CONSTRAINTS

- Hydrological mapping
- Competing water-use needs
- Biodiversity of water bodies

CONSTRAINTS COMMON TO LAND & WATER-USE

- Socio-cultural & spiritual values attached to land & water bodies
- Climate Change projections impacting land/water
- Spatial distribution of demand needs & resource location

Other constraints: population growth, social acceptance, etc.

