

Highlights of Manual  
on  
Renewable Energy Technologies  
for Sustainable Energy Solutions  
to Reduce Poverty in South Asia

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Energy Supply and Consumption pattern of a country is a vital indicator of the degree of development

- Achieve food and water security
- Sustainable livelihood of the poor
- Provide sustainable health services
- Capacity building through information sharing
- Communication services
- Upgrading knowledge and skill
- Imparting appropriate education .....

# Inappropriate energy supply and consumption will lead to....

- Global Warming
- Acid rain
- Resource depletion
- Environmental pollution
- Escalation in energy price
- Loss of biodiversity
- Land degradation
- Soil erosion
- Deforestation
- Health hazards....



# About Technical manual

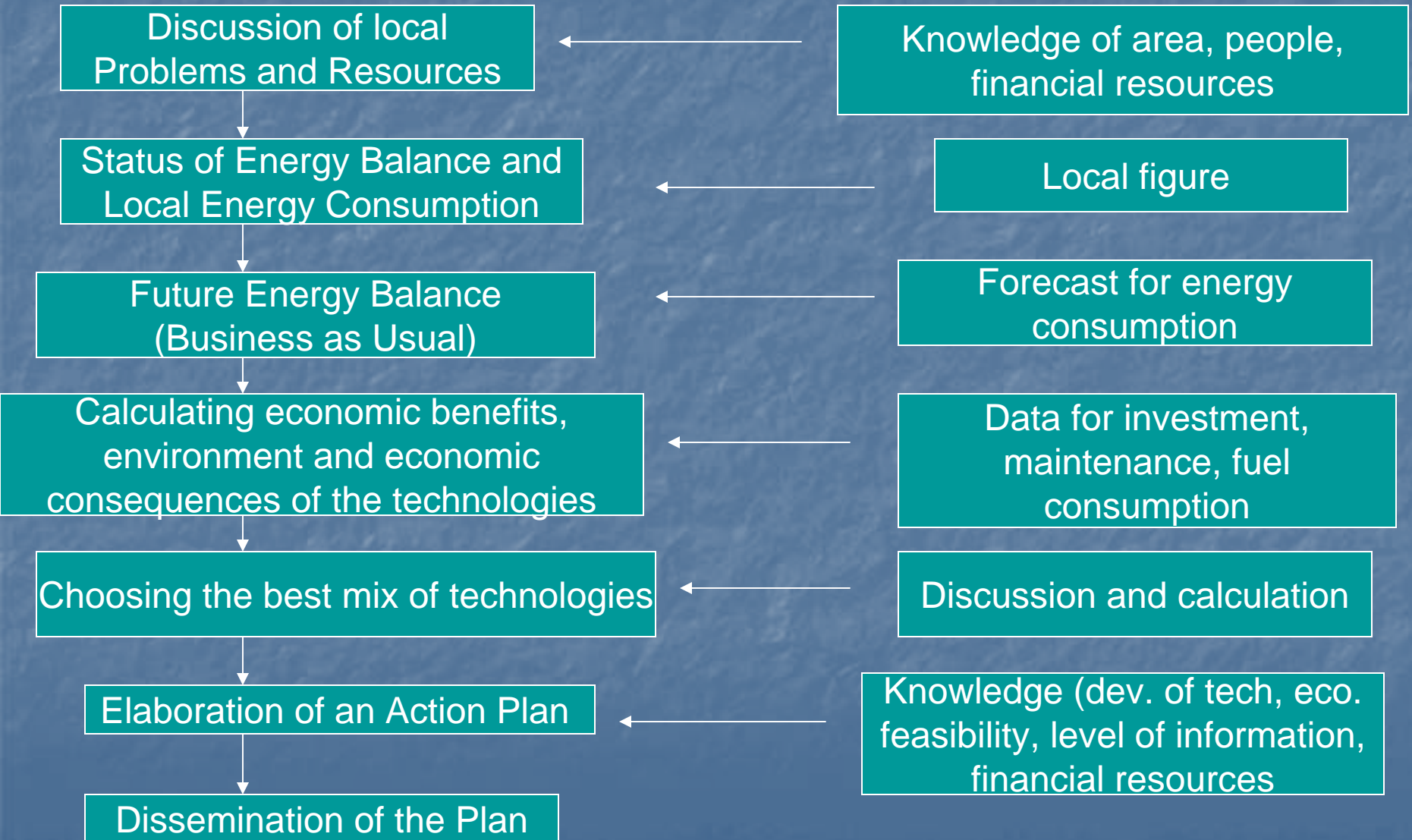
- Four Chapters

- Chapter 1: Introduction
- Chapter 2: Choosing right RET Solution
- Chapter 3: Sustainable Energy Technologies
- Chapter 4: Local Organizations managing sustainable energy
- Financial Manual

# Choosing Right RET Solutions

## Step

## Input



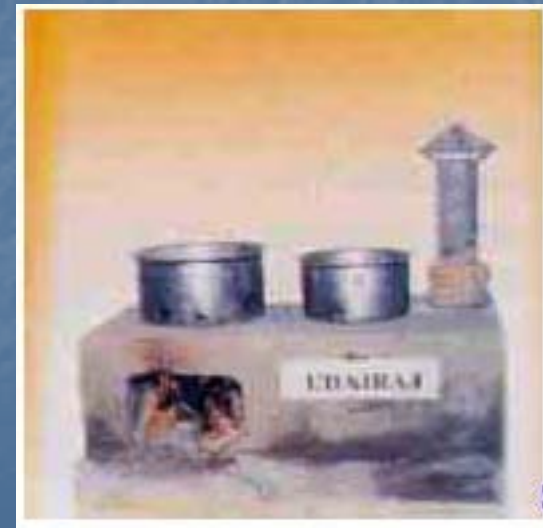
# Sustainable Energy Technologies

- Cooking Devices
- Electricity and Mechanical Devices
- **Others**



# Cooking Devices - Stoves

- Anagi
- Udairaj
- Laxmi
- Improved Cook Stoves
- Honeycomb/Beehive Briquettes



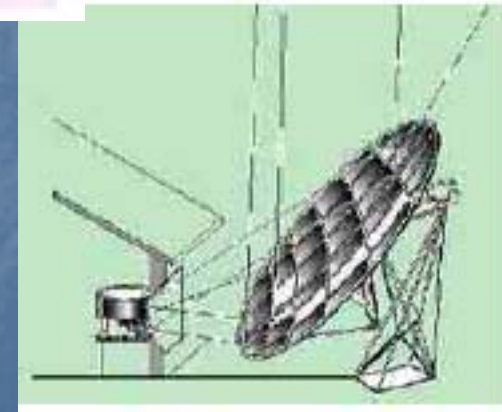
# Cooking Devices - Biogas Technologies

- Floating Gas Holder Biogas Plant
- Fixed Dome Biogas Plant
- Flexible Bag Biogas Plant



# Cooking Devices – Solar Cooker

- Box type solar cooker
- Solar baking unit
- Community solar cooker
- Community solar cooker (Scheffler)



# Electricity and Mechanical Devices

- Solar Photovoltaic Systems
  - Solar Lantern
  - Solar Home System
  - Solar Street Light
  - Solar Tracking Devices
  - Solar Photovoltaic Refrigerator
- Micro Hydro System
- Biomass Based Power Generation
- Windmills for electricity and Pumping
- Animate energy
  - Treadle Pump
- **Electricity conservation**



# Others

- Drying
- Solar Water Heater
- Solar Distillation
- Solar Disinfection and Purification of Water
- Passive cooling and heating of Rooms
- Bio diesel
- Electravan
- Fuel wood plantation





Thank you for your Attention