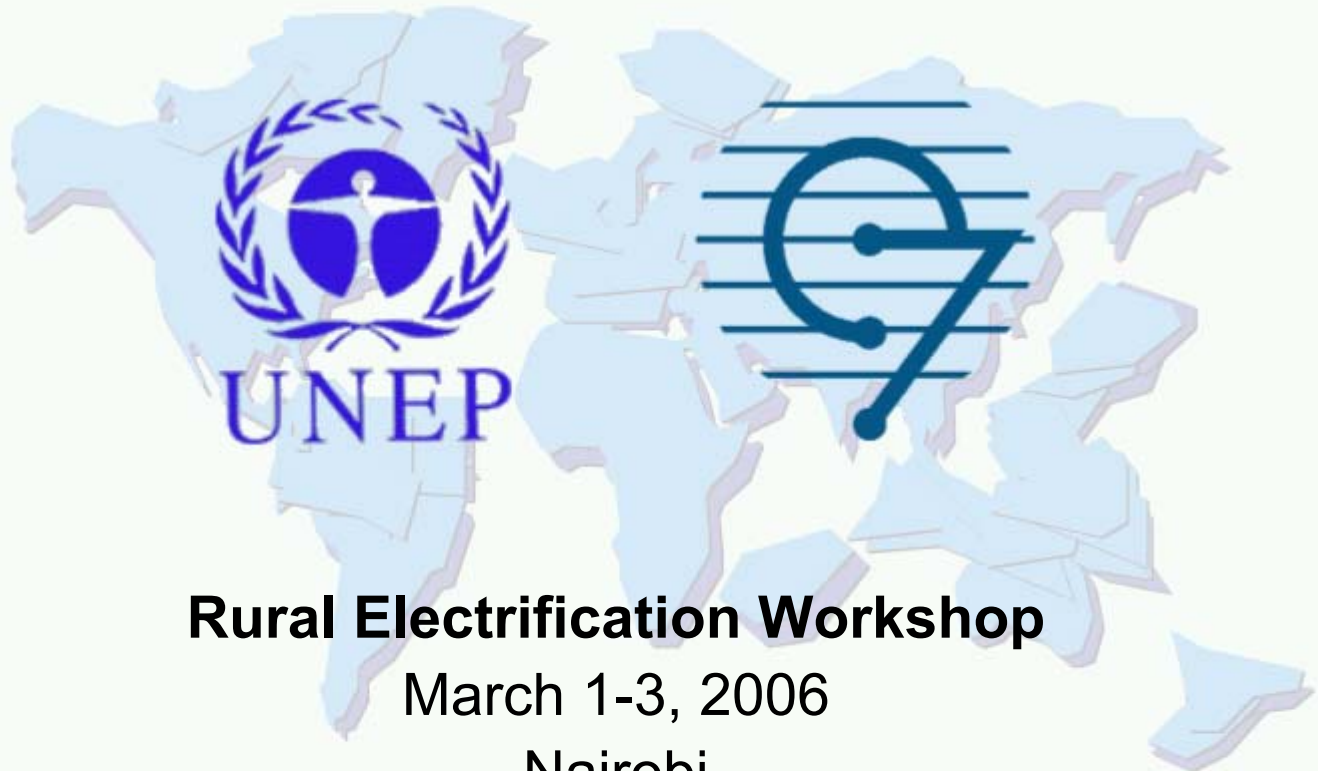


Session 4 Group 3



Rural Electrification Workshop

March 1-3, 2006

Nairobi

- What are the environmental **and social** impacts of rural electrification and how can the positive impacts enhanced and promoted?

Biomass



IMPACTS

Negative

- Deforestation
- Land degradation and soil erosion
- Air pollution
- Loss of biodiversity

- Labour intensive
- Health issues

Positive

- Carbon fixation
- Job creation

- Reforestation
- Waste management

MITIGATION/ENHANCEMENT

- Reforestation
- Reforestation

- Improved technology
- Regulatory measures, protection and regeneration
- Technology
- Improved and efficient appliances and awareness

- Carbon offsets and CDM
- Laws and regulation/ training and capacity building
- Policies to support
- Carbon offsets/CDM, laws and regulations

IMPACTS	MITIGATION/ENHANCEMENT
<p>Negative</p> <ul style="list-style-type: none"><li>Battery disposal<li>Acid soil contamination<li>Health and safety<li>Theft <p>Positive</p> <ul style="list-style-type: none"><li>Clean<li>Easy to operate<li>No carbon emissions<li>Job creation (technicians)	<ul style="list-style-type: none"><li>Recycling facilities<li>Standards<li>Education and training<li>Protective devices/ social facilitation/ ownership <li>Promote social acceptance<li>Awareness<li>Carbon offsets/ CDM<li>Education and training and local participation

Diesel



IMPACTS

Negative

- Water, soil and air pollution
- Carbon emissions
- Sulphur and NOX
- Noise
- Dirty
- Fuel transportation

Positive

MITIGATION/ENHANCEMENT

- Use and alternative technology or improve the efficiency and operation

IMPACTS

Negative

Displacement of people and land

Disruption during civil works

Health – water borne diseases

Sedimentation

Loss of biodiversity and aquatic life

Carbon emitted (methane)

Subject to climate/drought

Positive

Clean

Cheap

MITIGATION/ENHANCEMENT

Resettlement and community involvement

Standards and regulations

Standards and regulations – consider upstream activities

Research and monitoring and managing upstream/ maintenance

Technology/ Standards and regulations/ tree planting

Clearing area prior to flooding

Management

Awareness and education and proper maintenance

Wind



IMPACTS

Negative

Impact on landscape/ visual intrusion

Noise

Interference with wildlife/ birds

Disruption during construction (access roads)

Loss of land

Positive

Clean

No Carbon Emissions

Limited land required

MITIGATION/ENHANCEMENT

Planning and community participation

Technology

Regulation/Wildlife survey

Planning

Planning

Carbon offset/CDM

Transmission line



IMPACTS

Negative

Deforestation

Disruption during
construction

Positive

MITIGATION/ENHANCEMENT

- ENVIRONMENTAL IMPACT ASSESSMENT