Solar for Displaced Communities in Darfur Region of Sudan
Drivers of conflict

*Fixed Natural Capital (Land, Forest, Pasture)*

- Reduced Environmental Services
- Social Unrest
- Armed Movements/Groups
- Displacement (2.5 M IDPs and Refugees)
- Conflict Over Resources
- Human & Animal Population
- Climate Change
- Infrastructure Base
- Poor Infrastructure Base

**Environmental**

**Social**

**Political**
Background: the Solar Project

• The region has been plagued with long conflict and civil unrest since 2003.
• The internally displaced population is estimated as 1.7 million settled in 338 locations in Darfur region and 280,000 refugees in 12 camps in Chad.
• In 2011, the Doha Document for Peace in Darfur (DDPD) was signed between the government of Sudan and Darfur Regional Authority.
• The outcome of the agreement is the Darfur Development Strategy (DDS).
• The Use solar energy for basic services is one of the project proposed for reconstruction of livelihoods to allow the economic development and improve access to social services
The Darfur Peace Agreement and Development Strategy

DDS Solar Electrification Project: Improved access to electricity
Solutions: Solar for Resilient communities (poor infrastructure/no access to fuel)

- Decentralized solar
- Inclusive approach
- Partnership

- Water
- Health
- Education
- Entertainment
- Productive (Solar for agriculture)

- women
- Children
- Elder
- Poor

UNICEF
UNHABITAT
WHO
UNHCR
UNIDO

Resilient communities
Solar for Basic Community Services and Productive activities

Solar for Basic Services
• S4Health
• S4Education
• S4security

Solar for Productive Purposes
• S4Agriculture
# Community Services

<table>
<thead>
<tr>
<th></th>
<th>Service Center</th>
<th>Facilities Run on Solar</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Schools</td>
<td>Class Lighting for Evening Classes + computers</td>
</tr>
<tr>
<td>2</td>
<td>Mosques</td>
<td>lighting + loud speaker</td>
</tr>
<tr>
<td>3</td>
<td>Police station</td>
<td>lighting, communication radio</td>
</tr>
<tr>
<td>4</td>
<td>Health Centers &amp; Rural Hospital</td>
<td>Providing Lighting &amp; Vaccine Fridge + laboratory equipment + theaters + incubators for preterm neonate.</td>
</tr>
<tr>
<td>5</td>
<td>Youth Social Club</td>
<td>TV, satellite, lighting</td>
</tr>
<tr>
<td>6</td>
<td>Street Lighting System</td>
<td>All villages ways</td>
</tr>
<tr>
<td>7</td>
<td>Women Development</td>
<td>TV, satellite, lighting</td>
</tr>
<tr>
<td>8</td>
<td>Water yards</td>
<td>Solar Water Pump</td>
</tr>
<tr>
<td>9</td>
<td>Homes</td>
<td>Mobile Lantern Lamp</td>
</tr>
</tbody>
</table>
Inclusion/No One Behind

**Gender Groups**
- Women (WDC and water)
- Girls pupils (Mobile Lantern Lamp)
- Mid-wives (Mobile Lantern Lamp)

**Age Groups**
- Elders (Farms, Mosques, St Lighting)
- Children (St Lighting)
Sustainability

Financing
Banks:
• Microfinance
• Lending

• Technical Quality
• Quality assurance
• Training
Impacts: Resume Productive system and Livelihoods

• Better health and education services
• Safe and secured movement at night
• Fast police responses to emergent situation (theft of animal & property, intrusion of animals into farmland)
• Entertainment
Thanks