**City-Based Eco-Energy Solutions (CECOS)**

**Expected project CAPEX :** 4'470'000 €

**Mandating Authority :** Lusaka City Council

**Summary**

The main aim of the project is to ensure that the poor population of Lusaka city use off-grid power in their homes. The project will also seek to empower the small-scale businesses to use off-grid power.

**Location and population**

Lusaka City, Zambia

2,1 million inh.

**Social and environmental impact**

- Promote resilience in the energy sector
- Promote economic growth: The small scale businesses using grid electricity to run their business will continue operating in the event of power cuts.
- Ensure sustainable livelihoods

**Main stakeholders**

- Lusaka City Council (LCC);
- Ministry of Local Government and Housing (MLGH); University of Zambia (UNZA);
- Road and Safety Agency (RATSA);
- The Local NGO: People’s Process on Housing and Poverty in Zambia (PPHPZ);
- Zambia Electricity Supply co-operation (ZESCO);
- Zambia Chamber of Trade and Commerce.
### STAGE 1: Concept Development, Site Identification

**Target population**
- Citizens

**Surfaces**
- Tbd

**Climate**
- Sub-tropical

### STAGE 2: Pre-Feasibility Studies

**Pre-feasibility study:** Yes

### STAGE 3: Feasibility Studies

**Feasibility study:** No

### STAGE 4: Permitting / Financing / Contracts

- **Land concession signed:** No
- **Environmental impact study:** NO
- **Identified sources of fundings:** TBD

### STAGE 5: Engineering / Construction / Commercial Operation

- **Engineering, Procurement and Construction Contractor:** TBD
- **Operation and Maintenance Contractor:** TBD
- **Comments**
  - Avoid dependence of the poor urban population on the national Electricity grid; they should become self-sustained with the use of solar power.
  - The informal settlements require solar street lighting to increase security

### Solutions intégrées

<table>
<thead>
<tr>
<th>Solutions intégrées</th>
<th>CAPEX</th>
<th>Description</th>
<th>Comments</th>
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</thead>
<tbody>
<tr>
<td>Solar rooftops</td>
<td></td>
<td>Installing solar power systems on the households for the urban poor: The households will largely be located in informal settlements in the city of Lusaka.</td>
<td>expected more than 300MW</td>
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<tr>
<td>Energy saving bulbs</td>
<td></td>
<td>Low watt bulbs will be purchased and distributed in selected locations to reduce the consumption of power. This will reduce the stress on the already over stretched national electricity infrastructure.</td>
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<tr>
<td>Off grid street lighting</td>
<td></td>
<td>This is needed in the communities where the urban poor population resides. The project will target an informal settlement in Lusaka city</td>
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<tr>
<td>Businesses and houses</td>
<td></td>
<td>Small businesses require reliable and efficient sources of power; this will be achieved through installation of solar power systems on their shops</td>
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