**Doornkop Development Project**

**Expected project CAPEX**: 895,000 €

**Mandating Authority**: Doornkop Communal Property Association

**Summary**

A feasibility study indicated that South Africa has an average of 2,500 hours of sunshine a year or an average radiation of about 1 kilowatt per square meter at noon on a sunny day. Doornkop Village is located in Steve Tshwete Local Municipality and ideally placed to exploit this green Photovoltaic energy source. This energy harvested will be converted into electrical energy to supply households, street lights and hot water.

**Doornkop Communal Property Association**

Reg No: CPA/98/0097/A
Postal Address: PO Box 1409 Middelburg 1090
Email: doornkoplocal@coolcom.net
Cell no: 082 045 8282 / 082 670 6753 / 071 684 9189
Fax no: 086 751 0051

Doornkop Farm (9/7/2016)

**Location and population**

Doornkop, Steve Tshwete Local Municipality, South Africa

17,000 inh.

**Social and environmental impact**

**Main stakeholders**

Doornkop Communal Property Association / Steve Tshwete Local Municipality / Local Government, and National Government.
**Project maturity (IFC / World Bank Categories)**

**STAGE 1 : Concept Development, Site identification**

- Number of Lighting points: Need feasibility study
- Mapping of the street lighting system: YES
- Current installation: Present solar street light has a PV panel, battery and LED Light. The energy from the sun is stored in the battery to light up the Light at night

**Expected energy / expenses savings**
New 200KW generation

**Source of electricity:** Solar connection

**STAGE 2 : Pre-Feasibility Studies**

- Pre-feasibility study: YES

**STAGE 3 : Feasibility Studies**

- Feasibility study: NO

**STAGE 4 : Permitting / Financing / Contracts**

- Contract with municipality: YES, Land owned
- Building permits signed: NO
- Environmental impact study: NO
- Identified sources of fundings: Not Identified

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

- Engineering, Procurement and Construction Contractor: N/A
- Operation and Maintenance Contractor: N/A

**Comments**

Doornkop land is owned by the Community and can, therefore, be developed for the benefit of the Community. Doornkop Village was one of Urban LEDs’ six Community showcase initiatives providing sustainable solutions in South Africa by ICLEI Local Government for sustainability. The Doornkop Community by their own initiative started to acquire Dry sanitation and Composting machine.