

## Best Practices

### Solar Power in Eritrea



Figure 1: CO in Eritrea

The CO in Eritrea is one of UNDP offices that adopted a solar system solution to sustain the local energy consumption in 2013. The CO formerly ran on diesel generators and was continuously faced with diesel shortages and large expenditures from diesel consumption. The installed solar system is supporting the whole office and reduced CO<sub>2</sub> emissions to zero and costs significantly. It has only taken close to two years for the office to recover the initial cost of the solar panel system and so far the local electricity grid and diesel generator is only

running as a backup. Previous to implementing the solar system, the Eritrea CO was regularly faced with disruptions in its workflow resulting from the diesel shortages and inconsistent grid support. The solar system has made the former occasional shortages which impeded daily work, a problem of the past. The UNDP Resident Representative also added that the new system has improved work life balance, as solar systems are a considerable noise reduction compared to diesel generators. The adoption of a solar system at the CO will create awareness of this sustainable solution whereof many more institutions could benefit from. The capacity developed at the CO can be a benefit to and develop the local society.

### GSOL Installation in Kenya



GSOL, a Danish company on LTA with UNDP, installed the solar system in the Ebola affected countries. GSOL have among other supported solar solutions to the Karen Blixen camp where a 9Kw output solar system supports the whole camp including water pump, industrial kitchen, lights and electronic communication equipment. The payback of the system have been 3 years and reduced the daily running hours of the diesel generator to 2 hours. So far it **has reduced Annual CO<sub>2</sub> by 7.65 tonnes**. Karen Blixen camp has been satisfied with the GSOL product to

the extent that they initiated new projects with GSOL.

Figure 2: Installation of PV in Kenya (GSOL).