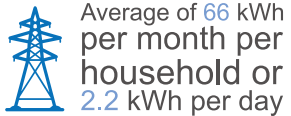


UNHCR and the IKEA Foundation have created the first refugee camp in the world powered by renewable energy. A medium- and low-voltage power network funded by the Saudi Fund for Development connected the IKEA Foundation Solar Plant to refugee shelters, formal and informal businesses, offices and utilities, providing year-round electricity in the camp.

Electricity Access



4,903 shelters
connected to the grid



Average of **66 kWh**
per month per
household or
2.2 kWh per day



16
hours of electricity
provided daily to
shelters



22
organizations and
operational facilities
supplied with electricity

Environmental Impact



3,200 MWh's of
clean energy
produced every year



2,240 tons per year
reduction of CO2

Cost Savings



\$1.17
million of annual reduction
in electricity bills



Anticipated return
on investment
within **3 years**

Improved Lighting



16,950
solar lanterns
distributed to households



430
solar street lights
installed in the camp

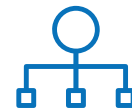


10,006
Energy Efficient
Lightbulbs (LED) distributed

Livelihood Opportunities



50
refugees
employed in the solar
plant construction



120
refugees
employed in the construction
of the electrical network



200
shops
connected in the
2 marketplaces



10
trained refugee
'electricians'
support UNHCR electrical
activities in the camp

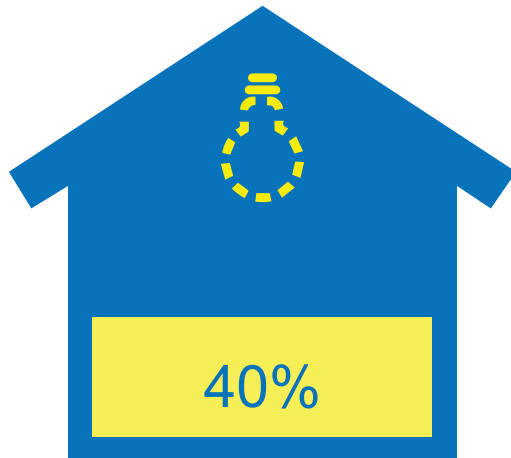
Azraq Electrical Network Physical Facts

The Solar Plant uses **7,788** solar PV panels with the equivalent size of **5** football fields

19 km's of medium voltage cables and **2,700** low voltage poles connect shelters and operational facilities to the local electrical grid.

The Azraq Camp Solar Project is to be implemented over three concurrent phases. By mid-2019 all three phases of PV solar infrastructure will be completed and connections to village 2 and 5 finalized. Overall Azraq Camp will be approximately 70% powered by renewable energy.

Phase 1 | 2 MWp on grid
Completed in June 2017

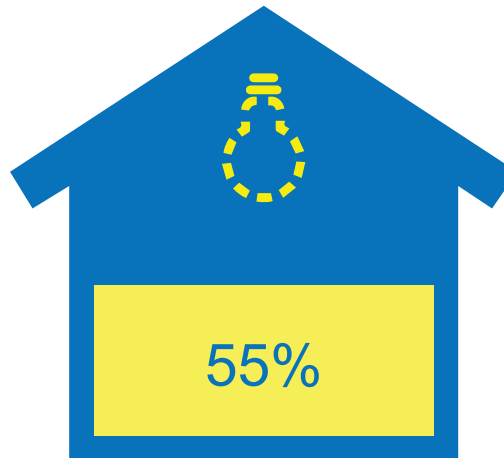


Connected to Villages 3 and 6

Covers up to 35-40% of camp's electrical needs

4,903 total shelters
+ **22** organizations & operational facilities
+ **2** marketplaces

Phase 2 | 2 MWp + 1.5 MWp on grid
To be completed by the end of 2018

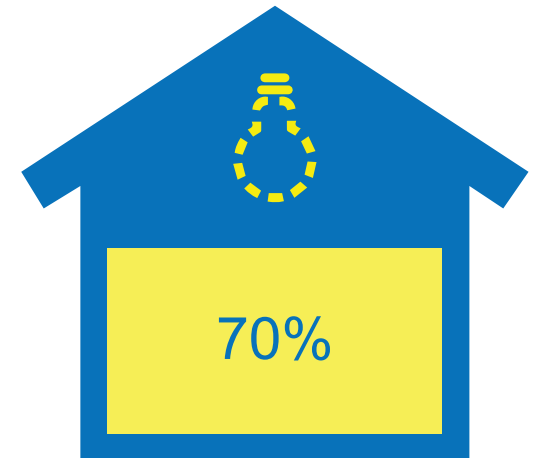


Connected to Villages 2, 3, 5 and 6

Will cover up to 55% of camp's electrical needs

10,470 total shelters
+ **22** organizations & operational facilities
+ **4** marketplaces

Phase 3 | 3.5 MWp on grid
+ additional 1.5 MWp off grid
To be completed in mid-2019



Connected to Villages 2, 3, 5 and 6

Will cover up to 70% of camp's electrical needs

10,470 total shelters
+ **22** organizations & operational facilities
+ **4** marketplaces