SOLARKIOSK’S TECHNOLOGY

- Solar infrastructure solution
- 24/7 autonomous power
- Integrated technology, solar-powered
- Operational efficiency
- Long term durability, low maintenance, high quality components

- Mobile / Portable for easy relocation
- Modular / Expandable to grow with needs
- Versatile / can cater to almost any business
- Connected to the internet wherever you are
- Kit-of-part, easy and fast to implement and disassemble
- Comes as a turnkey solution

IT and components:
- Smart metering
- Remote control available
- POS soon available (2019)
- Own smart metering product soon available

Services available
- Technical services support available
- Tailor made consulting and services available
- Other services available
CASE STUDIES

MARKET CENTERS

WATER CENTERS

COMMUNITY CENTERS

F&B OPERATIONS AND RETAIL

EDUCATION

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HEALTH CARE CASE STUDY: JORDAN

FIRST SOLAR POWERED HEALTH CARE FACILITIES

AL-MAFRAQ CONNECTED SOLAR CLINIC
The solution for basic diagnostic and treatment

700,000 Syrian refugees in Jordan
AL-MAFRAQ hosts a substantial number of Syrian migrants
45% have no access to healthcare

The Connected Solar Clinic
is entirely autonomous from the electrical grid
and provides much-needed healthcare to the region

75 patients per day
~ 20,000 people per year
will benefit from the solar clinic

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EXPERIENCE // FIRST SOLAR POWERED HEALTH CARE FACILITY IN JORDAN

Operated by the Ministry of Health

8 kWp Powering:
• Temperature control (via heating and air conditioning devices)
• Haematology lab
• Ultrasound device
• Urine analysis device
• Refrigerator for vaccines
• Internal and external lights
• Alarm system
• Router for Wifi connectivity
• Computer connected to an e-health platform

“We are excited to see the impact evolving from high quality medical diagnostics and treatment equipment powered exclusively by solar energy!”

Rolf Huber, Managing Director, Siemens Stiftung
HEALTH CARE CASE STUDY: BANGLADESH

The Rohingya refugee crisis is a human rights and humanitarian disaster with more than 1.3 million refugees. Many fled to Bangladesh and set up camps in the city of Cox’s Bazar.

We installed five solar-powered clinics, which now power HOPE foundation’s field hospital’s most important and power-dependent ambulant treatment for the women and children. No other facility in the camps is utilizing renewable energy at this scale.

- **1,000,000 refugees**
- **52% women and girls**
- **40% under 12 yo.**
- **10% access to basic lighting**
- **0.00% Access to grid electricity**
- **0.00035 Hospital beds per person**
- **300,000 People gained access to safe medicines and vaccines**
- **Sterilization and autoclave**
- **Ultrasound room**
- **ECG**
- **Delivery room**
- **5 Solar powered health centres**
- **12 Days to implement**
EXPERIENCE // SECOND SOLAR POWERED HEALTH CARE FACILITY IN COX BAZAAR - BANGLADESH

First facility to apply solar technology at such a scale

- Located in world’s largest refugee camp
- 5 mini clinics with treatment and delivery rooms
- Gender-segregated facilities for women

Powering:
- Air-condition devices
- Fridges for medicine and vaccination
- ECG and other testing devices
- Treatment and delivery rooms

Results:
- increasing number of patients
- ensuring save deliveries
- Ensuring successful surgeries
- medicines and vaccines stay refrigerated
- Uninterrupted services

Dr. Mahmood from HOPE Foundation
“I was not aware of this technology. This solar power solution indeed is ideal for the fast-growing needs in a refugee camp or to help bring relief in disaster relief”
NEXT PROJECT: SOLAR CLINIC FOR MATERNAL HEALTH

THE NEXT GENERATION OF SOLAR CLINICS ON AN ISLAND IN BANGLADESH

- Remote, mountainous area, severely underserved, exposed to heavy monsoon
- Focus on maternal and child health
- **Free care** for all patients that cannot afford treatment
- Costs: 0,24€ solar power solution vs. 0,33€ diesel generator
- Return on investment after 13 years
- Over the lifetime of 25 years, savings of 24.000€
SOLAR MATERNITY CLINIC IN MOHESHKALI ISLAND OF BANGLADESH

4,000
SAVE
deliveries

25,000
WASH
Education

15
New
jobs

7,000
Immunizations

6,000
Family planning

20,000
Antenatal care
CHECK-UPS

5,000
New born
check-ups

700
High-risk
pregnancies
referrals

5.500
Postnatal care
check-ups

20,000
Primary care
consultations

256,546
Population
388 km²
Land area

<50% Healthcare
needs coverage

4 KM Average distance
tavelled to health
services

<34% Funded

Levelized
cost of

Diesel LCOE: 0.33€
PV LCOE: 0.24€
Savings: 0.09€

13.34%
Access to
electricity

HEALTHCARE FOR
50,000

SOLAR POWER FOR

- Essential electrical healthcare diagnostics
- Computers and Internet
- Air-conditioning
- Refrigeration
- Light
Important for healthcare:
1. Reliable electricity vital for delivering health services for:
   • **Uninterrupted services**
   • Constant protection of vaccines
   • **Quality light** to deliver high quality medical services
   • Decent, **temperature controlled environment** for dignified deliveries
   • **Internet** connection for patient data records

2. Community work
   • **Community-based approach** with local professionals and partners
   • **Understand eminent needs** of host community
   • Strong **partnerships**, leveraging on unique strength of every partner
   • **Gaining the trust** of the people in the community