SOLAR SUITCASE
System Overview

SOLAR PANEL
Keep Clean and Out of Shade

LAMPS

CHARGE CONTROLLER

12V BATTERY

EXTRA 12V BATTERY

AA/AAA BATTERY CHARGER
Use Only Rechargeable AA/AAA Batteries

PHONE

LAPTOP

FETAL DOPPLER

HEADLAMPS
Nepal
Ethiopia
Uganda
Our Approach

**PARTNERSHIPS**

We implement our programs with government agencies and trusted partner organizations in more than 20 countries.

**BUILDING CAPACITY**

Our “train the trainer” programs, led by our Women Solar Ambassadors, build capacity in solar installation.

**EDUCATION FOR CLINICIANS**

We ensure midwives and doctors are properly trained on the use of our fetal heart rate monitors, and solar equipment.

**SUSTAINABILITY**

We train district technicians to maintain and service our equipment and handover our programs to local governments.
Our Partners

- Unicef
- Pathfinder International
- World Health Organization
- UN Women
- UNFPA
- WEEMA International
- Jhpiego
- Hamlin Fistula Ethiopia
- Safe Mothers Safe Babies
- Save the Children
- PHIL
- One Heart World-Wide
- AMREF
- Africare
- The Republic of Uganda Ministry of Health
- Liberia Ministry of Health & Social Welfare
- Stiftung Solarenergie
- Energising Development
Current Reach

3,900
Solar Suitcases deployed to health facilities

45
Implementation partner organizations

3.6MM
Mothers and babies served

15,000
Health workers trained in use and maintenance
The Solution: The We Care Solar Suitcase®

- Simplified Interface
- Additional Lights
- 5 year lithium battery
- Expandable
- Remote Monitor
Light Every Birth

Light Every Birth - Liberia
Saving lives by increasing health facility access to safe, reliable electricity using innovative We Care Solar Suitcases

We Care Solar in Collaboration with the Ministry of Health and partners
Light Every Birth Campaign

- Distribute Solar Suitcases to health centers in priority countries through strategic partnerships.
- Conduct robust research to demonstrate the impact of energy access on maternal health.
- Build advocacy campaign to champion reliable electricity for maternal health services.
- Strengthen alliances to increase services and investments in Energy for Health.
5-Year Goal

5 country saturation
7,900 health centers
15.8 MM beneficiaries
5-Country Plan

- Liberia
- Uganda
- Sierra Leone
- Zimbabwe
- Tanzania

<table>
<thead>
<tr>
<th>Country</th>
<th>Installed to Date</th>
<th>Target Number of Clinics</th>
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<tr>
<td>Liberia</td>
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Thank you
5-Country Plan

Country Plan

Installed to Date  Target Number of Clinics

Liberia  Uganda  Sierra Leone  Zimbabwe  Tanzania
Greater uptake of skilled care by mothers
Improved health worker morale & confidence
Improved capacity to provide obstetric care
24 hour lighting for c/sections and emergencies
Accurate fetal heart rate monitoring
Timely referrals

Fear of night duty; safety concerns
Difficulty with diagnosis and treatment
Difficulty monitoring fetal well-being
Emergency communication hindered
Delayed and cancelled procedures including cesarean sections
Our Model

To save lives in childbirth by eliminating energy poverty in health centers

**Product Development**

**Manufacturing**

**International logistics**

**Building Local Capacity**

**Partnerships, Solar Installation and Servicing**

**Evaluating Impact**

Key:
- Light yellow = WCS mostly drives
- Light brown = Mostly outsourced
- Orange = WCS and partner drive
300,000 mothers and 2.9 million newborns die each year from complications of pregnancy and childbirth, often in unlit and poorly equipped health centers.

The majority of these deaths are preventable.

72% of health centers in sub-Saharan Africa lack reliable electricity. (WHO, 2013) 25% have no electricity at all.

Without reliable electricity, mothers and newborns are at increased risk for complications, injuries and death.
5 full-country programs

7,900 health centers

15.8 million mothers and newborns
Our Aims

Extend our country-level programming to five African countries by 2024

Champion clean energy solutions for health care among policymakers and investors

Create African Regional Center for program oversight, inventory, trainings, etc.

Build an international coalition of practitioners to address the energy needs of health centers throughout Africa

Promote gender equity, women’s empowerment and youth innovation in our energy programs.
Past and Current Funders

- UBS Optimus Foundation
- UN Women
- UN DESA
- Wells Fargo
- United Nations Foundation
- CLIF Bar Foundation
- Music for Relief
- Every Mother Counts
- PG&E
- GlobalGiving
- Electric Aid
- MacArthur Foundation
- The Montefiore Foundation
- Global Health Foundation
- GreenLamp
- Newman's Own Foundation
- Segal Family Foundation
We work with the poorest communities at the intersection of health, energy, gender equality, partnerships and climate change.

In addition, our We Share Solar education program fosters quality education and employment opportunities.
Case Study: Light Every Birth Liberia

Impact: 368 Solar Suitcases installed enabling 73,600 safe deliveries per year

Population: <5 million
Maternal Mortality Ratio*: 725 per 100,000 live births
National Electrification Rate*: 20%

Estimated Public Health Center Need: 450
Solar Suitcases Installed To Date: 368

Partners: Ministry of Health, UNICEF, UNFPA, UN Women, Jhpiego, Africare, EnDev, PHIL
Funders: UBS Optimus Foundation, Gilead Foundation, Meadow Fund, Music for Relief, UNICEF, UN Women, GIZ, Africare, PHIL
Evidence: IPA Qualitative and Quantitative Evaluation

Funding to Date: $1,464,229

*Ref: World Bank, WHO
Case Study: Light Every Birth Uganda

**Impact:** 600 installed enabling 120,000 safe deliveries per year

**Population:** 45 million  
**Maternal Mortality Ratio***: 343 per 100,000 live births  
**National Electrification Rate***: 27%

**Estimated Health Center Need:** 2,000  
**Solar Suitcases Installed:** 600

**Partners:** Ministry of Health, Ministry of Energy, UNICEF, CUAMM, Save the Children, Ugandan Private Midwives Association, Pathfinder, AMREF, IntraHealth, Brick by Brick, Healthy Child Uganda  
**Funders:** UN Foundation, UBS Optimus Foundation, Wells Fargo, Meadow Fund, Music for Relief  
**Evidence:** Saving Lives at Birth Grand Challenge, IPA Randomized Controlled Trial

**Funding to Date:** $1,800,000  
**Funding Needed:** $3,843,892

*Ref: World Bank, WHO*
Team

Laura Stachel, MD, MPH,
Co-Founder and
Executive Director
14 years as Ob/Gyn
10 years public health and
non-profit management experience

Samantha Parsons,
Chief Operating Officer
19 years of international
development and management
expertise

Hal Aronson, PhD,
Co-Founder and
Director of Technology and Education
Solar innovator and educator
with 15 years teaching experience

Christina Briegleb, M.P.H.,
Director of Programs
10 years of public health, program
management and research

Brent Moellenberg,
Director of Engineering
15 years of development engineering experience