Operation: Shine a Light

Russian attacks on Ukrainian infrastructure have left many hospitals and temporary surgical environments operating in darkness.
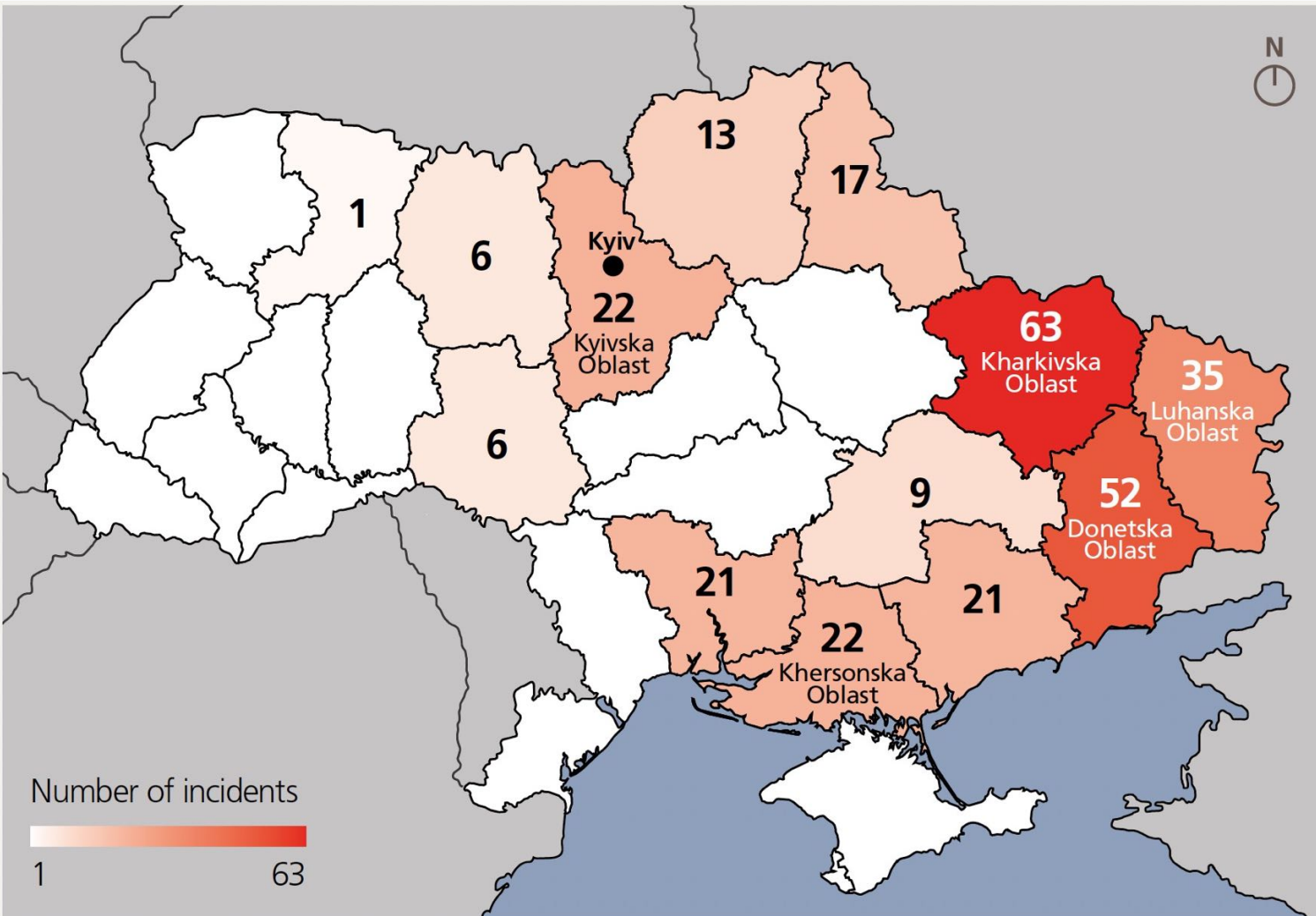
INTERSTATE DISASTER MEDICAL COLLABORATIVE

MedGlobal

HTWB HEALTH TECH WITHOUT BORDERS

MPOWERD®

Image Provided by: © 2022 Dr. Oleh Duda

Russian Attacks that Damaged or Destroyed Ukrainian Hospitals by Oblast from 2/24/22 to 12/31/22

Number of incidents

1   63

Source: Attacks on Health Care in Ukraine, Security in Numbers Database. Data as of December 31, 2022.

With 218 hospitals reported damaged or destroyed, **close to nine percent of Ukraine's hospitals have been directly damaged from attacks.** As the map clearly shows, the destruction is most marked in the east of the country. In some cities and towns, nearly all the health facilities were affected in some way. According to the Ukrainian Healthcare Center (UHC), in **Mariupol and the southern part of Donetska oblast, almost 8 out of 10 points of health care service provision, sites where medical assistance is provided, were either damaged or destroyed.** The oblasts that experienced the most attacks on hospitals were Kharkivska, Donetska, Luhanska, Khersonska, and Kyivska.

Source: Physicians for Human Rights (PHR) "Destruction and Devastation: One Year of Russia's Assault on Ukraine's Health Care System" February 2023

IDMC, MedGlobal and Health Tech Without Borders have teamed up with MPOWERD to:

Provide solar powered lanterns with cell phone chargers, string lights and headlamps to participating healthcare facilities and medical responders in Ukraine.

MPOWERD's Solar Powered Products

MPOWERD Product	Use Case	Location Type	User Type	Mobile Phone USB Charger
Luci Beam Headlamp	Targeted Lighting for Diagnostics, Treatment, Surgery	Surgical Environments	Physicians, Medical Responders	No
Luci PRO Outdoor 2.0	Passive Overhead Lighting	Surgical Environments, Patient Rooms	Physicians, Medical Responders	Yes
Luci CORE	Passive overhead Lighting using adjustable arm to connect to surgical lamp	Surgical Environments	Physicians, Medical Responders	No
Luci Solar String Light (18')	Passive Lighting for Patient Transport in Hospital Hallways	Hospital Hallways or Surgical Environments	Medical Responders, Support Staff	Yes
Luci Solar String Light (44')	Passive Lighting for Patient Transport in Hospital Hallways	Hospital Hallways or Surgical Environments	Medical Responders, Support Staff	Yes

MPOWERD®

Luci Beam Headlamp

Product features:

- Recharge via solar or quick-charge with USB (8 hours / 2 hours)
- Dual-use adjustable strap: Secure headband for headlamp, and convenient wrist strap for flashlight
- Highly adjustable 90° tilt on unit: Shine straight ahead, position the beam facing downwards, or anywhere in between
- Set includes: 1x headlamp body, 1x headlamp mount, 1x flashlight body, 1x headband/wrist strap, 1x micro-USB cable
- Compact, durable, and water resistant (IPX4)
- 1 year manufacturer's warranty

Headlamp specs:

- Battery: 650 mAh Lithium-ion
- Battery indicator
- 2 white LEDs / 2 red LEDs
- High mode: 300 lumens - 2 hours
  Medium: 100 Lumens - 6 hours
  Low: 10 lumens - 24 hours
- Size: 62 W x 45 L x 35 H mm

Flashlight specs:

- Battery: 4,000 mAh Lithium-ion
- Battery indicator
- 2 white LEDs / 2 red LEDs
- High mode: 300 lumens - 4 hours
  Medium: 100 Lumens - 12 hours
  Low: 10 lumens - 30 hours
- Size: 62 W x 149 L x 35 H mm

All specifications pending test completion and finalization

ELECTRICITY TRIAGE: SAVE PHONE BATTERY, FOCUS LIGHT

ELECTRICITY TRIAGE: USE RED LIGHT FOR DISCRETION

Image Provided by: © 2022 IDMC

Luci PRO Outdoor 2.0

150 Lumens for up to 50 hours on a single charge- with cell charging capabilities.

Product features:

- Finish: Clear
- Brightness: Up to 150 lumens
- 10 cool white LEDs
- Adjustable base strap + fixed top strap
- Built-in USB port (USB-A charge in & out)
- Lightweight: 6.1 oz (173 g)
- Waterproof: IP67
- Packaging: Carton box with hanging strap
- 1 year manufacturer's warranty

Dimensions:

- Diameter: 5 inches (12.7 cm)
- Height: 5 inches (12.7 cm) when inflated

Product functions:

- 4 modes: low, medium, high, flashing
- 2 second quick shut off
- Battery level indicator

Charge:

- Lasts up to 50 hours on a single charge
- Recharge via solar or quick-charge with USB (14 hours / 2-3 hours)
- Rechargeable 2000 mAh Li-ion battery
- High efficiency solar panel

Luci CORE

Attach the adjustable arm to stationary objects to direct light for up to 12 hours on a single charge.

Product features:

- Finish: Matte
- Brightness: 40 lumens
- 3 cool white LEDs
- 13 ¾" adjustable silicon arm to hold light in any position
- Built-in one-way USB port to charge light
- Lightweight: 4 oz (124 g)
- Water resistant: IPX4
- 1 year manufacturer's warranty

Dimensions:

- Diameter: 4 inches (10.1 cm)
- Height: 1.2 inches (3 cm)

Product functions:

- 4 modes: low, medium, high, flashing
- 2 second quick shut off

Charge:

- Lasts up to 12 hours on a single charge
- Recharge via solar or quick-charge with USB (13 hours / 1 hour)
- Rechargeable 450 mAh Lithium Ferric battery
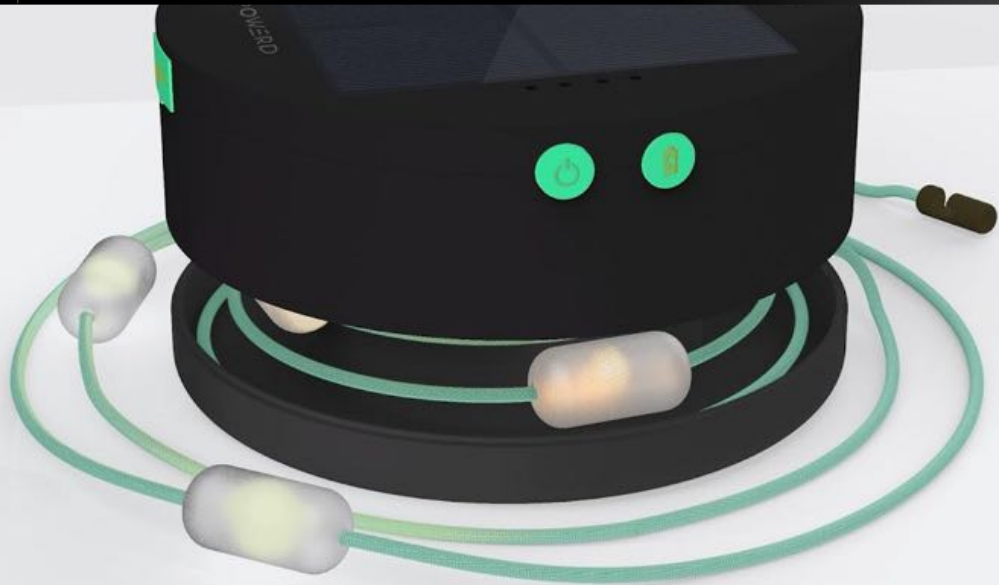- High efficiency solar panel

ELECTRICITY TRIAGE: CONSERVE GENERATOR ENERGY

Product features:

- Expandable design
- 18 ft cord
- 20 warm white LEDs in 10 nodes
- Hanging cord
- Built-in USB ports (micro USB charge in, USB-A charge out)
- Lightweight: 11.3 oz (320 g)
- Water resistant: IPX4
- Operating temp: 32°F - 113°F (0°C - 45°C)
- 1 year manufacturer's warranty

Dimensions:

- Diameter: 5 inches (12.7 cm)
- Height: 2 inches (5 cm) when closed

Product functions:

- Warm white color
- 4 modes: Front LED on, lights on string at low, medium, high
- Press and hold power button for 2 second quick shut off
- Battery level indicator

Charge:

- Lasts up to 20 hours on a single charge
- Recharge via solar or quick-charge with USB (16 hours / 6-8 hours)
- Rechargeable 2000 mAh thi
- High efficiency solar panel

40 Hours of light across 44 feet of cord. Unit is detachable from string to make charging easier by leaving string setup intact. Battery can also charge cell phones.

Product features:

- Expandable and detachable design
- 50 ft cord
- 40 warm white LEDs in 20 nodes
- Silicone coated base for stability
- Removable silicone handle
- Built-in USB ports
- Water resistant: IPX4
- Operating temp: 32°F - 113°F (0°C - 45°C)
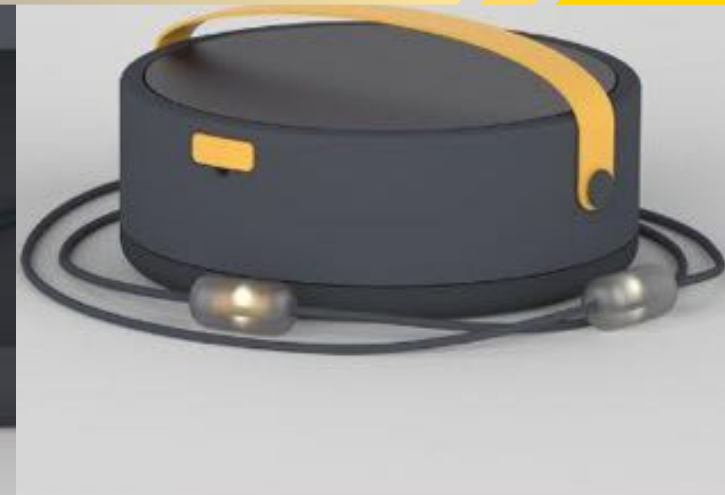- 1 year manufacturer's warranty

Dimensions:

- Diameter: 7 inches (17.8 cm)
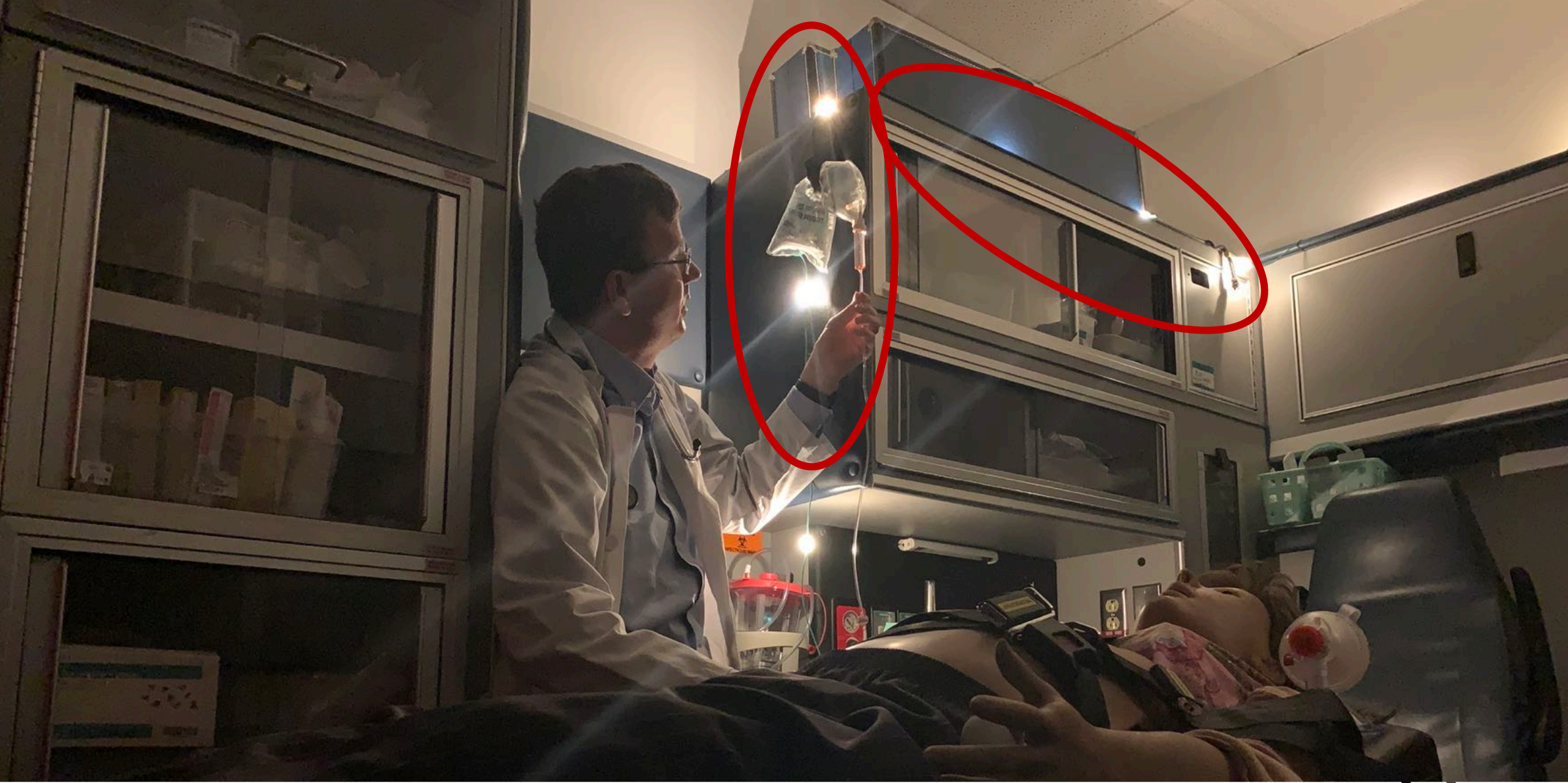- Height: 2.5 inches (6.3 cm) when closed

Product functions:

- Detach unit from string
- 3 modes: Low, medium, high
- Press and hold power button for 2 second quick shut off
- Battery level indicator

Charge:

- Lasts up to 40 hours on a single charge
- Recharge via solar or quick-charge USB
- Rechargeable 4,000 mAh Li-ion battery
- Monocrystalline solar panel

ELECTRICITY TRIAGE: STRING LIGHTS TO FREE UP HANDS

The Campaign Process

Phase 1

Objective:
Collect data from Ukrainian Healthcare facility representatives to determine what kinds and how many MPOWERD products are needed

Data Requested will Include:
# of Surgical Environments
# of Corridors/Hallways + Length
# of Surgeons/Medical Responders
# of Patient Rooms

Phase 2

Objective:
Raise funds through online marketing campaigns, and soliciting donations from HNWI's or Fortune 500 company's philanthropic groups

Online Channels will include:
- PayPal Donations for 1-time Donation
- Benevity Sign-up for Pay Cycle Donation

Phase 3

Objective:
Deliver funds to MPOWERD Impact team to procure and package order for specific healthcare facilities

Phase 4

Objective:
Package from MPOWERD Impact team delivered to IDMC Logistics Hub, who will coordinate transport and delivery to designated location within Ukraine

IDENTIFY HOSPITAL → **FUNDRAISE** → **PROCURE PRODUCT** → **DELIVER PRODUCT**

IDMC is a 501(c)(3) nonprofit organization which provides support for state and regional disaster medical teams and projects.

The Interstate Disaster Medical Collaborative began as an informal group of disaster medical experts in 2007 and incorporated in 2011 as a 501c3 to help coordinate state and regional resources in response to the devastating tornado in Joplin, Missouri. Since that time, all-volunteer organization has helped to build, grow and improve disaster medical resources across the nation

Using best practices developed in our U.S. model, IDMC is focused on providing support to partner agencies for the provision of medical care to people in need around the world. For responder organizations, IDMC fills requests for field medical equipment and personal protective equipment including hazardous materials gear. Our non-profit organization accepts donations of medical supplies from hospitals, fire departments, manufacturers and others and ship them to partner agencies for their medical care use in theatre, or to hospitals or government agencies responsible for civilian medical aid.

Image Provided by: IDMC

MedGlobal

MedGlobal is a humanitarian charitable NGO that provides emergency response and health programs to build resilience among vulnerable communities around the world.

MedGlobal was launched in 2017 by a diverse group of doctors, nurses, global health specialists, and humanitarians to address the health needs of the most vulnerable populations. Our health programs support victims of wars and disasters, refugees, internally displaced persons, and marginalized communities in disaster-affected and low-resource settings. MedGlobal field teams support local health programs for vulnerable populations in North and Latin America, Africa, MENA region, Europe, and Southeast Asia.

HEALTH TECH
WITHOUT BORDERS

Health Tech Without Borders (HTWB) is a global non-profit organization leveraging digital tools and technology to provide immediate access to health resources. HTWB acts as an innovative hub that connects companies offering digital tools with experts in medical and psychological care.

Founded in 2022, the organization provides digital health interventions, such as online consultations, remote monitoring, and digital therapeutics by connecting qualified and vetted volunteer clinicians to those wounded by humanitarian disasters, war, or assault. HTWB also offers online trainings for clinicians in crisis areas.

OUR INITIATIVE UKRAINE TELEHEALTH RELIEF

Launched in 2022, the "**Ukraine Telehealth Relief**," provides free of charge telehealth and remote consultations to the people of Ukraine.

HTWB aim is:
1. to help hospitals in Ukraine cope with the influx of patients;
2. to provide psychological support to people affected by the conflict;
3. to accompany Ukrainian refugees who have left their homes and now live in other parts of Europe;
4. provide advisory and expertise to local hospitals.

Image Provided by: HTWB

MPOWERD®

As MPOWERD grows, so too does their impact. Through partnerships, Give Luci program, and every Luci purchase, MPOWERD'S ability to impact lives and the environment increases.

	2018	2019	2020	2021	2022
US Tons of CO2 Averted	1,208,737	1,488,437	2,442,756	2,540,585	3,000,000
Lives Impacted	2,955, 660	3,639,595	3,733,210	3,882,720	4,300,000
NGO Partners	502	650	700	700+	700+

UN SDGs. We are committed to working towards the UN Sustainable Development Goals. Our products have both a direct and indirect impact to 9 of the goals.

MPOWERD is on a mission to transform lives with thoughtfully designed, clean technology.

Our innovative products give people the power of self-reliance — because we believe that everyone deserves to be empowered and inspired regardless of how or where they live.

In 2012 MPOWERD created Luci, the first inflatable solar light with the goal of making an affordable clean energy product that people could use in any situation. Since then, our vision hasn't changed too much; we create sustainable, affordable, and thoughtfully designed products that suit the needs of the many.

Certified Ⓑ **Corporation**

If your organization is interested in sponsoring a healthcare facility in need, please contact us:

Shine-a-Light@idmc.us

Or make a personal donation:

https://idmc.us/shine-a-light.html

100% of Donations will go towards the Mission!