A woman with a blue patterned headscarf and a blue cardigan is holding a lit solar lamp. She is in a cluttered room with various items on shelves in the background. The lamp is glowing, illuminating her face and the surrounding area.

# Energy Access in Humanitarian Settings: Nepal Earthquake



Sandeep Giri  
CEO, Gham Power



# NEPAL EARTHQUAKE 2015

Updated 21 May 2015



8,622 Dead  
16,808 Injured  
39 Districts affected  
2.8 million People displaced  
10 billion (\$) in economic losses



## MAJOR EARTHQUAKES

**7.8** magnitude  
15 km depth

25 April 2015  
( 11:56 AM )

Barpak, Gorkha

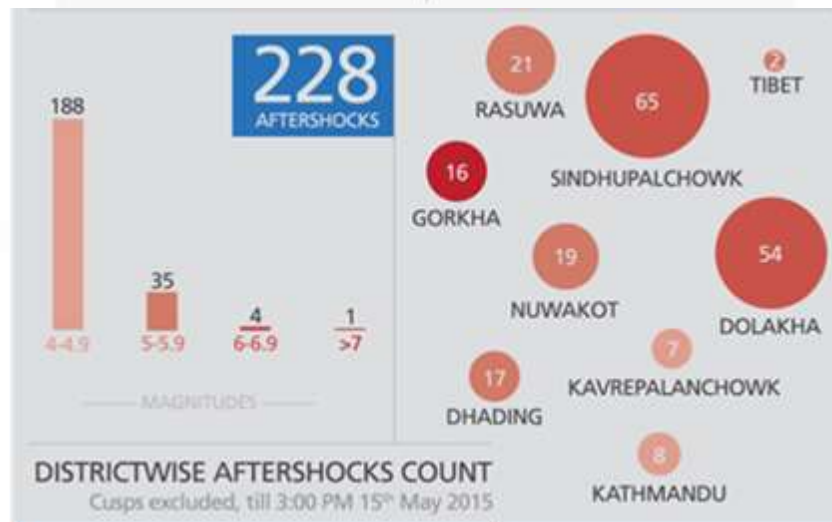
Latitude  
28° 08' 49.2"  
Longitude  
84° 42' 28.8"

**7.3** magnitude  
15 km depth

12 May 2015  
( 12:50 PM )

Chilankha,  
Dolakha

Latitude  
27° 50' 13.199"  
Longitude  
86° 4' 37.199"



Source: icimod.org  
FactsNepal

 **Gham Power Nepal Pvt. Ltd.**  
Ph.: 01-4721486  
www.ghampower.com

 **Gham Power**















• सामाजिक स्वास्थ्य सेवा  
• त्रि:शुल्क सेवा

• कृष्ण रोग उचचार सेवा  
• औलो त्रि:शुल्क सेवा



Do you want to file a report? Click on "Submit a Report" or SMS: +977 9802017413 (NCELL) +977 9860782874 (NTC)  
 email:quake@kathmandulivinglabs.org

Are you a responding organization? Get into the dispatch process by filling out this form: <http://bit.ly/1JRH1wA>

June 17th: We are continuously following up on all **actionable reports** to verify whether help has been received. Check comments and action summaries for current status of reports. See more on this [here](#)

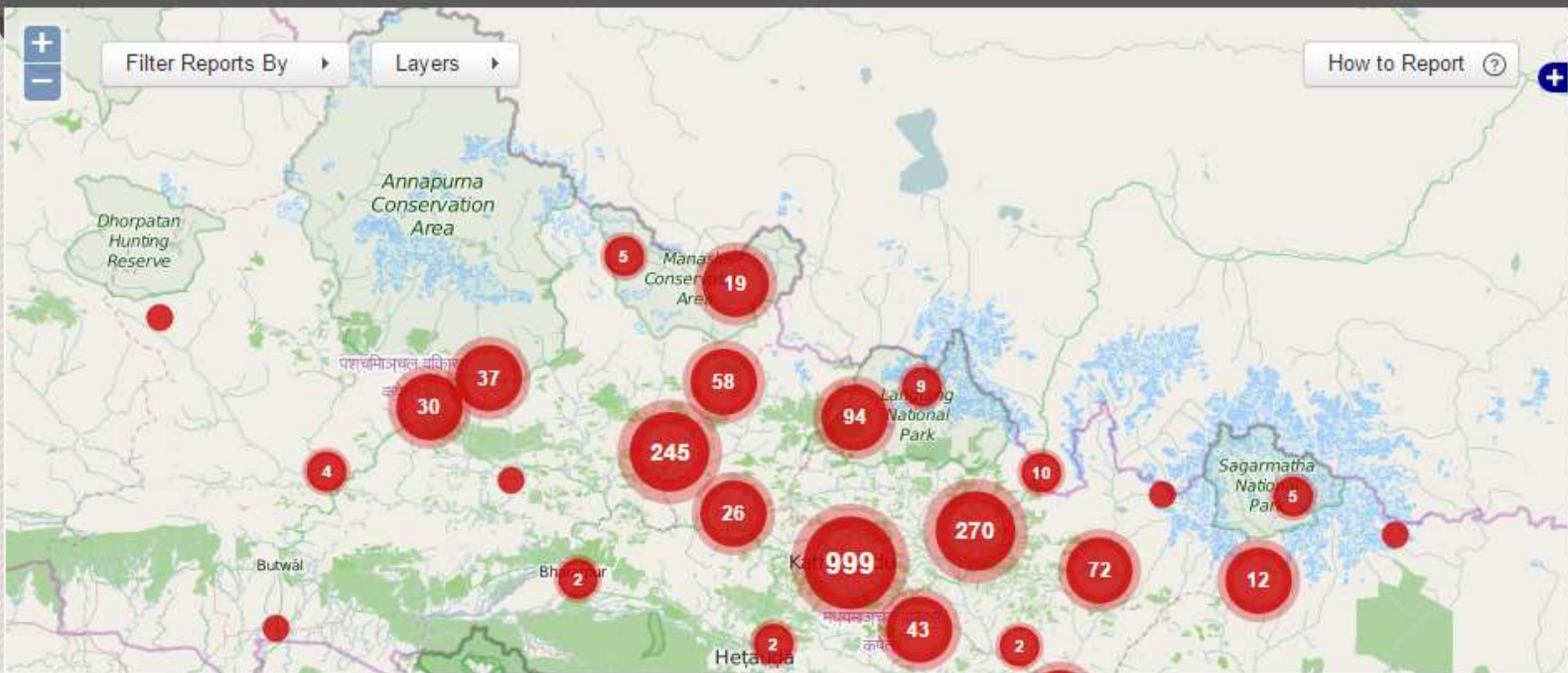
We have recently re-categorized "response needs" categories by the relief cluster system

Printable Lists of Reports (beta):[bit.ly/quakemap-print](http://bit.ly/quakemap-print)  
 Self Updating Excel export (beta):<http://bit.ly/quakemap-org>

If you are responding to a report, tell us!. This helps us prevent duplication of relief efforts. Use email, phone, or comment on the report. Always use the contact details on the report to conduct secondary verification before responding.

Note: The reports on this site are coming from different sources. We do not send relief ourselves. Our reports help others, including the **Nepal Army** to coordinate and conduct relief efforts.

All information submitted on this site becomes public!, including contact details.



<http://nepalquake.ghampower.com>

Please list electrical power needs for earthquake relief work at temporary shelters or rural villages in Nepal needing support. We will share this information with local solar companies and both national and international relief agencies to solicit help. Filing this form does not guarantee you will get support, however this will share your request with a broader audience who are willing to provide help for Nepal earthquake victims. See all submitted requests at <http://nepalquake.ghampower.com/request-map>

**\* Required**

**Name of Person Making Request \***

Please type your full name

**Contact Phone**

your best contact number (preferably mobile)

**Contact Email \***

**Location Name**

What is the name of the site / neighborhood?

**Location Address \***

Where is the site located? Please provide full address - put in only street name, city or VDC name, and district for address. Putting in "just down the street from the school" doesn't work well when relief workers are trying to find your site from the address you type here.

**Google Map Latitude**

Right click on map marker, choose "What's Here", and copy latitude coordinates (e.g. Tumdihehi should be "27.702799, 85.315517", so type "27.702799" in the field below)

**Google Map Longitude**

Right click on map marker, choose "What's Here", and copy longitude coordinates (e.g. Tumdihehi should be "27.702799, 85.315517", type "85.315517" in the field below)



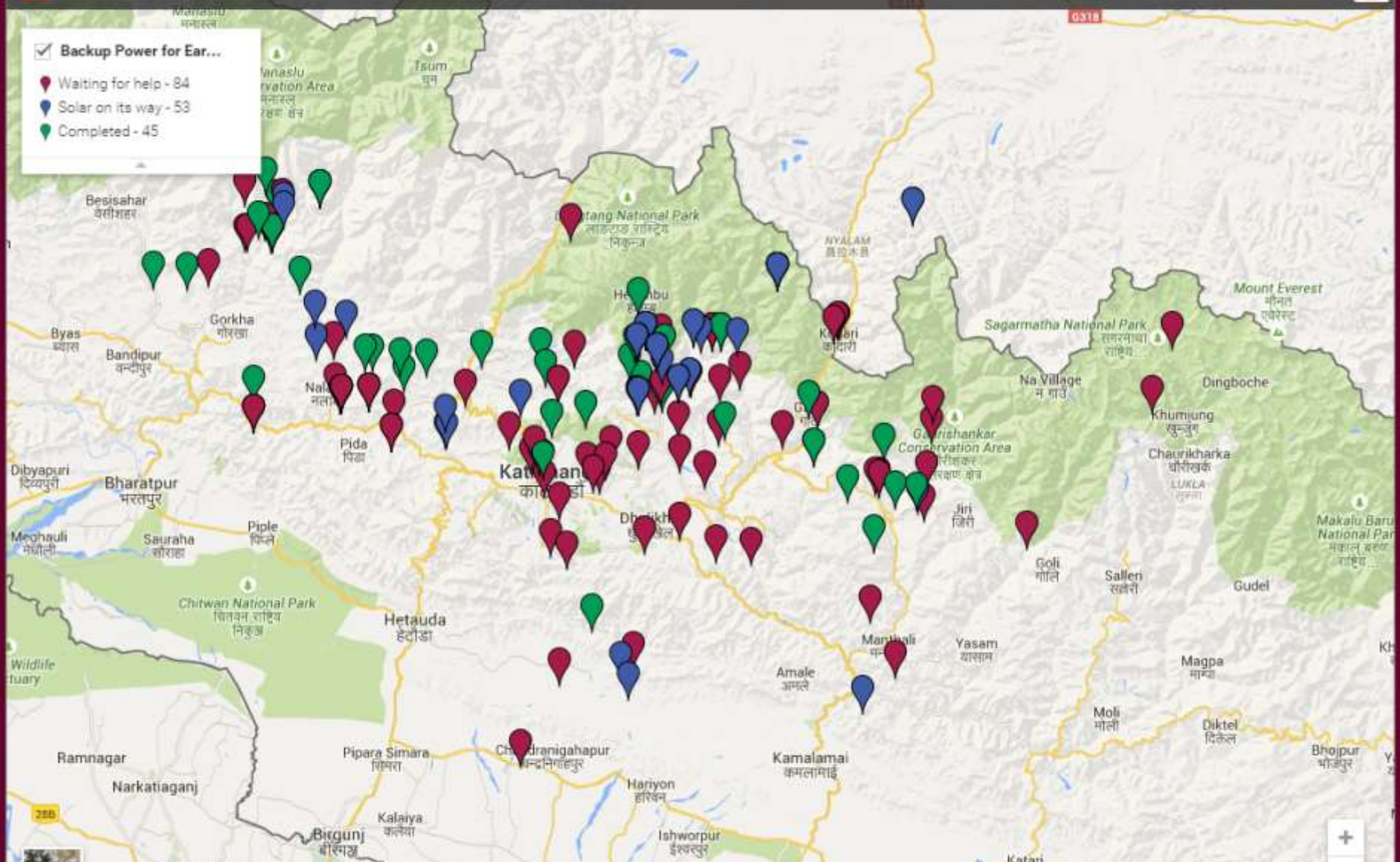
<http://nepalquake.ghampower.com/request-map>

Relief Request Map

Request for Backup Power for Lights and Phone charging

Backup Power for Ear...

- Waiting for help - 84
- Solar on its way - 53
- Completed - 45







Page

Messages 1

Notifications 6

Insights

Publishing Tools

Settings

Help

# Help bring solar power to provide relief and rebuild for a clean-powered future.



## Rebuild With Sun

Community

Sign Up

Liked

Message



Timeline

About

Photos

Likes

More

Promote

THIS WEEK

7  
Page Likes

496  
Post Reach

2  
Sign Up

Recent

2015



457 likes +7 this week

Adriz Basnet and 127 other friends



496 post reach this week



Invite friends to like this Page



Reach a new milestone

500 Likes

Promote Page

Status

Photo / Video

Offer, Event +



What have you been up to?



Rebuild With Sun

Published by Alyssa Newman [?] · June 18 at 11:43am ·

Empower Generation, our collaborator in SolarCity's #GivePower #RebuildWithSun commitment is on track to bring solar charging to over 200 schools! We're meeting with them in #SanFrancisco tonight.

Chat (11)



# Nepal: Rebuild With Sun

🚨 Emergencies

📍 Kathmandu, Nepal



Help bring solar power to provide relief and rebuild for a clean-powered future.

**\$12,897** USD

raised by 139 people in 1 month



🚩 \$50,000 USD goal

**Fundraiser Ended**

📱 Share on Facebook 625

INDIEGOGO  
life



Organizer  
**Alyssa Newman**  
📧 Contact



GLOBAL NEPALI PROFESSIONAL NETWORK

## Update #9

17 days ago

Indiegogo shared that our campaign would be included in their payments this week. Thanks again for your support. We continue to get great press on our effort, and will continue to share updates on our [Rebuild With Sun Facebook page](#). Your contributions, and connections mean so much, thank you!

## Donations 139

\$25  
Anonymous  
29 days ago





Mark Ruffalo retweeted  
 Danny Kennedy @dannysfun · 8h  
 I just did my promise to Give to Nepal: Rebuild With Sun! Can you do it too? Shine on [igg.me/at/LL0cSD3PGkY](#).... Raise funds on [#indiegogolife](#)  
 23 69 View summary

**UPWORTHY**  
 Things That Matter. Pass 'Em On.

Environment ...

# Rebuilding with sun: A story of hope, innovation, and positivity for Nepal

Curator: [Laura Willard](#) Like Follow

A special Upworthy series about global health and poverty, made possible by the Bill & Melinda Gates Foundation. [Read more](#), then check out more in [All 7 Billion](#).

June 23, 2015

HUFF POST THE GENERATION CH

Editor: U.S. · Like 100k · Follow

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Impact · Impact X · Global Motherhood · Third Metric · Inspiring Leaders · What's Working · Small Businesses ·

THE BLOG Featuring fresh takes and real-time analysis from HuffPost's signature lineup of contributors

HOT ON THE BLOG Elizabeth Gilbert Leo W. Gerard Barack Obama Dr. Peggy Drexler

Doing good — in an environmentally responsible way. Win-win.

Tara Lohan Environmental journalist writing about water, energy, tech and politics.  
 How Solar Can Help Power Nepal's Relief and Recovery Efforts  
 Posted: 06/11/2015 3:19 pm EDT | Updated: 06/11/2015 8:59 pm EDT

205 69 249 2

Like Share Tweet 265 Comments

Many of Sandeep Giri's coworkers still feel the ground beneath them shaking. They are scared to step inside their homes. And those are the lucky ones that still have homes.

Jigar Shah @JigarShahDC · 7h  
 Help #Nepal #Solar @ghampower campaign #RebuildWithSun - provide lights + mobile chargers for #NepalQuakeRelief ow.ly/MqdQk  
 3 4 View summary

The CHRISTIAN SCIENCE MONITOR

Passcode | The Monitor Breakfast

World | USA | Commentary | Business | Energy / Environment | Technology | Science | Culture

ENERGY/ENVIRONMENT | ENERGY

## In quake-prone Nepal, why solar power is an energy solution (+video)

Developing and disaster-prone nations such as Nepal are turning more to solar power as a response to climate change, and as a path toward energy security and economic stability.

By Jessica Mendoza, Staff Writer | JUNE 1, 2015



















































Deaths

Percentage of  
Population  
Killed

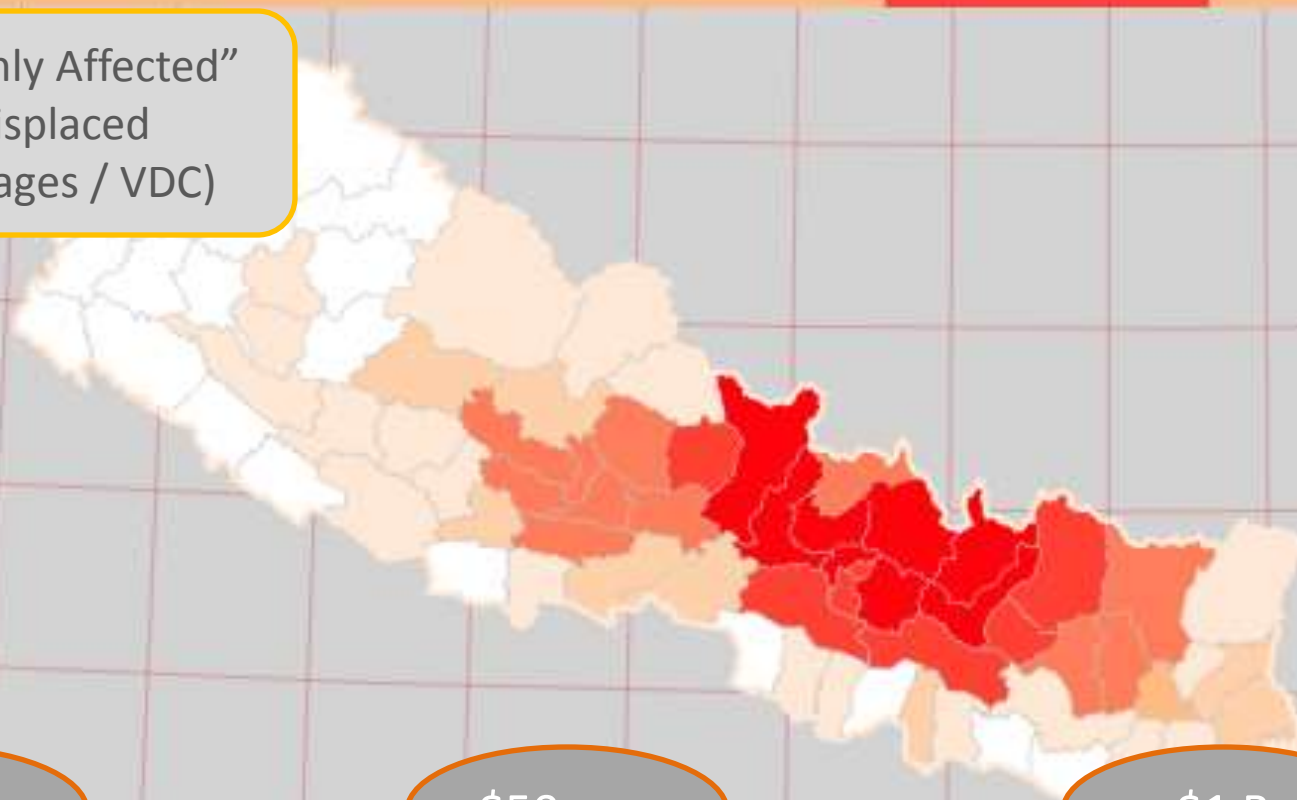
Injuries

Percentage of  
Population  
Injured

Houses  
Destroyed

Houses Partially  
Destroyed

14 Districts: "Highly Affected"  
 2.8 million displaced  
 746 VDC (~3 villages / VDC)



\$31 mm

\$50 mm

\$1 B

Immediate (~60 days)

- ~1 mm personal lights + mobile charging kits
- ~1,000 community charging stations

Near Term (~6 months)

- Transition from charging stations to picogrids
- ~10,000

Long Term (post 6 months)

- Picogrids -> Microgrids
- ~20,000
- Productive End Use



# Gham Power: Solar Project Developer, Social Enterprise



- Started in 2010
  - Provide Solar PV systems at costs below diesel
  - Focus: Microgrids + Productive End Use (PEU)
- 549 kw installed; 589 projects:
  - Possible Health Bayalpata Hospital (12 kW)
  - Maiti Nepal Shelter for Trafficked Girls (8 kW)
  - EVK2 Lab @ Mt Everest base camp (10 kW)
  - US Embassy for Nepal (23 kW)
  - UNICEF (42 kW)
- Scale = Standardize projects -> Aggregate  
-> Provide financing (PPA, PAYG)



# Thanks!



Sandeep Giri  
CEO, Gham Power  
[sandeep@ghampower.com](mailto:sandeep@ghampower.com)