

# “Powering essential services during the COVID-19 pandemic and beyond”

**Emily McAteer**  
Board Member, ARE  
CEO, Odyssey Energy Solutions

25 November 2020

© Ryse Energy & acciona.org Foundation

# Links between SDG-3 and SDG-7



Lack of sufficient and reliable electricity, is a major challenge for health care facilities to provide essential services in rural areas.

- 70% of medical devices cannot be used in developing countries due to unreliable power supply
- Only 41% of health care facilities have access to reliable electricity across the world.
- In rural areas of Sub-Saharan Africa the figure is 28% (!)
- The absence of quality health services is attributed to the death of more than 289,000 women and 1.7 million children annually worldwide.



# Key Challenges: Powering Essential Services in Rural Areas

Challenges identified in ARE publication: “[Best Practices for Electrifying Rural Health Care Facilities with Decentralised Renewables](#)” (launched July 2020):



Providing reliable, long-term sustainable (technical, financial and social) electricity solutions for rural health facilities



Fast-tracking the delivery of health care services to rural communities in need



Identifying energy needs and delivering electrification of health care facilities at scale, rather than as “one-off” projects



**Best Practices for Electrifying Rural Health Care Facilities with Decentralised Renewables**

# DRE Health Projects – Main ARE takeaways



Projects must combine **speed and scale of delivery** in the short term with **project sustainability and longevity** in the long term.



In ARE's view, a **public-private partnerships (PPP)** model that combines **smart grants** with a **market-based compensation mechanism (PPA)** is the best way to strike this balance.



Delivery models based on PPP's and which **integrate high-quality, innovative technologies** can help **de-risk** and **crowd-in private capital**.



# ARE case studies (1/2)

## ENGIE PowerCorner

28 kWp solar mini-grid  
*Zambia, Chitandika*



## Gham Power

200 kWp solar for hospital  
*Nepal, Chitwan*



## GRID Alternatives

3.19 kWp solar for clinic  
*Nepal, Jodhgaun*



## HT Energy

2.88 kWp solar-hydrogen for clinic  
*Malaysia, Long Loyang*



## IDCOL

100-280 kWp solar mini-grids  
*Bangladesh*



## Mlinda

25 kWp DRE mini-grids  
*India, Gumla*



## NTUA (ICCS)

0.6 kWp wind for clinic  
*Nepal, Mityal*



## Phaesun

14.4 kWp solar for hospital  
*Eritrea, Asmara*



# ARE case studies (2/2)

**Resolve**  
5-10 kWp health dispensaries  
*Malawi*



**Ryse Energy**  
8 kWp wind & solar mini-grid  
*Chile, Los Lagos*



**Schneider Electric**  
12 kWp solar for health centre  
*Nigeria, Dakwa*



**Solergie**  
0.3 kWp solar for health centres  
*Togo, Kamina & Brounfou*



**Studer Innotec**  
960 kWp solar for health centre  
*Colombia, Alta Guajira*



**Trama TecnoAmbiental**  
3.5 kWp solar for health facilities  
*Ghana, Northern & Volta regions*



**WeCareSolar**  
0.13-0.25 kWp solar suitcases  
*Liberia*



**Winch Energy**  
16-110 kWp solar mini-grids  
*Sierra Leone*



# Join ARE today!



## Special offers for new incoming Members joining before 10<sup>th</sup> December 2020:

ARE Membership Packages	Benefits	Condition	Unique offer for ECOWAS companies
<b>Regular</b> 2020 + 2021	<ul style="list-style-type: none"><li>- Free 2020 Membership</li><li>- One Free Newsletter Article (worth 520€) with a readership of more than 12k</li><li>- Company promotion on social media</li></ul>	Membership fees to be paid in one go	+ 10% discount
 <b>Popular Choice!</b> <b>Premium</b> 2020 + 2021 + 2022	<ul style="list-style-type: none"><li>- Free 2020 Membership</li><li>- Two Free Newsletter Articles (worth 1040€) with a readership of more than 12k</li><li>- Company promotion on social media</li><li>- 1 free ticket for <a href="#">EAIF</a> in 2021 (worth appx. 400€)</li></ul>	Membership fees for 2021 + 2022 to be paid in one go	+ 10% discount

# Get in touch with ARE to help you grow in the sector!



**David Lecoque**  
CEO  
[d.Lecoque@ruralelec.org](mailto:d.Lecoque@ruralelec.org)  
+32 2 709 55 25

## Alliance for Rural Electrification

Rue d'Arlon 69-71  
1040 Brussels, Belgium  
[are@ruralelec.org](mailto:are@ruralelec.org)  
[www.ruralelec.org](http://www.ruralelec.org)

Subscribe to ARE Newsletter

Follow ARE online



ARE offsets its travel-related CO<sub>2</sub> emissions

