Photographs taken on site

Hospital relies on expensive DG sets which is a huge burden

**ONLY HEALTH ACCESS POINT for poor and marginalized**
PLAYING A VITAL ROLE WITH LIMITED SUPPORT SERVICES

Electricity access situation

• From 1960-1980s running without electricity
• When they got the connection, reported 3-8 hours of outage/day
• Unable to meet energy demand despite spending almost USD3000/month on electricity and diesel purchase

Service delivery impacted

• **Critical hospital equipment**, such as suction machines, lab machines, baby warmers, ventilators, autoclaves, anaesthesia machines, blood banks **cannot operate during outages**
• **Safety concerns** of patients and staff
• Difficult to attract and **retain** staff
SOME HOPE FROM A CLEAN ENERGY SOURCE

10kWP system installed in December 2019 with the support from a Doctor

Source: Palamu hospital
NOW AT THE FRONTLINE OF THE PANDEMIC – SUPPORTED BY RELIABLE RESILIENT INFRASTRUCTURE

• COVID-19 treatment hospital
• Catering to needs of nearby 450 villages

Solar system powers
- ICU beds
- Ventilators meant for COVID patients
- Other critical needs to deal with the pandemic
ENERGY IS INTERCONNECTED WITH 125 OUT OF 169 (74%) SDG TARGETS

**Improved electricity access can catalyse socio-economic development**

**Sustainable Development Goals, Status of Electricity Access Report, 2017**
BUT ELECTRICITY ACCESS AT INSTITUTIONAL LEVEL IS NOT AVAILABLE OR UN-RELIABLE

LESS THAN 70% SUB-CENTERS IN 12 STATES ARE ELECTRIFIED – 24% OF ALL SUB-CENTERS

Source: HMIS - NHM
CHALLENGES REMAIN DESPITE DEMAND

- Technology and O&M issues
- Financing for social loads is lacking
- Policy not reflecting needs
- Data not available

A disconnected approach results in program and system failures
SOLUTION LIES IN DEVELOPING AN INTEGRATED APPROACH – CONNECTING THE DOTS

Developing sustainable technology solutions will require:

**Data**
- Local context including climate vulnerabilities
- Existing and future demand of the facility
- Potential sources of funding
- Vendors and types of technology

**Finance**
- Affordable financing options
- Mapping of financing solutions suited to need of facility
- Capacity to seek funding

**Policy**
- Local context differs across states
- Development programs do not consider energy needs and vice versa
- Frequent changes in policies
- Does not reach the end-user and capacity of end-user is limited
EXAMPLE OF INTEGRATION: DATA PLATFORM FOR HEALTH AND ELECTRICITY INDICATORS
COLLABORATE TO SUPPORT DEVELOPMENT WHILE PROMOTING LOW CARBON GROWTH

1. Identify the challenges and gaps
2. Estimate demand – unmet and under-met
3. Identify technology & financing options
4. Implement solutions and assess impact

Scaling up efforts - Feed into policy discussions

Policy makers
Funding agencies
Technology Providers
Think tanks
Government service providers
Development organizations
QUESTIONS AND ANSWERS

Pamli Deka

Pamlideka@wri.org
World Resources Institute, India