

Climate Change and Healthcare

Low Carbon Strategies

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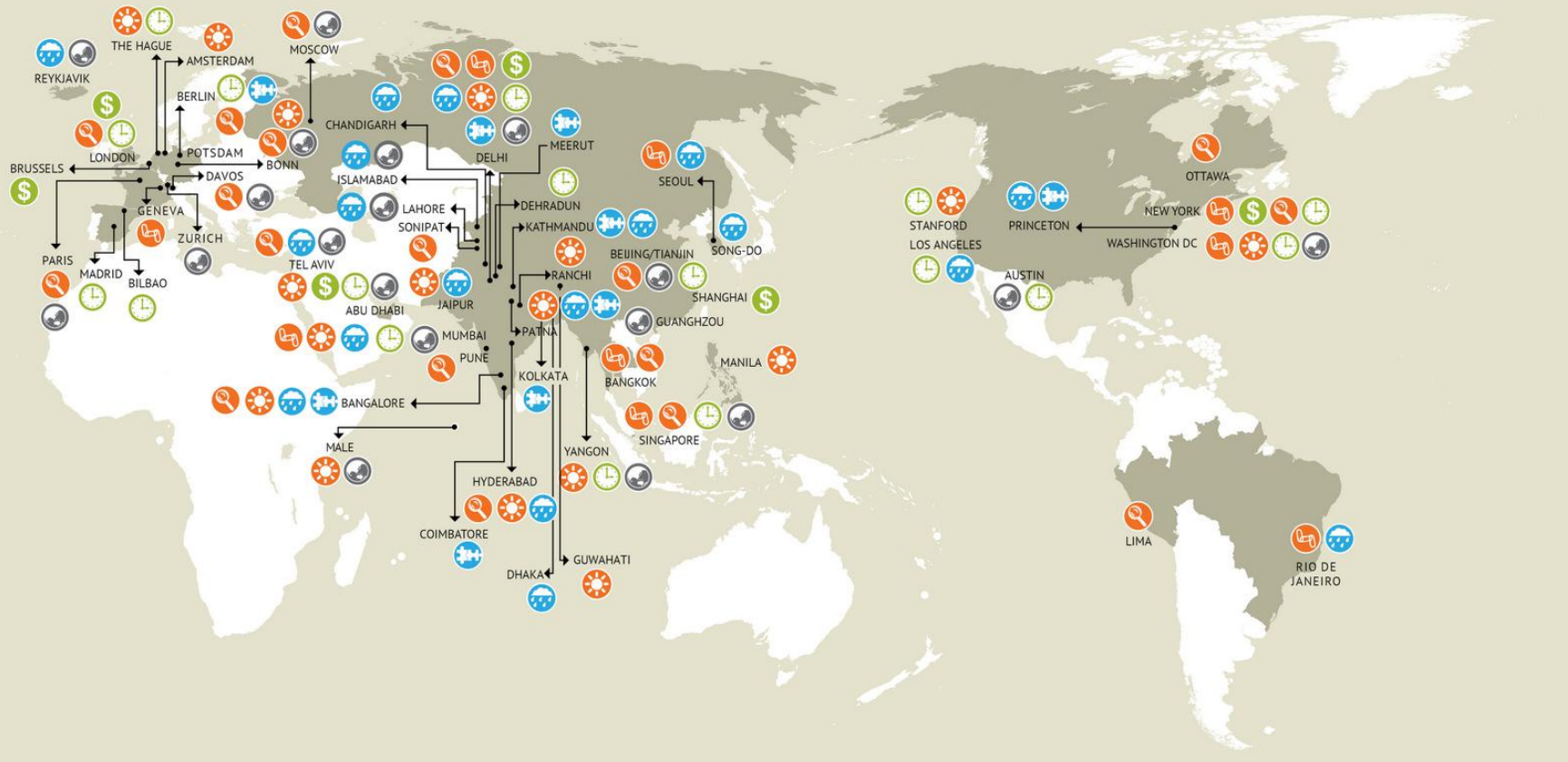
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The world map showcases places where CEEW has engaged in projects or presented its work. The icons represent thematic areas of CEEW's work, each of which is studied in depth while also focusing on its linkages with other development concerns.



- Resource efficiency & security
- Renewables
- Water
- Integrated energy, environment and water plans
- Energy-trade-climate linkages
- Sustainability finance
- Technology horizons
- International co-operation

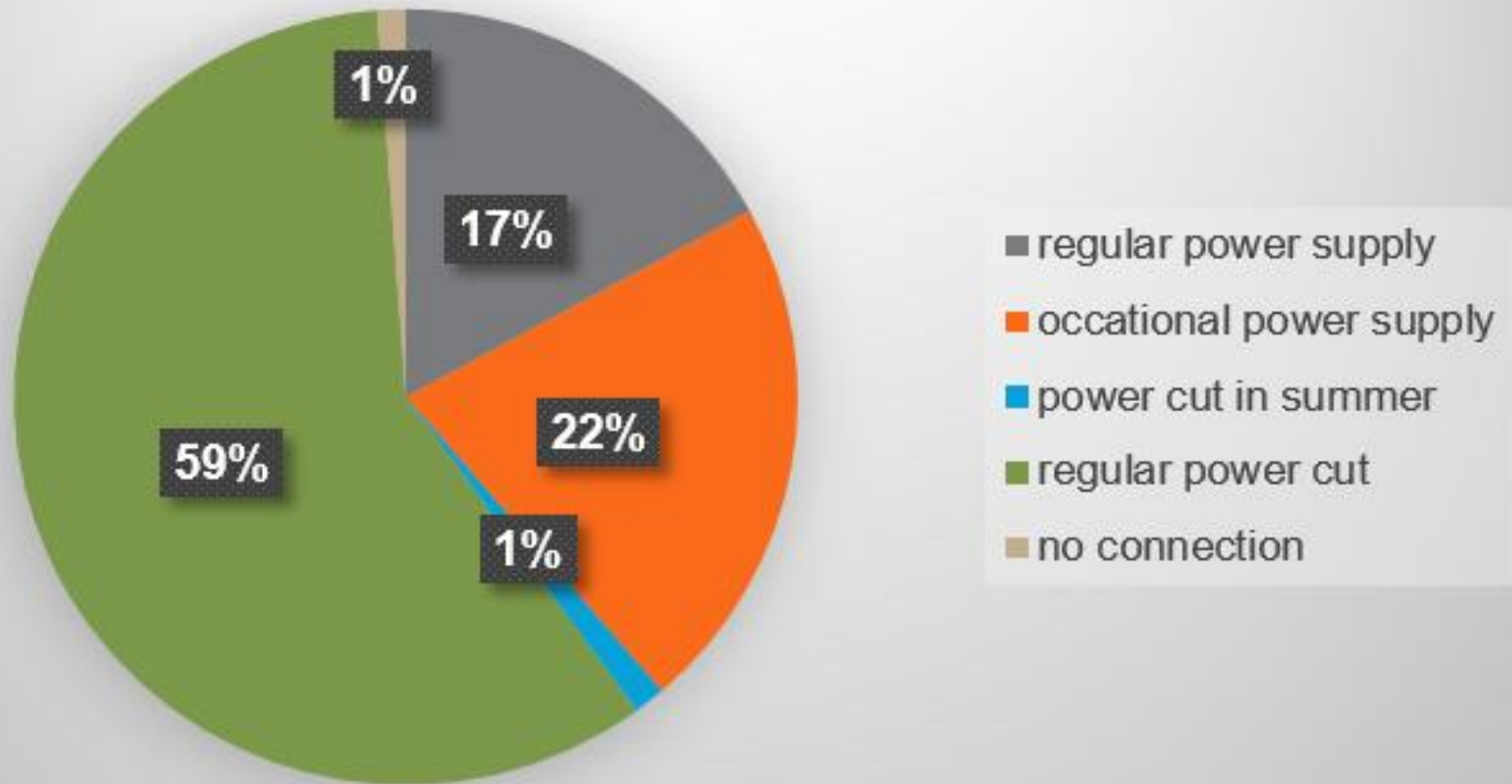
Health and Climate Change: Mitigation or Adaptation?

- Health – SDGs – Climate Change
- Climate impacts on healthcare
 - *Dynamic disease risk profile*
 - *Health system resilience*
- Low carbon strategy?
 - *Energy System Transformation*
 - *Health System Transformation*

Achieving Sustainable Healthcare

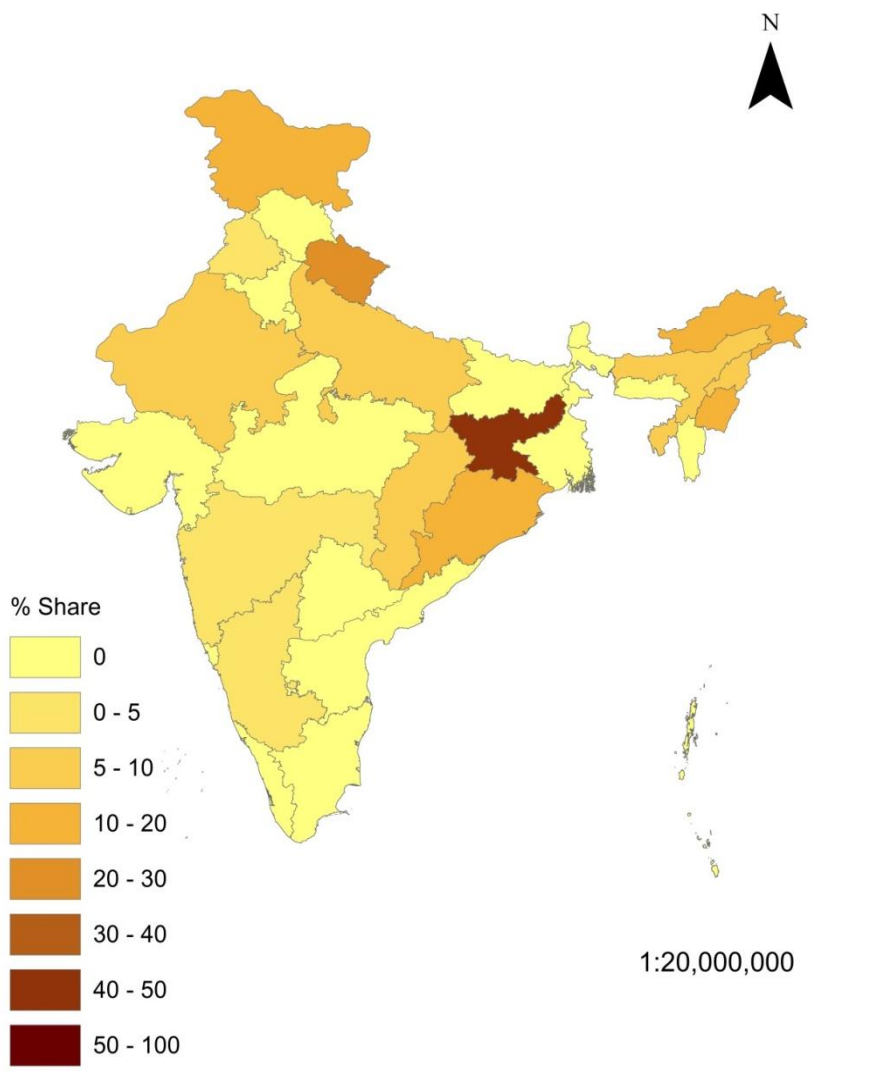
- Strengthening the primary health care system
 - *Delivering high quality care*
 - *Gradual increase in public health expenditure*
 - *Improvement in health outcomes*
 - *Cost reduction and efficient allocation of existing resources*

Is technology sufficient for resilience?



State of Electricity Access in Primary Health Centers in India

Share of Un-electrified Primary Health Centres across States



States	Share of PHCs without electricity
Jharkhand	42.5%
Uttarakhand	26.1%
Arunachal Pradesh	18.8%
Manipur	15.3%
Jammu & Kashmir	12.7%
Odisha	10.8%
Assam	8.9%
Chhattisgarh	8.8%
All India average	4.4%

Source: Rural Health Statistics 2015

Electricity Access for Primary Healthcare

- Health – primary goals for achieving basic HD
- 50% of all PHCs in India - **Un-electrified + Unreliable electricity**
- Need better understanding of energy needs of such facilities to design cost-effective and resilient solutions
 - **Better data: Need large-scale facility-level surveys**
 - **Proper impact evaluation of interventions**
- **Solar off-grid as a solution to augment the electricity gap:**

Potential of 2.3 GW

- 5-7 kWp solar system for a PHC

Initiative on Solar for Healthcare

- **MoU between Council on Energy, Environment and Water and Indian Council of Medical Research (ICMR), Government of India**

- **Improving access to healthcare through access to energy for community services**

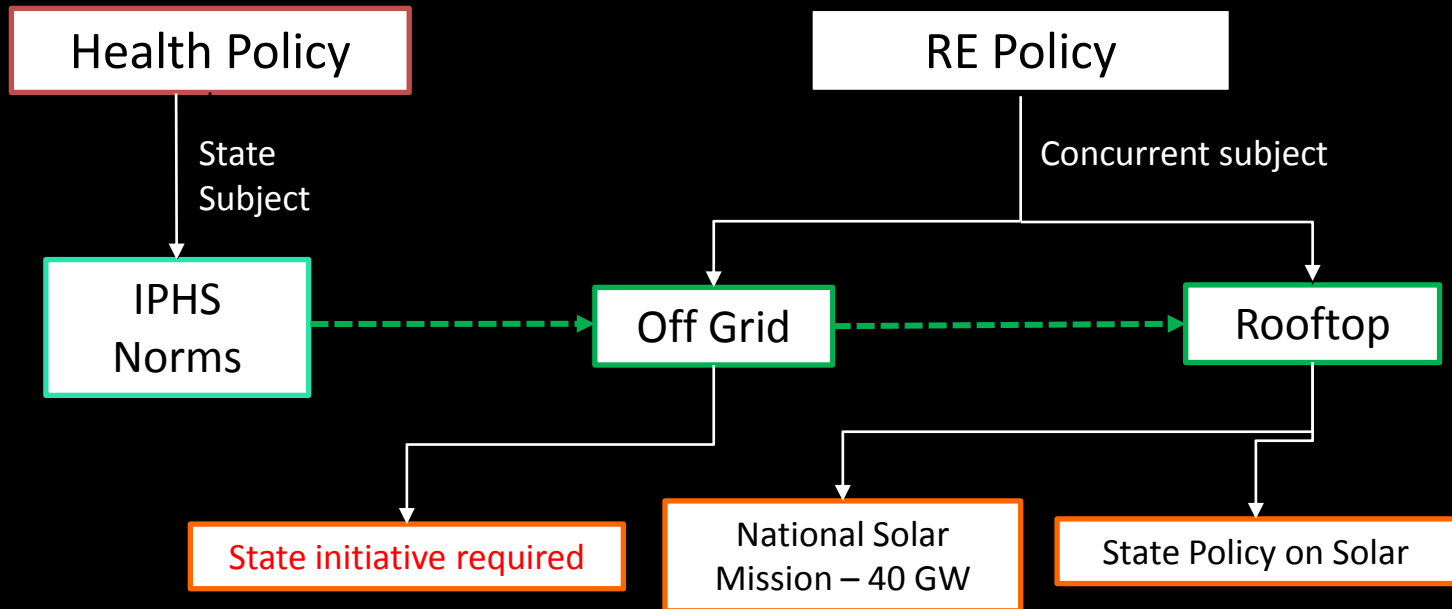
- **Policy Convergence – National Health Mission and National Solar Mission**
 - Increased likelihood of shorter ‘time to care’ with functional health facilities
 - Solar energy as a primary source of electricity rather than a back-up to the grid

- **Scaling the ‘Initiative for Solar in Healthcare’ (ISH)**



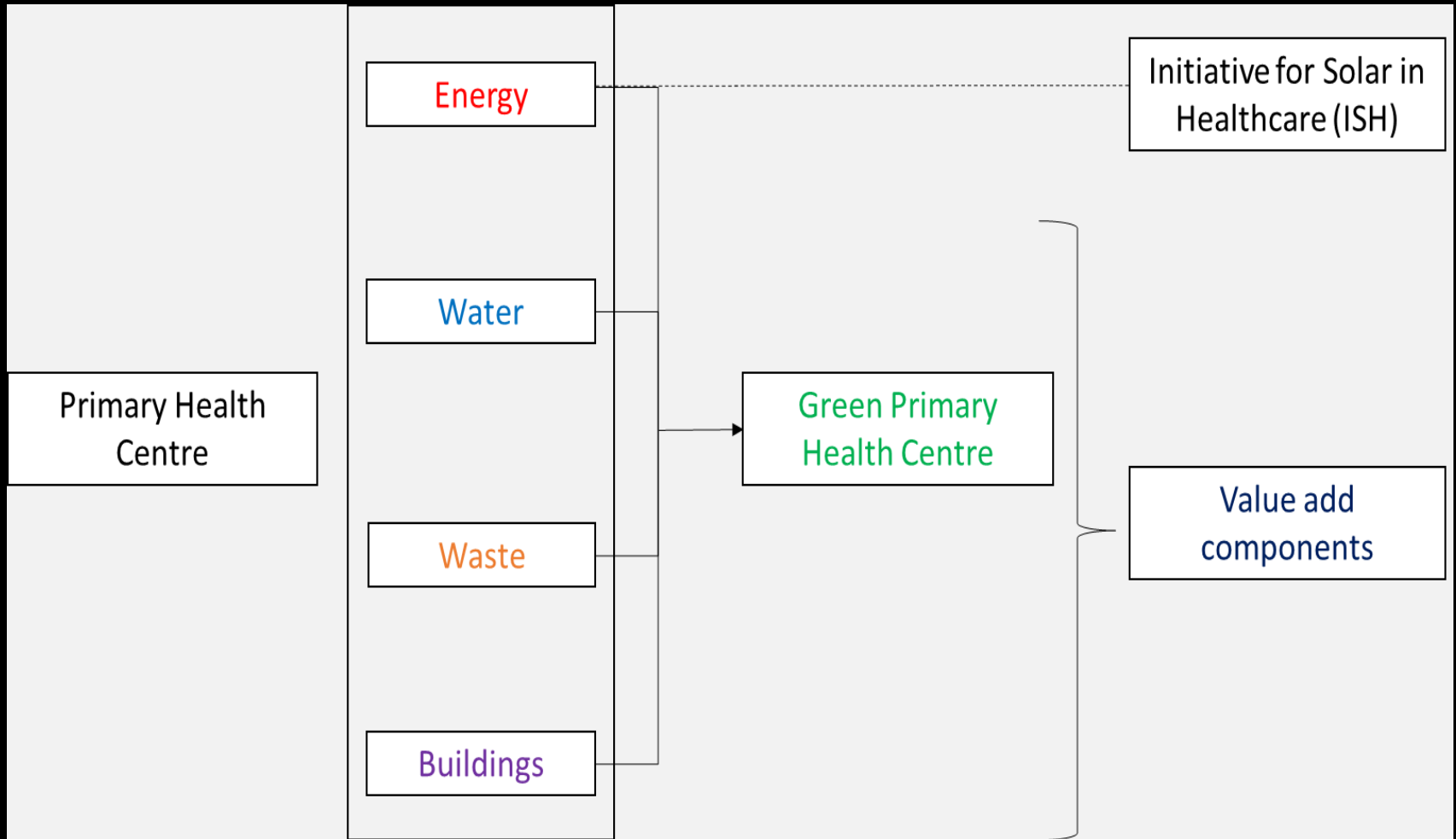
Signing of MoU between ICMR & CEEW

Recognising electricity access as critical infrastructure



- Awareness and Prioritisation
- Off-grid policy support
- Maximising utility of installations – Trade-off?
- Financing
- Coordination and integration – Institutions

Way forward: *Integrated planning*



Social Vaccine: A Paradigm Shift

- Health is not medicine
- Health System is not medicine care system
 - *Preventive + Curative*
- Health for all vs *health for those who can pay*
- Community as the core
- Appropriate technology as a driver

THANK YOU

<http://ceew.in/>