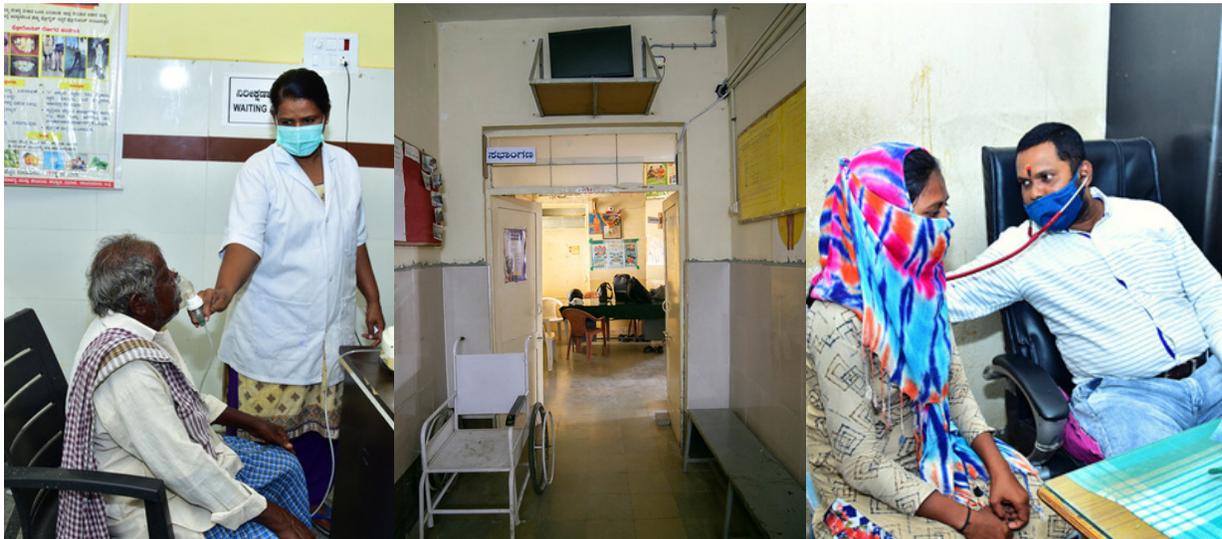


# DECENTRALIZED RENEWABLE ENERGY SOLUTIONS FOR LAST MILE HEALTHCARE DELIVERY



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# CONTEXT



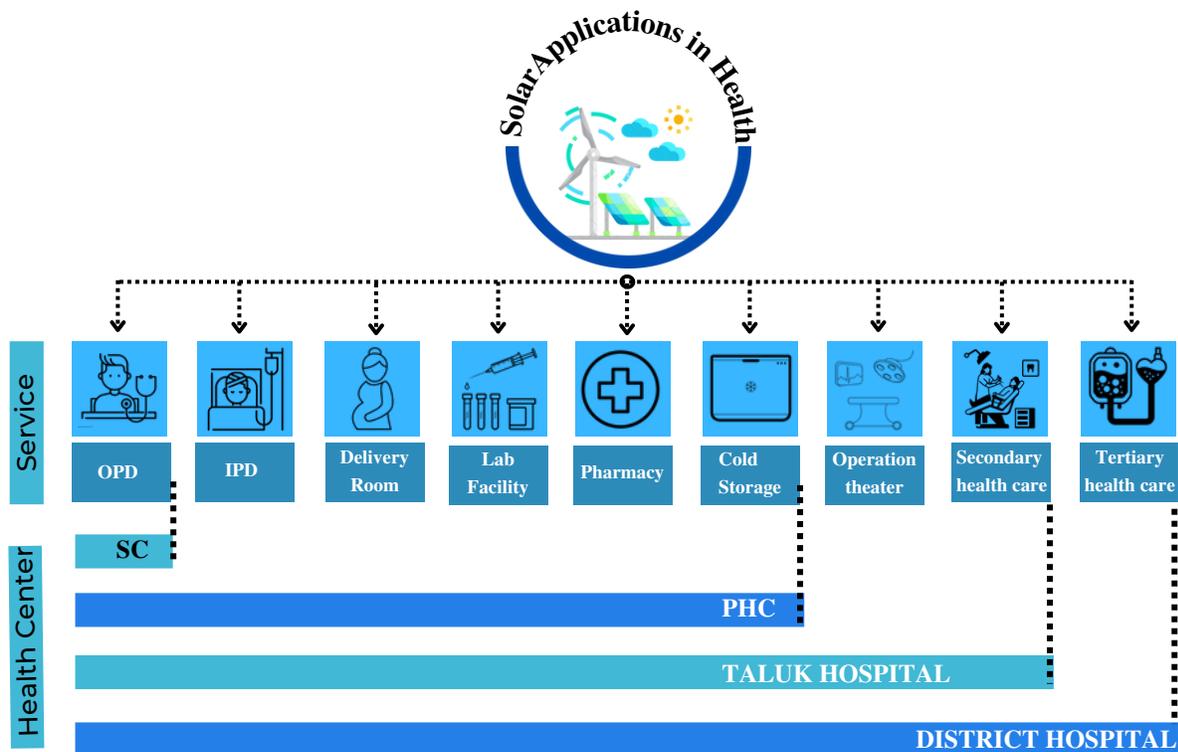
Healthcare is one of the most important factors that directly impact the quality of life and human development status of any economy. As per 2017 information, India faces a huge gap in terms of health infrastructure. With a world average of 2.9 hospital beds per 1000 population India stands just a little over 0.531 hospital beds per 1000 population. The Government of India announced the creation of 1,50,000 Health and Wellness Centres (HWCs) by transforming existing Sub Centres and Primary Health Centres as part of the 'Ayushman Bharat' initiative in February 2018. These centres by 2022 aim to deliver Comprehensive Primary Health Care (CPHC) to more than 135 crore people living across urban, rural and for other remote areas. One of the main critical infrastructure challenges in achieving the above goal is access to reliable and quality supply of electricity. As per the Rural Health Statistics (RHS) 2018-2019, 26.3 percent of the rural sub-centres and 4.8 percent of rural PHCs lack access to electricity supply and the ones which do receive few hours of supply experience voltage fluctuations and frequent interruptions. An immediate intervention is therefore needed to understand the existing systemic and energy infrastructural gaps/challenges and come up with sustainable, manageable and scalable solutions that can be implemented in the healthcare sector leading to efficient delivery of healthcare services.

# RENEWABLE ENERGY IN HEALTH VALUE CHAIN

The use of renewable energy like solar energy can be a critical enabler that can overcome the existing infrastructure gap of access to energy in the health sector.

Use of customized and decentralized solar energy powered solutions as per the energy needs and requirements of the health centers can play a critical role in strengthening the capacity of the health centers and healthcare workers leading to the improved quality of services that the health centers provide.

Customized solar power systems can be designed and implemented at all stages of the healthcare delivery chain starting from sub centers to district hospitals.



Mapping of solar energy application with the services provided in the healthcare chain



# ABOUT SELCO SOLAR LIGHT PRIVATE LIMITED

Established in 1995, SELCO is a social enterprise, with its headquarters in Bangalore, Karnataka, India. SELCO views access to basic sustainable energy as an underlying precondition to catalyze progress related to health, education, livelihood and rural infrastructure leading to the holistic development of communities. SELCO understands the root of the problem within the context and then assesses how access to energy can resolve it. .

## SELCO IN HEALTH

With this approach SELCO has worked extensively to understand the role that renewable energy can play in last mile health access. SELCO's interventions in the healthcare sector are aimed to overcome the existing energy barriers faced by the health centers thereby leading to the improvement in the delivery of health services provided in the centers and also build the capacity of the health centers to address critical situations.

In the past SELCO has partnered with several corporates, Government Departments, Zilla Panchayats, NGOs etc to plan, design and implement RE based programs in rural health centers.

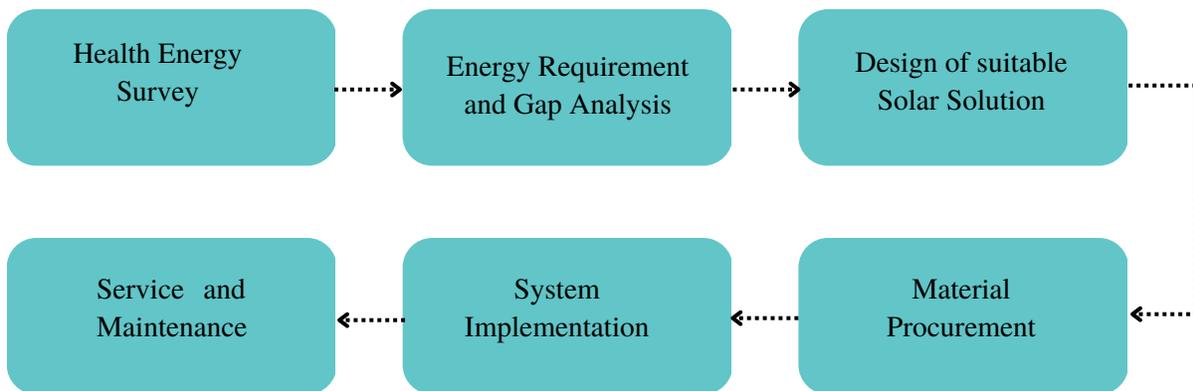
SELCO has facilitated decentralized energy to more than 200 health centres across Karnataka. In the drive towards sustainability and quality health services to the underserved, SELCO's mission is to deliver quality health service to the poor and expand it in the coming years



Solar system installed at a PHC in Ranjangaon, Maharashtra

# SELCO'S APPROACH FOR HEALTH PROJECTS

SELCO follows a comprehensive approach to provide solutions to health centers. The approach involves a detailed site survey to understand the needs of the health centers and design of suitable solutions which is then followed by implementation, service and maintenance making the entire solution sustainable.



Solar systems installed by SELCO at PHCs and solar powered delivery room in a PHC