Hospital energy storage cameroon

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Institutional subscriptions

Dr. Beat Stoll worked for many years in Cameroonian hospitals and is, among others, the Chief Medical Officer of the EssentialMed Foundation ().

See, e.g., for an introduction.

The specific solution was developed based on work by the "Distributed Electrical System Laboratory" (see).

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Policies and ethics

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Electricity is needed to power the most basic services in health-care facilities, from lighting and communications to clean water supply. Reliable power is also crucial for the medical equipment necessary to safely manage childbirth or to ensure immunization as well as for undertaking most of the routine and emergency procedures. Reliable energy provision – particularly electricity – is a major enabler of universal health coverage. A number of clean and cost-effective energy solutions, such as based on solar photovoltaic systems, are available and rapidly deployable to electrify health-care facilities sustainably and increase their climate resiliency.

Yet, as highlighted in the report Energizing health: accelerating electricity access in health-care facilities,close to 1 billion people in low- and lower-middle-income countries are estimated to be served by health-care facilities without reliable electricity access or with no electricity access at all. In low- and lower-middle-income countries of South Asia and sub-Saharan Africa, approximately 12% and 15% of health-care facilities, respectively, have no access to electricity whatsoever. There is a sharp urban–rural divide: urban health-care facilities often report more access to electricity and more reliable electricity than rural facilities in the same country.

Support, financing and investments need to be scaled up rapidly to accelerate health-care facility electrification. Other key actions include monitoring energy access in health-care facilities more systematically; providing the necessary resources to design and implement clean energy plans, tailored to the needs of the health sector; developing policy and finance schemes to unlock the potential of sustainable energy solutions, and to address the health sector needs.

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Based on 27 low- and lower-middle-income countries that have national survey data on electrification status of health-care facilities for any year between 2015 and 2022, the following representative findings are found:

Hospitals tend to fare better than non-hospitals, such as primary health centres, in access to any electricity supply or reliable electricity supply. There is also an urban–rural divide: urban health-care facilities often report more access to any electricity and more reliable electricity access than rural facilities in the same country.

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