Aga Khan Health Services

Afghanistan: Solar power for the Aga Khan Health Services healthcare facilities in Bamyan, Badakshan and Kabul provinces.

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Striving to reduce carbon emissions, the Aga Khan Health Service, Afghanistan (AKHS, A) committed to invest in solar power for its facilities in Bamyan, Badakhshan, and Kabul provinces.

Since 2022, a total of 123 out of 235 facilities in these provinces have transitioned to solar-power, accounting for around 48% of energy needs. These facilities include offices, sub-health centres and hospitals for which solar cover ranges from 2.5 KW to 100 KW installations. Together, these account for a total capacity of 774.9 KW, with 269.2 KW for Badakhshan facilities, 208.2 KW for Bamyan facilities, and 297.5 KW for Kabul facilities. All installations are equipped with batteries totaling a capacity of 1663.2 KWh to store solar power and ensure service continuity.

Previously, an estimated 302,000 litres of diesel were consumed annually across these facilities. With this initiative, it is expected to reduce operating costs by USD 276,000 per year and avoid emitting 815 tons of CO2e annually.

Carbon emissions were calculated using the AKDN carbon management tool.



Installation of solar panels at AKHS, A facilities.

This was achieved with the generous support of UNDP.