

WHO GUIDANCE FOR **CLIMATE-RESILIENT AND ENVIRONMENTALLY SUSTAINABLE** HEALTH CARE FACILITIES

Indicates either low performance, or unavailable activity, or unable to complete.

Indicates either medium performance, or activity in progress, or incomplete.

Indicates either high performance, or completed activity, or achieved and tested.

The complete WHO guidance for climate resilient and environmentally sustainable health care facilities, along with other intervention tables, are available in English, French and Spanish on the WHO website at who.int/publications/i/item/9789240012226.

Energy interventions – climate resilience

Interventions on climate resilience

Monitoring and assessment: Information regarding energy services should consider climate resilience and environmental sustainability for promoting action.

Energy – climate resilience

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Interventions (level of achievement)	Action level	Observations
Low: unavailable, unable Medium: in progress, incomplete High: completed, achieved		
Assessed energy needs, availability and alternative sources of renewable energy		
Assessed points of greatest heat loss in buildings (such as roofs, especially flat ones) and added or upgraded insulation, and draught proofing*		
Periodically checked emergency backup generators, even if rarely used		
Renewable energy (such as solar) is sufficient to power equipment like refrigerators		
Assessed all heating, ventilation and air conditioning ductwork pipes, ensuring they are in good condition and supported adequately by the facility building structure		
Assessed that location of energy backup or renewable energy infrastructure can withstand extreme weather events (such as strong winds, hail, floods)		



Emergency backup covers at least all critical service areas and equipment				
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Risk management: Strengthened capacity of health care facilities to manage energy related risks to workers, patients and served communities, by including assessments of climate resilience and environmental sustainability in responding to hazards and identifying and reducing exposures and vulnerabilities.

Energy – climate resilience

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Interventions (level of achievement)	Action level		vel	Observations
Low: unavailable, unable Medium: in progress, incomplete High: completed, achieved				
Plan developed for managing intermittent energy supplies or system failure*				
Established maintenance plan to fix easily preventable energy problems				
Mechanisms in place to filter indoor and ambient air pollutants				
Combined heat and power systems in place to obtain energy efficiency				
Energy systems can cope with most extreme weather events*				
Voltage stabilizers are available to protect equipment from electrical damage that may be caused by voltage frequency fluctuations (when using a generator), or voltage surges (such as due to power transmission problems in the grid)				



Health and safety regulation: Regulations on energy use and access are implemented taking into consideration climate variability and change, and environmental sustainability.

Energy – climate resilience

Interventions (level of achievement)	Action level		vel	Observations
Low: unavailable, unable Medium: in progress, incomplete High: completed, achieved				
Updated building insulation and windows to comply with energy codes				
Emergency electricity generators available to provide required electrical power if the municipal grid, or if the internal normal electrical system fails*				
Critical back-up power supplies available for building infrastructure (such as electrical power, heating and cooling)*				
Solar water heaters available for health care facility's hot water needs				
Backup energy equipment sufficiently elevated in areas prone to floods and anchored in areas prone to strong winds				
Adequate backup energy source is available if the main source fails during an extreme weather event				
Adequate lighting, communications, refrigeration and sterilization equipment are available during climate related disasters or emergencies				

^{*} Actions that need the support of local or national governments, or of other sectors