

# Experiences with climate-resilient & environmentally sustainable health care facilities

What are some challenges/  
barriers you have faced (or  
would face) when building  
CRESHCFs?

How to overcome these barriers?

What are potential interventions to improve the climate  
resilience and/or environmental sustainability of health  
care facilities in your country / in your context?

Take a post-it  
and start  
writing

Disinterest of  
local-level  
authorities'  
involvement

**Old habits  
die hard**

Lack of  
coordination

some  
challenges:  
lack of health  
workers in the  
health  
facilities,

**Budget**

Lack of  
ownership of  
the issue (Is  
this my  
problem?)

Perceived  
costs & "lack  
of resources"  
for e.g. initial  
investments

knowledge  
gap of both  
facility and  
community  
health care  
workers

No  
contingency  
plan

**No back  
up plans**

**capacity  
building**

Availability of  
funding for  
emergency

advocacy and  
education at  
all levels of  
the  
organization

**Capacity  
building  
to the  
workforce**

More of  
awareness  
and advocacy  
is required

private-public  
collaboration

Improvement  
of action of  
coordination  
between  
stakeholder

develop  
investment  
cases and  
show RoI

Engagement  
of stakeholder

development and/or  
improvement of  
policies governing  
climate change and  
health

Incentivize (even  
simple gestures) the  
work towards  
climate-resilience  
and sustainability

**government  
appropriation,  
community  
lead**

Make more  
easy to access  
to the  
financing

review Health  
- National  
Adaptation  
Plan

Considering  
conservation  
of biodiversity

# Experiences with climate-resilient & environmentally sustainable health care facilities

What are some challenges/ barriers you have faced (or would face) when building CRESHCFs?

How to overcome these barriers?

What are potential interventions to improve the climate resilience and/or environmental sustainability of health care facilities in your country / in your context?

Take a post-it and start writing

After the assessment, prioritizing and finding directions for improvement and interventions

Lack of technical capacity or sensitization to climate impacts on health

Sustainable issues are main important to be considering SIDS country

Lack of understanding of Climate Change and Health impact by health workers

Lack of engagement and support from key stakeholders (problem not seen as urgent)

Lack of awareness and knowledge

Turnover in government staff

Regulatory Hurdles

Limitation of human resources

Carbon tunnel vision (not having into account the rest of the environmental impacts besides GGHH emissions)

Lack of implementation capacities

Baseline Data Mitigation and Resilient?

Lack of understanding on climate change and health impact

Leverage Indigenous knowledge

Building a perspective GHG ecosystem for health workers

Sustainable project implementation GEF most important

Policy and regulatory support

Developing an evidence-based toolbox, in order to prioritize the interventions at the healthcare facility level and according to the gaps identified and other factors

lack of commitment

Capacity building

Increased advocacy

Training of Health care workers

Need active involvement of all relevant stakeholders rather than reliance on health sector alone

Commitment of the Ministry of Health / Awareness

Provided list of green product

sustainable energy resources

Elevated Water Tanks powered by solar panels

Support the circular economy

Electrify everything

Emergency preparedness plans

Training in on monitoring and assessment

Collaboration with private sector in green energy

Education and empowerment

Maximise passive heating and cooling principles

Shifting towards more plant-based food procurement

Using clean energy systems (biogas, solar)

Energy Efficiency and Renewable Energy

Smart Grid Technology

solar powered water supply systems

Community driven planning

Focus and mainstreaming of the Planetary Health framework

Locally Green Technology

Initiated modeling promoting provision of safe water supply at healthcare facilities

Waste Management and sustainable procurement

Solar Panel implementation at Skill lab and simulation Centre

Continued government investment in fossil fuels

Health Care : Hospital, Primary Health Care, Farmacies, Lab, etc ( to many)

Finding the starting point

Project management and procurement trainings

Better articulation of the return on investment for taking action

Access to Funding eg. GCF, AF much easier, to much obstacle (difficult to access)

Implementing CRESHCFs with integration idea

Perhaps branding could help to MOTIVATE - certificate = tool + advantage when applying for public funds

By conducting consultation meetings among stakeholders for developing strategic directions and priority areas.



# Experiences with climate-resilient & environmentally sustainable health care facilities

What are some challenges/  
barriers you have faced (or  
would face) when building  
CRESHCFs?

How to overcome these barriers?

What are potential interventions to improve the climate  
resilience and/or environmental sustainability of health  
care facilities in your country / in your context?

Take a post-it  
and start  
writing

Absence of  
the CRESH  
guideline at  
the national  
level context

**Not having accurate  
baseline program  
coverage data and  
disease prevalence  
data for the  
population**

in Spain it is still a  
long way off. at the  
moment they are only  
interested in the  
decarbonization part,  
without working on  
common objectives  
for all the health  
systems in Spain

Lack of access to  
good quality data on  
health care facilities,  
locations, services  
provided, condition  
and accessibility

**Advocate  
development of the  
CRESH guideline to  
inform  
implementation of  
various  
interventions**

**lack of  
financial  
resources for  
research or  
changes**

Understating the  
climate change  
affect on the health  
and preparedness  
required for the  
health facility.  
Subsequently  
needed policy  
formulation.

**Aging  
Infrastructure:** Many  
HCFs operate in old  
buildings that are  
not designed to  
withstand extreme  
weather events or  
temperature  
fluctuations

Some countries  
reporting operational  
health facilities but on  
the ground there is no  
water / electricity /  
staff / services. How  
do you then assess  
district wide or  
nationally?

Continuously  
informing and  
raising awareness  
about the  
importance of the  
issue

In Galicia we are  
starting with  
training for all  
professionals, the  
Galician Health  
Service's own  
circular economy  
strategy has been  
approved

we are now working  
on a collaboration  
agreement with the  
environmental part  
of the Galician  
government; in  
Spain it is still a long  
way off.

**Strengthening the  
HIS, linking with  
Early Warning  
Systems to trigger  
anticipatory action /  
prepositioning  
when thresholds are  
crossed.**

**financing is a  
problem - we  
depend on  
European  
projects and it  
is not easy**

How to fit this in  
with assessment of  
the rest of the 10  
building blocks of  
health systems.  
Donors and MoH's  
don't understand  
the volume of work.

Donors want V&As  
to address all 10  
building blocks.  
WHO HF guide has  
60 pages of tables.  
Donors give  
insufficient budget  
and time.

**Prioritise. Ask donor  
and MoH to  
prioritise. V&A  
recommendation  
can be to fund more  
HCF assessments.**

Implementing  
upgrades such as  
improved insulation,  
storm-resistant  
windows, and  
flood-proofing can  
enhance the  
resilience of existing  
buildings

**Training the  
health  
workforce in  
climate-health  
nexus.**

**Multi sectoral  
engagement to  
address 4  
components of the  
guideline e.g. MoH,  
Energy & water  
authorities, health  
commodities  
producers etc**

**Conduct public  
awareness campaigns  
to educate the  
community on the  
importance of climate  
resilience and how  
they can support  
sustainable practices  
at local HCF**

**Lack of Expertise:**  
There is often a  
shortage of  
knowledge and  
expertise on climate  
resilience within the  
healthcare sector .

**Managers'  
lack of  
sufficient  
knowledge  
and interest to  
the topic**

**Developing  
continuity of  
health  
services plans.**

# Experiences with climate-resilient & environmentally sustainable health care facilities

Challenges/barriers you have faced (or would face) when building CRESHCFs?

Take a post-it and start writing

**Lack of awareness**

Facility level awareness of risks and prioritization of resilience actions. The agenda is of course dominated by core medical deliveries

**Lack of Institutional capacity**

**Lack of funding**

Lack of clear understanding on what climate change is

Other Stakeholders not being aware of CRESHCF

**pressure on health work force**

**No budget for CRESHCF**

Fragile & conflict-affected context makes it difficult to focus on making health care facilities climate change resilient/environmentally sustainable

lack of concrete support of national or local authorities concerning this topic

**Lack of support from government agencies including local government in terms of improving health system scenario**

**difficulty to access localised climate risks data**

How to overcome these barriers?

**National action plans with good follow-up and reporting requirements**

**Good political will/buy in of the intervention**

**Ensuring that there is Alignment to National Policies and Plans on CC**

Advocate for CRESHCF with the senior government official responsible for issuing the regulation

**gather case studies & best practices to show what is possible and how**

**Awareness creation, capacity building**

**Involvement of policy makers and other top officials**

**Drafting of Policies for CCH**

Build awareness of co-benefits, for example well being from use of nature based solutions

**Stakeholder engagement**

**Research - literature, publishing evidence**

Interventions to improve the climate resilience and/or environmental sustainability of health care facilities:



# Experiences with climate-resilient & environmentally sustainable health care facilities

What are some challenges/ barriers you have faced (or would face) when building CRESHCFs?

How to overcome these barriers?

What are potential interventions to improve the climate resilience and/or environmental sustainability of health care facilities in your country / in your context?

Take a post-it and start writing

**Translating the check list in to national language is very important to understand very well**

**Capacity building training for national experts are very important and create ownership in undertaking the assessment**

**Having V&A assessment is the background work to facilitate the HCFs assessment**

**Critical challenge is funding and the assessment require funding**

# Experiences with climate-resilient & environmentally sustainable health care facilities

Challenges/barriers you have faced (or would face) when building CRESHCFs?

Take a post-it and start writing

**flood  
submerge  
health  
facilities**

Dilapidated/Deteriorating facilities

**HCFs have not  
prioritized  
climate  
resilience**

Lack of knowledge of professionals in architecture and civil engineering professionals in charge of sanitary infrastructure construction about green buildings

**Data  
shortage**

Lack of knowledge of professionals in architecture and civil engineering professionals in charge of sanitary infrastructure construction about green buildings

**Limited  
number of  
trained staff to  
provide  
patient care.**

complexity of projects (number of stakeholders, implementation,...)

since data collection can be time consuming, which EXISTING data sources can be used or secondary data analysis on those to minimise primary data collection?

**Financial and  
knowledge  
gap**

**if govt, which  
budget  
centre/budget  
line would  
funds come  
from?**

Process of setting up a system can be resource intensive and expensive, some areas don't have the ability to capability to spend those funds and time on that system

How to overcome these barriers?

Collaboration of professionals & services across member states.

Investment in technological infrastructure that can support telehealth services.

**Utilization  
of mobile  
units.**

make access to funding by grassroots organisations easy to enable them involve in more awareness creation

more training and researches on the nexus climate change and health for decision makers and health practitioners...very strong anchoring of the topic at high level

ensure evaluation and evidence creation is a priority because so many 'interventions' are not evidence based

**support in  
project  
management,  
procurement,  
capacity  
building**

**health facility  
should use  
solar energy**

Interventions to improve the climate resilience and/or environmental sustainability of health care facilities

make sure resilience is part of new buildings as well as renovation - recent reports say that this so far isn't happening and design needs to look at future scenarios

**revise construction  
standards for health  
centers, taking  
climatic factors into  
account; mobilize  
more  
climate-related  
resources, such as  
the green fund**

create a basic construction and maintenance criteria for any new buildings so that buildings are clean and resilient from the outset

**fund hospitals  
to buy solar  
energy**