

Health and environment scorecard Sudan

Summary score: **30**

Exposure score: 39 Health score: 52 Policy score: 0

The scores represent simple averages.

[See methods and results for additional information.](#)

The scores are out of 100.

Extent of the problem

Health impact

Policies

Air pollution

View actions and interventions



4 x the WHO air quality guideline value for PM_{2.5}

WHO Guideline (annual mean): 5 µg/m³

Annual country mean: **21** µg/m³



34% Population without clean fuels and technology for cooking



36% Deaths from stroke and ischaemic heart disease caused by air pollution¹

¹ Air pollution causes many other diseases and adverse health outcomes, only stroke and ischaemic heart disease have been chosen for this scorecard.



Existence of legal standards for PM_{2.5}

N/A



Compliant with WHO Air Quality Guidelines

N/A



Existence of national policy on household energy

N/A

WASH

View actions and interventions



N/A

Population without safe drinking water²



N/A

Population without safe sanitation²

² Operationalised as using safely managed drinking water and sanitation services.



75%

Deaths from diarrhoea caused by unsafe drinking water, sanitation and inadequate personal hygiene

Sufficient funding for implementation of national plans

	Urban	Rural
Drinking water	<50% of what is needed	<50% of what is needed

	Urban	Rural
Sanitation	<50% of what is needed	<50% of what is needed

	Urban	Rural
WASH	Health care facilities <50% of what is needed	Schools <50% of what is needed

Climate change

View actions and interventions



77%

Fossil fuels and traditional use of biomass in total final energy consumption



Percentage of hot days³ in 2050 under a high emissions scenario⁴

N/A

³A 'hot day' is a day when maximum temperature exceeds the 90th percentile threshold for that time of year. The threshold is based on the period 1961-1990. Analysis by the Climatic Research Unit, University of East Anglia, 2018.



Heat deaths in 2050 compared to 1961-1990 period under a high emissions scenario⁴ in the 65+ age group

N/A

⁴ High emissions scenario RCP8.5 - Representative Concentration Pathway 8.5.

⁵ Existence of a recent national assessment and plan refers to having conducted a climate change and health vulnerability and adaptation assessment and/or a health national adaptation plan (HNAP) since January 2020.



Existence of recent national assessment and plan⁵

	N/A	N/A
Vulnerability and adaptation assessment		Health National Adaptation plan (HNAP)



Commitment to COP26 Health Programme

	Climate resilient health systems	Sustainable low carbon health systems	Net zero commitment
	no	no	no



Inclusion of health co-benefits in Nationally Determined Contribution (NDC)

no

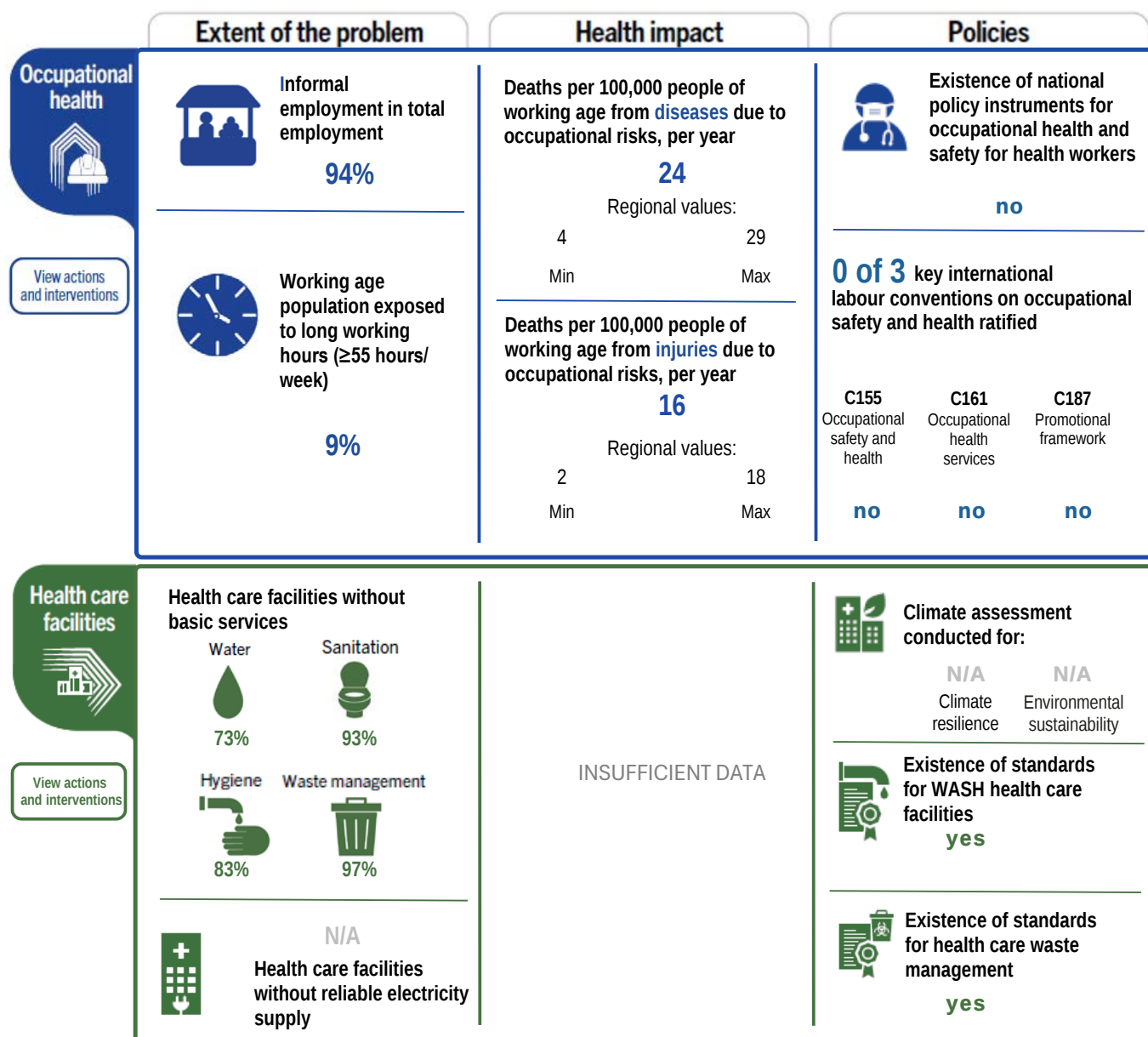
* Data not undergone country consultation/ not UN data. N/A: not available.

Sudan

	Extent of the problem	Health impact	Policies
Biodiversity  View actions and interventions	 Terrestrial and marine area protected 3 % Global target: Conserve 30% of land, waters and seas by 2030. Change in forest area 1990-2020  - 22 % Change in forest area (%)  -52 100 km² Change in forest area (km ²)	INSUFFICIENT DATA	 Post-COP15 National Biodiversity Strategy and Action Plan submitted no
Chemicals  View actions and interventions	 Mean blood lead level in children under 5 years* 7 µg/dL International Health Regulations (IHR) capacity score for chemical events⁶ 20 % (out of 100%) ⁶Key informants report on attainment of a set of attributes for chemical events (core capacity 14) using a standard WHO instrument.	Poisoning deaths in 100,000 children under five, per year: 2 Regional values: 0 Min 6 Max	 Existence of legal limit on lead paint no  Existence of a poison centre N/A  Party to the Minamata Convention on Mercury no
Radiation  View actions and interventions	International Health Regulations (IHR) capacity score for radiation emergencies⁷ 20 % (out of 100%) ⁷Key informants report on attainment of a set of attributes for radiation emergencies (core capacity 15) using a standard WHO instrument.	Deaths per 100,000 people from melanoma and other skin cancers, per year: 1 Number of deaths per 100,000 people from residential radon, per year:* <1	 Existence of standards on electromagnetic fields N/A  Existence of regulation of artificial tanning devices/sun beds N/A  Existence of national radon regulations for dwellings N/A

* Data not undergone country consultation/ not UN data. N/A: not available.

Sudan


Please access the reading guide [here](#)

References

Air pollution

- [WHO global air quality guidelines 2021](#)
- [WHO SDG Indicator 11.6.2, Concentrations of fine particulate matter \(PM2.5\); 2019 data](#)
- [WHO household air pollution data; 2022 data](#)
- [WHO Air pollution data portal; health impact data for 2019](#)
- [UNEP 2021: Regulating air quality: the first global assessment of air pollution legislation; 2020 data](#)
- [WHO Household energy policy repository; updated 2024.](#)

Water, sanitation and hygiene

- [WHO, UNICEF: Joint Monitoring Programme for Water Supply, Sanitation and Hygiene; 2022 data](#)
- [WHO water, sanitation and hygiene: burden of disease, 2019 data](#)
- [WHO GLAAS 2021/2022 cycle](#)

Climate change

- [IEA 2023: Share of modern renewables in total final energy consumption](#)
- [WHO Health and Climate Change Country Profiles](#)
- [Honda et al. 2014; projections for 2050](#)
- [Kendrovski et al. 2017; projections for 2050](#)
- [WHO Health and Climate Change Global Survey, 2021](#)
- [WHO: Alliance for Transformative Action on Climate and Health \(ATACH\): Country Commitments, 2024 update](#)
- [WHO 2023: 2023 WHO review of health in nationally determined contributions and long-term strategies: health at the heart of the Paris Agreement](#)
- [ATACH baselines, 2024 data](#)

Biodiversity:

- [World Bank Group, Terrestrial and marine protected areas, 2022 data](#)
- [World Population Review 2024: Deforestation rates by country](#)
- [FAO 2020: Global Forest Resources Assessment, 2020 data](#)
- [CBD Online Reporting Tool 2024, updated 31 December 2024](#)

Chemicals

- [IHME: Lead exposure estimates, 2023 data](#)
- [WHO: International Health Regulations core capacity scores, 2023 data](#)
- [WHO: Mortality rate attributed to unintentional poisonings; data for 2021](#)
- [WHO: Legally binding controls for lead paint, updated 2024](#)
- [WHO: World directory of poisons centres, updated 2024](#)
- [UNEP: Minamata Convention on Mercury, 2024 data.](#)

Radiation

- [WHO: International Health Regulations core capacity scores, 2023 data](#)
- [WHO: Deaths from melanoma and other skin cancers, 2021 data](#)
- [IHME: Deaths from residential radon, 2021 data](#)
- [WHO: Electromagnetic fields, updated 2018](#)
- [WHO: Sunbeds: Existence of national regulations, updated 2021](#)
- [WHO: Existence of national radon regulations, 2019 data.](#)

Occupational health

- [ILOSTAT: Statistics on the informal economy, updated 2024](#)
- [WHO: Disease burden from long working hours, 2016 data](#)
- [WHO/ILO: Joint estimates of the work-related burden of disease and injury, 2016 data](#)
- [Pega et al. 2023](#)
- [WHO: Occupational Burden of Disease Application](#)
- [WHO: Existence of national policy instruments for occupational health and safety for health workers, 2023 data](#)
- [ILO ratifications of: \[C155\]\(#\), \[I61\]\(#\) and \[C187\]\(#\), updated 2024.](#)

Health care facilities

- [WHO/UNICEF 2024: WASH in health care facilities 2023 data update: special focus on primary health care](#)
- [WHO: Database on electrification of health-care facilities, updated 2023](#)
- [WHO/UNICEF Country progress tracker, updated 2023.](#)

This scorecard is based on already published data (see references). It is a tool to measure and track the progress of Member States and is not intended for ranking. Update 2025.