

Data identification

Title	Longterm monthly average of global horizontal irradiation in January – Malawi
Date	2018-12
Date type	Publication
Abstract	Longterm monthly average of daily totals of global horizontal irradiation (GHI) in kWh/m ² , calculated for January and covering the years from 1994 to 2017
Purpose	Reference information for the assessment of flat-plate PV (photovoltaic) and solar heating technologies (e.g. hot water)
Unique resource identifier	a9066617-e8a0-bdd7-de77-02546967016a
Supplemental information	This data layer is an output from the solar resource mapping of Malawi by Solargis. It has been delivered for the Energy Sector Management Assistance Program (ESMAP), a global initiative in support of renewable energy resource mapping under a global initiative on Renewable Energy Resource Mapping, administered by The World Bank. The uncertainty of the solar resource data has been reduced by regional model adaptation based on ground measurements collected at three solar meteorological stations across Malawi, funded by The World Bank in years 2016 to 2018.
Keywords	Solar resource data, GHI, global horizontal irradiation, Long-term average, Solargis, World Bank, ESMAP, Malawi
Legal constraints	Copyright: Solar resource data © 2018 Solargis. The data is published under a Creative Commons Attribution license (CC BY 3.0 IGO)

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Role	Originator

Topic category	Climatology, meteorology, atmosphere
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Extent

Geographic bounding box

West bound	32.0
East bound	37.0
South bound	-18.0
North bound	-9.0

Spatial resolution

Units	arc-sec
Distance	9.0

Lineage

Statement	Solar radiation data from satellite-based model developed by Solargis company
Description	Solar radiation data is derived by Solargis algorithms (v2.1) from satellite digital images and atmospheric datasets: Meteosat PRIME and IODC by Eumetsat; GOES-East and GOES-West by NOAA; MTSAT and Himawari-8 by JMA; MACC-II/CAMS atmospheric data by ECMWF; MERRA-2 atmospheric data by NASA; GFS data by NOAA.

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