

Data identification

Title	Longterm yearly average of global horizontal irradiation - Tonga - Global Solar Atlas 2.0
Date	2019-10
Date type	Publication
Abstract	Longterm yearly average of global horizontal irradiation (GHI) in kWh/m2, covering the period 2007-2018
Purpose	Reference information for the assessment of flat-plate PV (photovoltaic) and solar heating technologies (e.g. hot water)
Unique resource identifier	86403f1e-7bf3-5253-6e2c-a1faf6b5ab9e
Supplemental information	This data layer represents an output from the Solargis global solar model. It has been delivered for the Global Solar Atlas (https://globalsolaratlas.info/), online platform funded by the Energy Sector Management Assistance Program (ESMAP), a multi-donor trust fund administered by The World Bank, under a global initiative on Renewable Energy Resource Mapping.
Keywords	Solar resource data, GHI, global horizontal irradiation, Long-term average, Solargis, World Bank, ESMAP, Global Solar Atlas
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1. Point of contact

Organisation name	THE WORLD BANK
Email	energydata@worldbankgroup.org
Website	www.esmap.org/RE_Mapping
Role	Owner

2. Point of contact

Organisation name	Solargis
Email	company@solargis.com
Website	solargis.com

Role	Originator
Topic category	Climatology, meteorology, atmosphere

Extent

Geographic bounding box

West bound	-177.0
East bound	-173.0
South bound	-23.0
North bound	-15.0

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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Organisation name	Solargis
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