

## Data identification

|                            |   |
|----------------------------|---|
| Title                      | Longterm monthly average of global horizontal irradiation in January – Maldives   |
| Date                       | 2018-10   |
| Date type                  | Publication   |
| Abstract                   | Longterm monthly average of daily totals of global horizontal irradiation (GHI) in kWh/m <sup>2</sup> , calculated for January and covering the years from 1999 to 2017   |
| Purpose                    | Reference information for the assessment of flat-plate PV (photovoltaic) and solar heating technologies (e.g. hot water)  |
| Unique resource identifier | ac1f64e0-0dda-6d64-cf41-3afd40c3f464  |
| Supplemental information   | This data layer is an output from the solar resource mapping of Maldives. It has been delivered by Solargis for the Energy Sector Management Assistance Program (ESMAP), a global initiative in support of renewable energy resource mapping together with Asia Sustainable and Alternative Energy Program (ASTAE), both administered by The World Bank, under a global initiative on Renewable Energy Resource Mapping. The uncertainty of the solar resource data has been reduced by regional model adaptation based on ground measurements collected at four solar meteorological stations across Maldives, funded by The World Bank in years 2015 to 2018. |
| Keywords                   | Solar resource data, GHI, global horizontal irradiation, Long-term average, Solargis, World Bank, ESMAP, Maldives   |
| Legal constraints          | Copyright: Solar resource data © 2018 Solargis. The data is published under a Creative Commons Attribution license (CC BY 3.0 IGO)  |

## 1. Point of contact

|                   |  |
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## 2. Point of contact

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| Role              | Originator                                     |

|                |                                      |
|----------------|--------------------------------------|
| Topic category | Climatology, meteorology, atmosphere |
|----------------|--------------------------------------|

## Extent

### Geographic bounding box

|             |      |
|-------------|------|
| West bound  | 72.0 |
| East bound  | 74.0 |
| South bound | -1.0 |
| North bound | 8.0  |

### 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. |

|                   |                                      |
|-------------------|--------------------------------------|
| File identifier   | edcec13e-1efe-9a3f-f1d4-1abddf744d31 |
| Metadata language | eng                                  |
| Character set     | UTF8                                 |

### Metadata author

|                   |                     |
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| Organisation name | Solargis            |
| Role              | Originator          |
| Date stamp        | 2018-10-04T13:34:18 |