

TWIGA-Service:

# Short Range Solar Radiation Forecast



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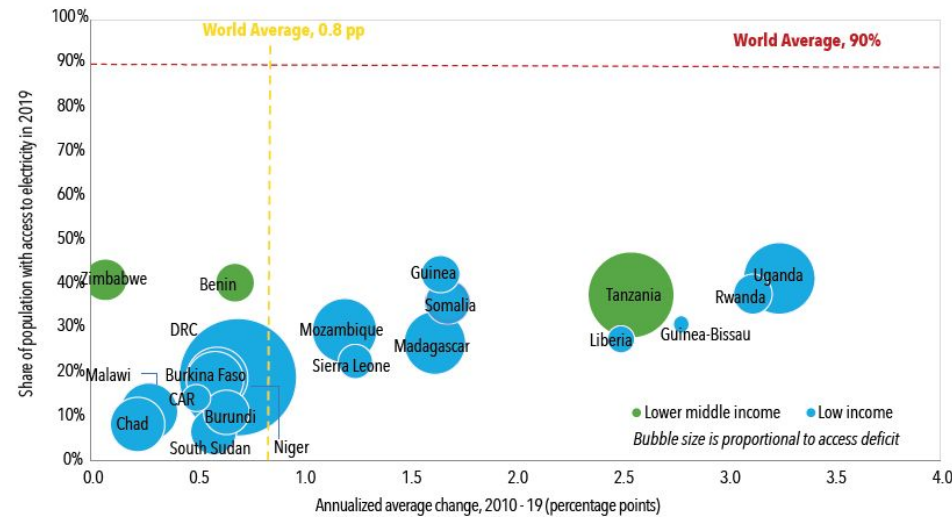
TWIGA Project –Solar Radiation Product

# The problem

Only 20 to 30% of Sub-Saharan Africa have access to electricity from the grid.

The provision of a short range (3 days) solar radiation forecast to assess the solar power generation potential over a region and specific point.

FIGURE 1.19 • Electricity access in the 20 least-electrified countries, 2010–19



Source: World Bank 2021.



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# Our solution

Short-term prediction for the amount of solar radiation reaching the surface, by extrapolating cloud movements and daily cloud formation patterns.

With the purpose of allowing solar power operators to determine the efficiency of power generation for a period of 1-3 days in advance.

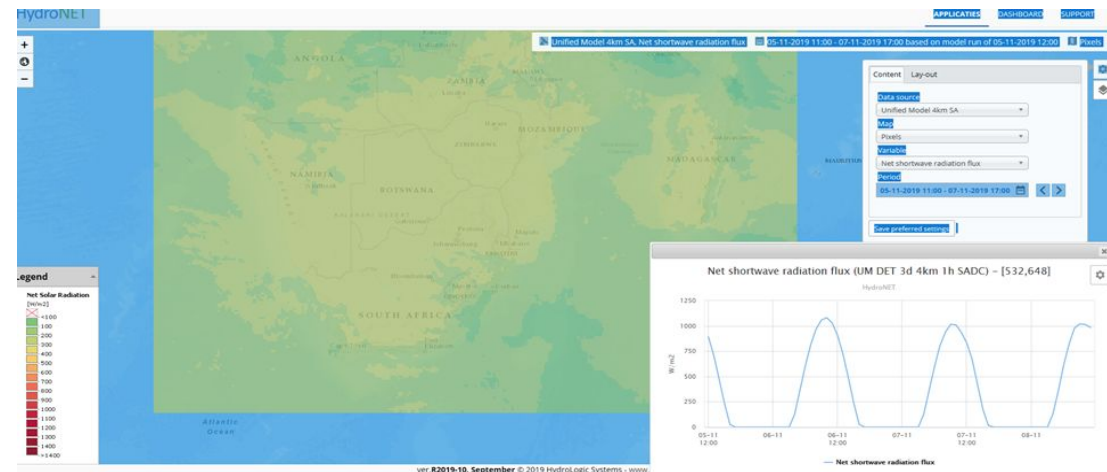
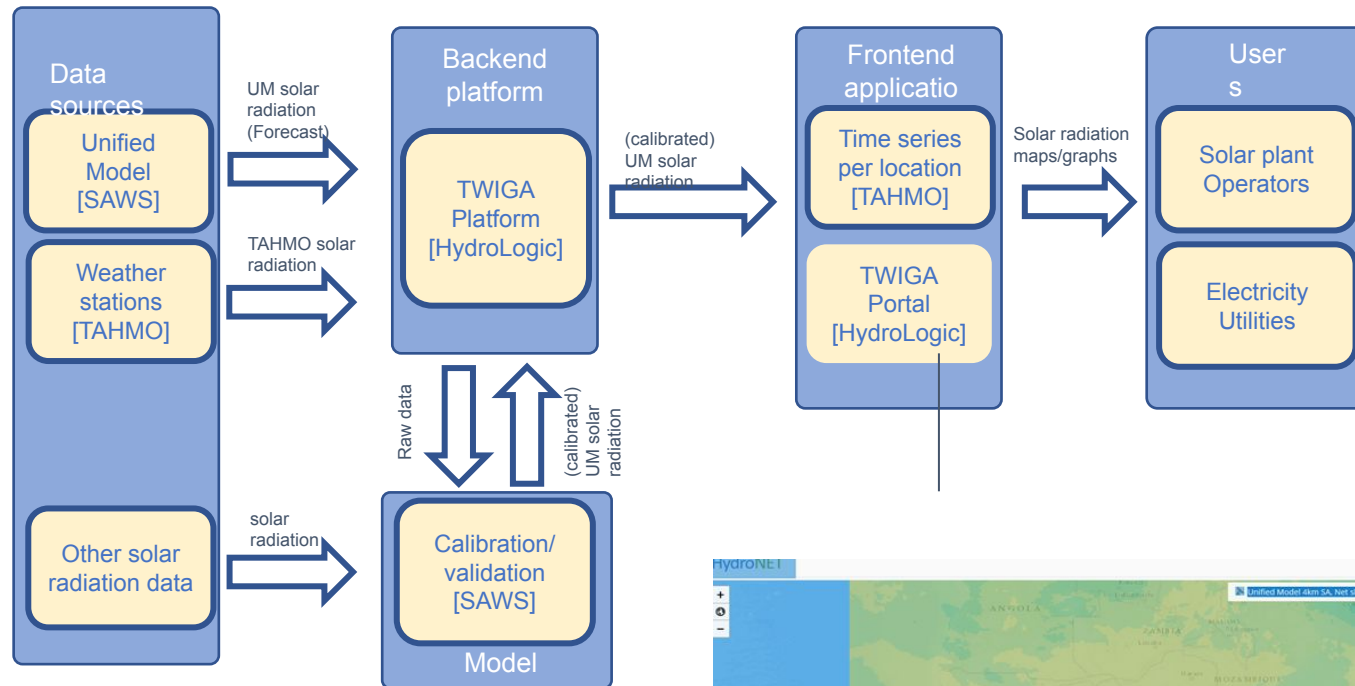
The product delivers 2x functionalities:

**Mapping Part** : Depicts a prognostic map of the solar radiation (forecasts) –Gives areal extent.

**Analytical Part**: Graphical display of the solar radiation variation over 3 x days.



# How it works?



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