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Accounting for low solar resource days to size 100% solar microgrids power systems in Africa

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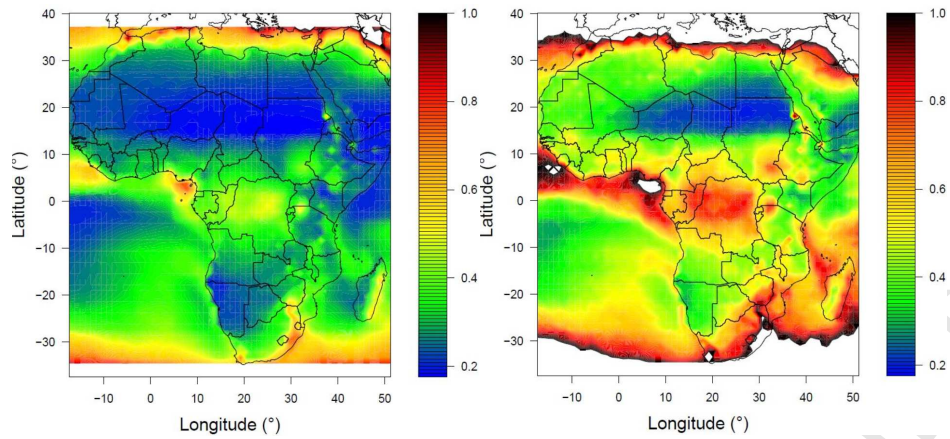


Figure 1 : peak power of solar PV panels (in kWp) needed to achieve a 95% (left) (resp. 99% (right)) quality service level for a 1 kWh daily demand in a 100% solar microgrid power system. Estimates are derived from the 5th and 1th percentiles of daily Global Horizontal Irradiation data obtained from SARAH satellite data for the period 1995-2015.

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