Quito solar energy

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This manuscript is based on the master"s thesis by Leonard Ramos, conceptualized and supervised by Mariela Tapia. We thank the High-Performance Computing Team from the University of Oldenburg for their computing facilities. The first author dedicates this work in memory of Prof. Dr. Stefan G?ssling-Reisemann.

Author contributions: Mariela Tapia: Conceptualization, methodology, formal analysis, writing - original draft, writing - review and editing. Leonard Ramos: Methodology, software, visualization, formal analysis, validation, writing - original draft. Detlev Heinemann: writing - review and editing. Edwin Zondervan: Writing - review and editing.

Overview of main parameters for the economic assessment of rooftop PV systems used in recent studies regarding PV assessment in different regions of Ecuador.

aThis value was not considered for the selection because according to ref. [10] it represents an hypothetical scenario,bthis value was not considered for the selection because the calculations uses prices of flexible PV modules [42], which are more expensive compared to the modules used in our study.

Comparison of the estimated annual energy yield under the base case assumptions and electricity consumption in urban and rural parishes of Quito disaggregated by consumption groups (residential, commercial, industrial and others).

Comparison of the estimated annual energy yield under the base case assumptions and electricity consumption in urban and rural parishes of Guayaquil disaggregated by consumption groups (residential, commercial, industrial and others).

Comparison of the estimated annual energy yield under the base case assumptions and electricity consumption in urban and rural parishes of Cuenca disaggregated by consumption groups (residential, commercial, industrial and others).

Comparison of the estimated annual energy yield under the base case assumptions and electricity consumption in parishes of the Galapagos Islands disaggregated by consumption groups (residential, commercial, industrial and others).

Long-term hourly averages of solar irradiance components from 1998 to 2018 in Quito. Data retrieved from the NSRDB.

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