

Technical-economic analysis for the integration of PV systems in Brazil considering policy and regulatory issues

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Abstract-

The increasing integration of distributed PV system costs. Consequently, the Net Metering scheme is being adopted in several countries, such as Brazil, where it has is in force since 2012. In this context, this paper aims to estimate the minimum monthly residential demand for prosumers located in the different distribution concession areas in the interconnected Brazilian system that ensures the distributed generation (DG) in residential buildings is also estimated. This study was conducted for the entire Brazilian interconnected system and it demonstrates that the integration of distributed PV systems is technical-economic feasible in several regions of the country reinforcing the role of the distributed solar energy in the diversification of Brazilian electricity matrix.

Index Terms- PV systems; Brazil; Net metering; Distributed generation; Economic analysis; PV systems penetration

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