

# **On the regulation of solar distributed generation in Brazil: a look at both sides**

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## **Abstract-**

**In the last few years, a considerable growth of rooftop&nbsp;Distributed Generation&nbsp;(DG) regulation in Brazil are the cross-subsidy for consumers to prosumers (i) since non-PV owners subsidize network costs that prosumers avoid paying, and the &ldquo;death spiral&rdquo; (ii) in which a DisCo lost a considerable share of the market continuously. To overcome these issues, the Brazilian government approved Law 14300, which includes a new compensation scheme for energy injected into the grid. In this way, the main objective of this paper is to conduct a technical-economic analysis of photovoltaic systems with this new structure by considering the impact on both sides: new investors in DG and DisCos. The analysis is compared against the previous regulation and the results proved a detriment to&nbsp;**

**Index Terms- Distributed generation; Electricity tariffs; Net-metering; Photovoltaic systems; Regulation**

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