

planning methodology is applied to 2,269 isolated communities in Venezuela that still lack electricity. The methods and conclusions of this work are intended to be a contribution to the improvement of rural electrification programs with renewable energy in other countries of the developing world. 1. Introduction

microgrid topologies, this strategy allows the energy supply to be independent from the resources available at demand points, cost savings thanks to economies of scale for shared equipment and supply flexibility in case of an increase in demand [21].

In this sense, they are a suitable alternative for the electrification of almost inaccessible rural communities in developing countries, by means of isolated systems and/or ...

In this work, a sustainability evaluation is carried out on hybrid wind-PV-diesel-battery microgrids implemented in north-western Venezuela. The projects are part of a government strategy to promote electricity access in isolated poor regions using renewable energy, under the program "Sowing Light".

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A Review of Microgrids in Latin America - Test Systems Country Proyecto Generation and storage ... PV W BESS DG H Bolivia Saqa"saqa X X Isolated 2008 25 people Venezuela Jacuque X X X X Isolated 2009 10 families Per#250; El Regalado X X Isolated 2009 175 people Per#250; Alto Per#250; X X X Isolated 2009 65 users Ecuador San Jos#233; del Coca X X X X ...

In this paper, 13 microgrid projects in north-western Venezuela are presented and their environmental, technical, socioeconomic and institutional dimensions of sustainability are evaluated. For this purpose, an evaluation

Its versatility to operate in grid-connected or isolated mode allows adapting the microgrid concept to several urban and rural applications. This has motivated industry and academia to develop experimental projects, prototypes, and application pilots worldwide.

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In this study, we investigate the benefits and drawbacks of using Monte Carlo techniques to cope with uncertainties involved in the optimal design and operation of hybrid microgrids, proposing new sizing criteria and highlighting best practices.

In this sense, they are a suitable alternative for the electrification of almost inaccessible rural communities in developing countries, by means of isolated systems and/or microgrids, using wind and solar technologies.

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