

## Accepted Manuscript

Practical recursive algorithms and flexible open-source applications for planning of smart distribution networks with Demand Response

E.A. Martínez Ceseña, P. Mancarella

PII: S2352-4677(16)30031-5

DOI: <http://dx.doi.org/10.1016/j.segan.2016.06.004>

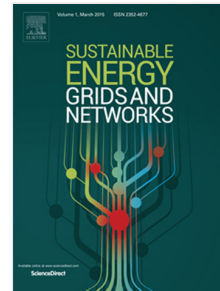
Reference: SEGAN 70

To appear in: *Sustainable Energy, Grids and Networks*

Received date: 22 June 2015

Revised date: 10 May 2016

Accepted date: 22 June 2016



Please cite this article as: E.A.M. Ceseña, P. Mancarella, Practical recursive algorithms and flexible open-source applications for planning of smart distribution networks with Demand Response, *Sustainable Energy, Grids and Networks* (2016), <http://dx.doi.org/10.1016/j.segan.2016.06.004>

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**Paper highlights:**

- We present a practical methodology based on recursive functions for distribution network planning
- The methodology allows planning the networks considering traditional and smart solutions
- The methodology is distributed as open source to encourage its use by project planners
- Applications of the methodology are illustrated with real UK networks
- Further applications are demonstrated, particularly uncertainty and risk management

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