Accepted Manuscript

Lowering greenhouse gas emissions in the built environment by combining ground source heat pumps, photovoltaics and battery storage

G.B.M.A. Litjens, E. Worrell, W.G.J.H.M. van Sark

PII: S0378-7788(18)32040-1

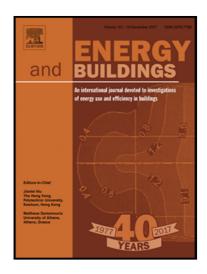
DOI: https://doi.org/10.1016/j.enbuild.2018.09.026

Reference: ENB 8812

To appear in: Energy & Buildings

Received date: 5 July 2018

Revised date: 6 September 2018 Accepted date: 16 September 2018



Please cite this article as: G.B.M.A. Litjens, E. Worrell, W.G.J.H.M. van Sark, Lowering greenhouse gas emissions in the built environment by combining ground source heat pumps, photovoltaics and battery storage, *Energy & Buildings* (2018), doi: https://doi.org/10.1016/j.enbuild.2018.09.026

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

ACCEPTED MANUSCRIPT

G.B.M.A. Litjens et al. / Energy and Buildings 00 (2018) 1–24

Highlights

- Development of a techno-economic and environmental assessment model.
- Assessment of 16 residential ground source heat pumps combined with PV and batteries.
- Direct use of PV by ground source heat pumps of 19% and emission reduction of 80%.
- Additional policy measurements are required for profitable heat pump investments.

Download English Version:

https://daneshyari.com/en/article/11012593

Download Persian Version:

https://daneshyari.com/article/11012593

<u>Daneshyari.com</u>