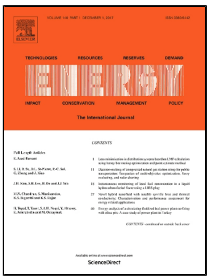
Accepted Manuscript



Sustainable Energy Hub Design under Uncertainty Using Benders Decomposition Method

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PII:	S0360-5442(17)31901-1
DOI:	10.1016/j.energy.2017.11.052
Reference:	EGY 11840
To appear in:	*Energy*
Received Date:	31 October 2016
Revised Date:	06 March 2017
Accepted Date:	08 November 2017

Please cite this article as: S. Hemmati, S.F. Ghaderi, M.S. Ghazizadeh, Sustainable Energy Hub Design under Uncertainty Using Benders Decomposition Method, *Energy* (2017), doi: 10.1016/j.energy.2017.11.052

Highlights

- An optimization-based framework is provided for sustainable design of energy hubs.
- The Benders decomposition algorithm is utilized in solution method.
- External cost of environmental and social impacts of an energy hub is considered.
- A method is provided to determine the value of demand response in the model.
- The results can be used by energy policy makers to provide incentives or penalties.