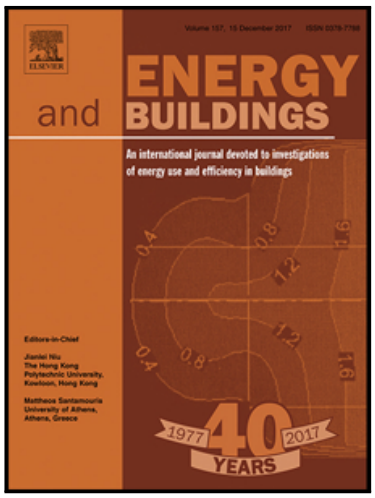
Accepted Manuscript



Thermal Energy Storage Tank Sizing for Biomass Boiler Heating Systems Using Process Dynamic Simulation

Kui Wang , Marco A. Satyro , Ross Taylor , Philip K. Hopke

PII: S0378-7788(18)30684-4
DOI: 10.1016/j.enbuild.2018.07.023
Reference: ENB 8693

To appear in: *Energy & Buildings*

Received date: 2 March 2018
Revised date: 1 July 2018
Accepted date: 5 July 2018

Please cite this article as: Kui Wang , Marco A. Satyro , Ross Taylor , Philip K. Hopke , Thermal Energy Storage Tank Sizing for Biomass Boiler Heating Systems Using Process Dynamic Simulation, *Energy & Buildings* (2018), doi: 10.1016/j.enbuild.2018.07.023

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

Highlights

- Substantial variation exists in recommended thermal energy storage (TES) size
- Process dynamic simulation provides the ability to estimate optimum conditions
- Process dynamic simulation of a pellet boiler was done using real-world data for testing
- Optimum TES size should be based on heat demand around 45% of boiler capacity

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/6727156

Download Persian Version:

https://daneshyari.com/article/6727156

Daneshyari.com