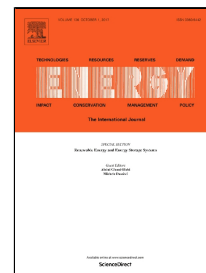


# Accepted Manuscript

Design and simulation of a petcoke gasification polygeneration plant integrated with a bitumen extraction and upgrading facility and net energy analysis

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PII: S0360-5442(17)31593-1

DOI: 10.1016/j.energy.2017.09.072

Reference: EGY 11566

To appear in: *Energy*

Received Date: 27 July 2016

Revised Date: 01 August 2017

Accepted Date: 17 September 2017

Please cite this article as: E. Lazzaroni, M. Elsholkami, E. Martelli, A. Elkamel, Design and simulation of a petcoke gasification polygeneration plant integrated with a bitumen extraction and upgrading facility and net energy analysis, *Energy* (2017), doi: 10.1016/j.energy.2017.09.072

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- A simulation-based modelling of energy demands of oil sands operations is proposed.
- Aspen simulations used to simulate a petcoke polygeneration facility.
- A self-sufficient power, heat and hydrogen facility with a capacity of 190 tonne/h.
- The net efficiency of polygeneration is in the range of 48% - 58%.

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