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EDITED AND REVIEWED BY
Zahra Hajabdollahi,
University of Glasgow, United Kingdom

*CORRESPONDENCE
Jun Du,
dujun9988@163.com

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# RETRACTED: Corrigendum: Bi-level optimization dispatch of integrated-energy systems with P2G and carbon capture

Zongnan Zhang, Jun Du*, Menghan Li, Jing Guo, Zhenyang Xu and Weikang Li

School of Energy and Power, Jiangsu University of Science and Technology, Zhenjiang, China

KEYWORDS

**integrated energy systems, carbon capture system, power to gas (P2G), economic dispatch, wind and solar energy accommodation**



A Corrigendum on
Bi-level optimization dispatch of integrated-energy systems with P2G and carbon capture

by Zhang Z, Du J, Li M, Guo J, Xu Z and Li W (2022). Front. Energy Res. 9:784703. doi: 10.3389/fenrg.2021.784703

In the published article [Zhang, Rufeng., Jiang, Tao., and Guoqing, L. I. (2018a). Bi-level Optimization Dispatch of Integrated Electricity-Natural Gas Systems Considering P2G for Wind Power Accommodation[J]. Proc. CSEE 38 (19), 5668–5678. doi:10.13334/ j.0258-8013.pcsee.172310] was not cited in the article. The citation has now been inserted in [3 BI-LEVEL OPTIMAL DISPATCHING MODEL WITH CAPTURE AND P2G], [Paragraph Number: 1] and should read:

"The structure of the integrated energy system used in this paper and the framework of the constructed bi-level optimal dispatching model are shown in Figure 4 (Zhang et al., 2018b)."

In the published article [Zhang, Rufeng., Jiang, Tao., and Guoqing, L. I. (2018a). Bi-level Optimization Dispatch of Integrated Electricity-Natural Gas Systems Considering P2G for Wind Power Accommodation[J]. Proc. CSEE 38 (19), 5668–5678. doi:10.13334/ j.0258-8013.pcsee.172310] was not cited in the article. The citation has now been inserted in [2.2.1 Natural Gas System Steady State Model], [Paragraph Number: 2] and should read:

"Since there is an upper and lower bound constraint on the power generation capacity of the unit, the gas load consumed by the gas power plant at node i in the gas network at time t should also have an upper and lower bound constraint, which can be expressed as (Zhang et al., 2018b)."

In the published article [Zhang, Rufeng., Jiang, Tao., and Guoqing, L. I. (2018a). Bi-level Optimization Dispatch of Integrated Electricity-Natural Gas Systems Considering P2G for Wind Power Accommodation[J]. Proc. CSEE 38 (19), 5668–5678. doi:10.13334/ j.0258-8013.pcsee.172310] was not cited in the article. The citation has now been inserted in [2.2.1 Natural Gas System Steady State Model], [Paragraph Number: 6] and should read:

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"In this paper, the booster station is modeled as a fixed ratio, and the energy consumed is derived from electrical energy, contained in the load of the grid node where it is located (Bai et al., 2016b), which can be expressed as follows (Zhang et al., 2018b)."

The authors apologize for this error and state that this does not change the scientific conclusions of the article in any way. The original article has been updated.

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