



# Corrigendum: A Review of the Energy Performance Gap and Its Underlying Causes in Non-Domestic Buildings

Chris van Dronkelaar<sup>1,2\*</sup>, Mark Dowson<sup>2</sup>, E. Burman<sup>1</sup>, Catalina Spataru<sup>3</sup> and Dejan Mumovic<sup>1</sup>

<sup>1</sup>Institute for Environmental Design and Engineering, University College London, London, UK, <sup>2</sup>BuroHappold Engineering, London, UK, <sup>3</sup>Energy Institute, University College London, London, UK

**Keywords:** energy performance gap, energy use in buildings, predictions, measurements, feedback, post-occupancy evaluation

## A corrigendum on

**A Review of the Energy Performance Gap and Its Underlying Causes in Non-Domestic Buildings** by van Dronkelaar C, Dowson M, Burman E, Spataru C, Mumovic D. *Front Mech Eng* (2016). doi: 10.3389/fmech.2015.00017

## OPEN ACCESS

### Edited by:

Hasim Altan,  
University of Sharjah, United Arab  
Emirates

### Reviewed by:

Andrew John Wright,  
De Montfort University, UK

### \*Correspondence:

Chris van Dronkelaar  
chrivandr@gmail.com

### Specialty section:

This article was submitted to  
Indoor Environment,  
a section of the journal  
*Frontiers in Mechanical Engineering*

**Received:** 27 October 2016

**Accepted:** 31 October 2016

**Published:** 01 December 2016

### Citation:

van Dronkelaar C, Dowson M,  
Burman E, Spataru C and  
Mumovic D (2016) Corrigendum: A  
Review of the Energy Performance  
Gap and Its Underlying Causes in  
Non-Domestic Buildings.  
*Front. Mech. Eng.* 2:10.  
doi: 10.3389/fmech.2016.00010

## Reason for Corrigendum:

**Correction 1:** The original article is missing a co-author who contributed to this work, I apologize for this oversight. We would like to see him included after M. Dowson, as follows:

Chris van Dronkelaar<sup>1,2\*</sup>, Mark Dowson<sup>2</sup>, E. Burman<sup>1</sup>, Catalina Spataru<sup>3</sup>, Dejan Mumovic<sup>1</sup>  
<sup>1</sup>Institute for Environmental Design and Engineering, University College London, London, UK  
<sup>2</sup>BuroHappold Engineering, London, UK  
<sup>3</sup>Energy Institute, University College London, London, UK

**Correction 2:** Additionally his work has not been acknowledged in the paragraph “Classification of the gap.” In the original article, this section reads:

“These are the gap between compliance modeling and measured energy use, performance modeling and measured energy use and calibration and energy use with a longitudinal perspective:

1. Regulatory performance gap, comparing predictions from compliance modeling to measured energy use.
2. Static performance gap, comparing predictions from performance modeling to measured energy use.
3. Dynamic performance gap, utilizing calibrated predictions from performance modeling with measured energy use taking a longitudinal perspective to diagnose underlying issues and their impact on the performance gap.”

### This should be:

“These are the gap between compliance modeling and measured energy use, performance modeling and measured energy use and calibration and energy use with a longitudinal perspective (Burman, 2016):

1. Regulatory performance gap, comparing predictions from compliance modeling to measured energy use.
2. Static performance gap, comparing predictions from performance modeling to measured energy use.

3. Dynamic performance gap, utilizing calibrated predictions from performance modeling with measured energy use taking a longitudinal perspective to diagnose underlying issues and their impact on the performance gap.”

**Correction 3:** His contribution to the article.

EB is CD's academic supervisor during his doctoral studies and has reviewed the paper and provided feedback on the work, including direct insights from his own work.

**Correction 4:** Change of title as suggested by co-author, removing the word “regulatory,” new title:

A review of the energy performance gap and its underlying causes in non-domestic buildings.

The running title has been updated accordingly to: Review of the Performance Gap.

The original files of the article have been updated.

## REFERENCE

Burman, E. (2016). *Assessing the Operational Performance of Educational Buildings against Design Expectations – A Case Study Approach*. Doctoral thesis, UCL (University College London), London.

**Conflict of Interest Statement:** The authors declare that the research was conducted in the absence of any commercial or financial relationships that could be construed as a potential conflict of interest.

## AUTHOR CONTRIBUTIONS

CD, the main author, is a doctoral researcher and is the main contributor to this review paper, having done the literature research and writing. MD is CD's industrial supervisor during his doctoral studies and has reviewed the paper and provided feedback for initial revision. EB is CD's academic supervisor during his doctoral studies and has reviewed the paper and provided feedback on the work, including direct insights from his own work. CS is CD's secondary academic supervisor during his doctoral studies and has reviewed the paper and provided feedback for initial revision. DM is CD's first academic supervisor during his doctoral studies and has reviewed the paper and provided feedback for initial revision; DM is an Associate Editor for the HVAC Journal.

*Copyright © 2016 van Dronkelaar, Dowson, Burman, Spataru and Mumovic. This is an open-access article distributed under the terms of the Creative Commons Attribution License (CC BY). The use, distribution or reproduction in other forums is permitted, provided the original author(s) or licensor are credited and that the original publication in this journal is cited, in accordance with accepted academic practice. No use, distribution or reproduction is permitted which does not comply with these terms.*