

# **Aalborg Universitet**

# Practical operation strategies for pumped hydroelectric energy storage (PHES) utilising electricity price arbitrage

Connolly, David; Lund, Henrik; Finn, P.; Mathiesen, Brian Vad; Leahy, M.

Published in: **Energy Policy** 

DOI (link to publication from Publisher): 10.1016/j.enpol.2011.04.032

Publication date: 2011

Document Version Accepted author manuscript, peer reviewed version

Link to publication from Aalborg University

Citation for published version (APA):

Connolly, D., Lund, H., Finn, P., Mathiesen, B. V., & Leahy, M. (2011). Practical operation strategies for pumped hydroelectric energy storage (PHES) utilising electricity price arbitrage. *Energy Policy*, *39*(7), 4189-4196. https://doi.org/10.1016/j.enpol.2011.04.032

## **General rights**

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
  You may not further distribute the material or use it for any profit-making activity or commercial gain
  You may freely distribute the URL identifying the publication in the public portal -

If you believe that this document breaches copyright please contact us at vbn@aub.aau.dk providing details, and we will remove access to the work immediately and investigate your claim.

Downloaded from vbn.aau.dk on: December 05, 2025

# Practical operation strategies for pumped hydroelectric energy storage (PHES) utilising electricity price arbitrage

D.  $Connolly^{b*}$  H.  $Lund^b$  P.  $Finn^a$  B.V.  $Mathiesen^b$  M.  $Leahy^a$ 

<sup>a</sup>Department of Physics, University of Limerick, Limerick, Ireland <sup>b</sup>Department of Development and Planning, Aalborg University, Fibigerstraede 13, DK-9220 Aalborg, Denmark

### Correction

In this paper, the y-axis label in Figure 2 and Figure 3 is should be M€/year and not M€/MWh. Please find the correct figures below.

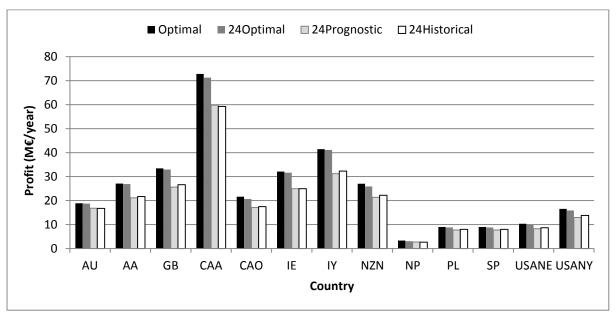


Fig. 2: Profit for 2008 on each of the electricity markets (see Table 2) considered for all four optimisation strategies with a 2 GWh storage capacity.

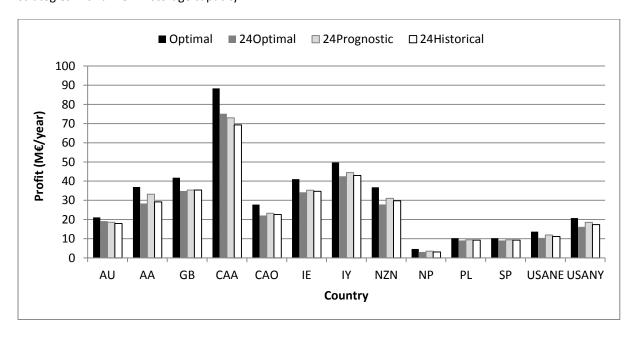


Fig. 3: Profit for 2008 on each electricity market (see Table 2) considered for all four optimisation strategies with an 8 GWh storage capacity.

-

<sup>\*</sup> Corresponding author. Tel.: +45 9940 2483 E-mail addresses: <a href="mailto:david@plan.aau.dk">david@plan.aau.dk</a>