ARTICLE IN PRESS

Data in Brief ■ (■■■) ■■■-■■



54 (http://creativecommons.org/licenses/by/4.0/).

Please cite this article as: J.O. Okeniyi, et al., Smart campus: Data on energy generation costs from distributed generation systems of electrical energy in a Nigerian University, Data in Brief (2018), https://doi.org/10.1016/j.dib.2018.02.022

	ARTICLE IN PRESS
2	J.O. Okeniyi et al. / Data in Brief ■ (■■■) ■■■-■■■
	comparisons. Information details from this data of energy gen- eration costs is useful for furthering research developments and aiding energy stakeholders and decision makers in the formulation of policies on energy generation modes, economic valuation in terms of costing and management for attaining energy-efficient/ smart educational environment. © 2018 The Authors. Published by Elsevier Inc. This is an open access article under the CC BY license (http://creativecommons.org/licenses/by/4.0/)
	access article under the CC BY license (http://creativecommons.org/licenses/by/4.0/).
Specifications	Table
Subject area	Engineering
More specific	Electrical Engineering, Mechanical Engineering, Engineering Economics,
subject area	Engineering Physics
Type of data	Tables, graphs, figures and spreadsheet files
How data was acquired	Monitoring, logging in records and cumulated for each month of the year
Data format	Raw, analyzed
Experimental	Data monitoring and logging were performed manually rather than being
factors	automated

Value of the data

Data accessibility

Longitude3.1581°E)

Experimental

features

Data source

location

89 Accessibility to datasets of energy generation cost of a distributed generation system of electrical 90 energy production using gas fired and diesel engine generators that could be used for fostering 91 systems of practical data-driven research in the understanding of energy cost modeling valuations 92 and how this can be improved towards efficient integration of energy generation for a smart 93 university campus [1–5].

Ordered statistics was employed in combination with cumulative distribution

fitting analyses, Kolmogorov-Smirnov goodness-of-fit statistics (K-S GoF) was

The dataset of energy generation cost provided in this article were collected at

A comprehensive dataset of energy generation cost is provided in this article

employed for test-of-significance of the data distribution fitting

Covenant University, Canaanland, Ota, Nigeria (Latitude6.6718°N,

- 94 • Costs of energy generation data that could be employed for energy generation planning in the 95 development of new energy generation plants as well as in the decision making of how to combine 96 energy generation systems for electricity consumers in a smart university campus [6,7].
- 97 Availability of energy generation costs that could be used for estimations of energy generation cost 98 parameters and cost concepts, such as *levelised* cost of electric energy, society cost of electric 99 energy, returns on investment on energy generating plants, projection of future energy costs for 100 budget purposes, for energy stakeholders and decision makers of energy production in a smart 101 university campus [8–10].
- 102 • Applicability and/or developmental prospects of Smart Electrical Energy Network (SEEN) for a 103 stronger, more sustainable controls of centralized distributed generation of electric energy system 104 via systems of the electric energy generation costing for a smart university campus [3,4,11]. 105
- 106

77

78

79

80

81

82

83

88

- 107
- 108

Please cite this article as: J.O. Okeniyi, et al., Smart campus: Data on energy generation costs from distributed generation systems of electrical energy in a Nigerian University, Data in Brief (2018), https://doi.org/10.1016/j.dib.2018.02.022

Download English Version:

https://daneshyari.com/en/article/6597141

Download Persian Version:

https://daneshyari.com/article/6597141

Daneshyari.com