

For cities to confront the challenges of fossil fuel depletion, increasing energy costs and rapid climate change, it is inevitable to develop and implement urban energy management solutions for their sustainable future. This publication is a training companion developed originally for training courses at the International Urban Training Centre in the Republic of Korea.

SDG 7 - Affordable and Clean Energy 46 SDG 8 - Decent Work and Economic Growth 52 SDG 9 - Industry, ... Table 11 Policy Reforms to Achieve Energy-Efficiency Goals in Kuwait Table 12 Number of Commercial Banks and ATMs per Population Size in Kuwait (2012-2016) Table 13 Percentage of Employees in the Manufacturing

Urban scale studies are categorized into two major approaches - top-down and bottom-up [10], [11]. The top-down approaches encompass macro-level variables and adopt statistical or machine learning methods to explore the energy use of buildings at a large spatial scale in relation to socio-economic aspects (e.g., income, education) [12].

A net-zero energy community (NSEC) is a promising paradigm that can directly contribute to a sustainable building sector and infrastructure. This research presents a unique empirical techno-economic optimization and evaluation approach for NSEC potential and enablers through its application to the understudied context of Kuwait. The proposed approach is ...

2Kuwait University, Kuwait City, Kuwait 3Kuwait Institute for Scientific Research, Kuwait City, Kuwait Abstract To support the implementation of urban energy efficiency strategies, a new generation of urban building energy modeling (UBEM) tools has been introduced which allows cities to simulate the expected energy demands of neighborhoods.

savings for energy efficiency strategies. Building on previous research, this paper implements an UBEM workflow to evaluate the relevance of occupant uncertainty modeling when predicting ...

A more comprehensive definition of urban energy system models has been provided in recent research. There, an urban energy system is defined as "a formal system that represents the combined process of acquiring and using energy to satisfy the energy service demands of a given urban area" [27]. Most of the UBEMs developed so far are limited ...

How Blockchain and FinTech Shape Kuwait's Urban Landscape Blockchain in Energy Management. Blockchain facilitates the creation of microgrids, where energy can be generated, stored, and shared among users. ...

Comparison of four building archetype characterization methods in urban building energy modeling (UBEM): A residential case study in Kuwait City ... 2012. [57] Kuwait Ministry of Energy and Water, Energy Conservation Program Code of Practice MEW/R-6/1983, 1983. [58] Kuwait Ministry of Energy and Water, Energy Conservation Program Code of ...

@article{Cerezo2017ComparisonOF, title={Comparison of four building archetype characterization methods in urban building energy modeling (UBEM): A residential case study in Kuwait City}, author={Carlos Cerezo and Julia Sokol and Saud R. AlKhaled and Christoph F. Reinhart and Adil Al-Mumin and Ali E. Hajiah}, journal={Energy and Buildings}, ...

An all-inclusive urban energy consumption model is still needed to evaluate the energy consumption of Shanghai's entire building stock. Moreover, while publicly available GIS data offers potential for architectural modeling, it has limitations: reliance on single-source data, insufficient coverage of building data in China by well-known GIS ...

While Kuwait is considered one of the wealthiest countries in the world, it is also among the most energy intensive (Alotaibi 2011). According to the International Energy Agency ...

The main purpose of this handbook is to assist people who are working in or with local government to develop sustainable energy and climate action plans and implementation programmes. There can be no single recipe for all cities so it is up to each local government to develop its own innovative and appropriate plans based on local resources and needs.

The Kuwait National Report for the third United Nations Conference on Housing and Sustainable Urban Development (Habitat III) examines these six key areas: (1) urban demography, (2) land and urban planning, (3) the environment and urbanization, (4) urban governance and legislation, (5) urban economy, and (6) housing and basic services. The report also discusses past issues ...

In response to current global environmental challenges, city governments worldwide are developing ambitious long term greenhouse gas (GHG) emission reduction targets such as 40% and 60% by 2025 (San Francisco and London) or 80% by 2050 in New York City [1]. With energy consumption in buildings being a key contributor to urban GHG emissions, ...

KNDP calls for the development of a National Energy Efficiency Action Plan (NEEAP), de-risking Renewable Energy Investment and to promote renewable energy investments and maximize private sector involvement. According to Kuwait's latest updated NDC's report, the country is ambitious to move to a low carbon equivalent economy and to avoid ...

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