PIENAAR ENERGY (PTY) LTD

# Kabul energy efficiency

## Overview

Kabul's energy efficiency regulations include various requirements and guidelines for both residential and commercial buildings. This study assesses the influence of building orientation and window-to-wall ratio (WWR) on energy performance of buildings in Kabul, Afghanistan. Employing BEopt™ energy simulation software, the study investigated these parameters to identify their optimal configuration for maximizing energy. Utilizing BEoptTMenergy simulation software, the research evaluates the impact of these parameters on heating and cooling energy demands across varying configurations.

## Kabul energy efficiency

### Kabul University Renewable Energy Laboratory (KUREL)

KUREL is Afghanistan's first and most equipped renewable energy and energy efficiency laboratory based in the Energy Engineering Department at Kabul University Faculty of Engineering.

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### Kabul Implements Energy Efficiency Regulations

Kabul's energy efficiency regulations include various requirements and guidelines for both residential and commercial buildings. These regulations cover areas such as insulation, lighting, heating and ...

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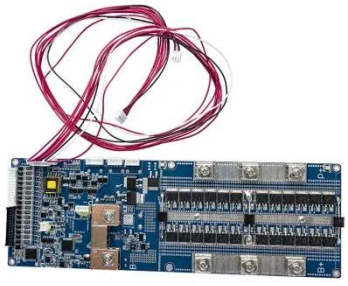

### Optimizing Passive Design Elements to Improve Building Energy

This study aims to assess passive design features through the extensive modifications of building envelopes to affect the energy efficiency of residential buildings in hot arid climates.

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## Journal of Engineering and Applied Sciences Technology

A zero energy building (ZEB) produces enough renewable energy to satisfy its own annual energy consumption needs, thereby reducing the utilization of non-renewable energy within the building ...

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## Optimizing Passive Design Elements to Improve Building Energy

These findings provide actionable insights for architects and builders in Kabul and offer guidance for designing energy- efficient residential buildings in similar climates.

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## A brief overview of Kabul city electrification

Kabul is unable to maintain its energy balance as it consumes more energy than is supplied, and the cur-rent electrical grid is insufficient and problematic. These problems will worsen as its population ...

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## Optimizing Building Design for Energy Efficiency of Buildings in Kabul

These findings provide valuable insights for architects and designers working in Kabul, Afghanistan, and can help them to design more energy-efficient buildings.

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## Kabul Power Plant Energy Storage Project: Key Solutions for ...

Summary: Discover how energy storage systems are transforming Kabul's power infrastructure. This article explores the latest technologies, challenges, and opportunities in Afghanistan's energy sector ...

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## Optimizing Building Design for Energy Efficiency of Buildings in ...

This study employs a multidisciplinary approach to evaluate the impact of building orientation and WWR on the energy performance of a room with an attached bathroom in Kabul, ...

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## (PDF) Energy consumption comparison at various

## insulation scenarios

This paper presents the results of a study on increasing energy efficiency in collective residential buildings, as well as an analysis of movement of freezing point in the structure of external

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