Energia
AI Suite

A performance analysis solution to achieve carbon neutral buildings.

GORD

www.gord.qa

What's Energia AI Suite?

Energia AI Suite is a quasi-steady-state simulation-based assessment tool designed to calculate building projects' energy performance. By calculating energy consumption and the associated carbon footprint of new and existing developments, the tool helps building owners identify ways to reduce their climate impact through implementing energy conservation measures. By effortlessly processing buildings' energy data into useful insights, Energia AI Suite empowers businesses to take informed decisions aimed at optimizing their energy systems.

Four core functions of Energia Suite include:

Setting minimum requirements for the energy performance of new and existing buildings.

Defining the energy demand of a building with reference to the simplified calculation of heat gains, loss, occupancy, controls and system efficiencies.

Generating Energy Performance Labels that compare building's energy consumption against your chosen reference benchmarks.

Identifying ways to reduce buildings' climate impact through energy conservation measures.

Guiding Standards

Energia AI Suite's has been developed by the Gulf Organisation for Research & Development (GORD) in collaboration with renowned international research institutes. Benefiting from leading international standards, Energia AI Suite's comprehensive framework consolidates best practices from CEN and ISO Building Energy Performance Standards, ASHRAE and CIBSE among others.

TRANSLATING ENERGY INSIGHTS INTO INFORMED DECISIONS.

Applications

Energia AI Suite helps businesses evaluate energy performance for any building or infrastructure project. With a rich database defining the benchmark for buildings of any type, Energia can forecast and later compare the energy efficiency of small-, medium- and large-scale projects.

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Why Use Energia AI Suite?

Energia AI Suite gives an instant headstart without requiring arduous training. Its superfast processing time allows comparative analyses of varying scenarios for systems' efficacy and efficiency within minutes. Offering a zero-risk alternative to real-time energy analysis, Energia AI Suite comes with advanced algorithms that help generate energy systems' respond to real-world variables in a virtual environment.

⊕ Simple

Move away from time-consuming 3D modelling. Energia AI Suite's user-friendly interface can calculate energy flows, derived from macro-heat balance equations integrated over time.

⊕ Fast

Energia AI Suite's superfast processing time allows comparative analyses of varying scenarios for systems' efficacy and efficiency within minutes.

⊕ Widely Applicable

Powered by advanced machine learning, Energia AI Suite can be utilized for projects across various sectors, ensuring tailored and optimized energy solutions.

⊕ Performance Focused

Energia AI Suite sets outcome targets, focusing on how features enhance energy ratings against industry benchmarks, rather than rewarding specific building features.

⊕ City-Scale Deployment

Energia AI Suite can simulate city-wide energy performance for various buildings, promoting low-carbon initiatives by enforcing minimum energy standards compared to industry benchmarks, in line with local building codes.

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Accelerating Green Solutions
for a Sustainable Future