

What percentage of Greek electricity consumption is residential?

Historically, residential and commercial-public sector comprise ~70% of total electricity consumption of Greek market. Electricity retail prices were historically consistent in the Greek market until 2021, with minor deviations in end-user prices year over year. upfront prices.

Why did electricity consumption decrease in Greece?

Greece decrease of 3,3%. This decline was mainly attributed to the region's grappling with soaring energy costs, which resulted in substantial reduction in demand, especially among industrial users. Additionally, an unusually mild winter exerted further downward pressure on electricity consumption.

Why is electricity demand increasing in Greece?

According to IPTO's TYNDP, the evolution of the system demand (projections to 2033) is mainly attributed to the electrification of the transport sector along with the expected interconnection of the (currently) non-interconnected islands. Greece's electricity load curve presents seasonal highs in winter (Dec-Jan) and summer (Jul-Aug) period.

Can AI be used for smart energy management?

AI-based analytics for smart energy management can help ensure a better balance between supply and demand. In this context, the EU-funded I-ENERGY project will work to evolve, scale up and demonstrate innovative AI as a service energy analytics applications and digital twin services.

Can Greece achieve net-zero emissions by 2050?

Being a member of the European Union, Greece has set ambitious environmental goals, targeting a 55% reduction in overall greenhouse gas emissions by 2030, with the ultimate aim of achieving net-zero emissions by 2050. Substantial strides have already been taken towards these objectives.

Is Res a good investment for the Greek economy?

An additional national economy surplus to generators as a result of the increased exporting activity Comparing the 3 scenarios, the results show that there is a huge financial potential for both end-customers and generators. Depending on the level of RES deployment the total benefit for the Greek economy varies from EUR6,2 to EUR17,5 billion.

Intelligence Energy Systems concern: Intelligent building systems (BEMS), Renewable energy sources (RES), Smart grids, Solar cooling, Green ships and ports ... Greece, 12-14/9/2012. Kolokotsa D., Pouliezios A., Zinzi M., Synnefa A. and M. Santamouris (2010). "Development of a toolkit for the evaluation of energy performance of cool materials ...

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3 are directly related to the electricity consumption. Out of these emissions, 40% of them ... Intelligent Energy Management Systems (IEMS) are a necessary tool to reduce energy overconsumption in households, commercial, educational ...

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Buildings are one of the fastest growing energy consuming sectors. It is estimated that the amount of the energy consumed in the European Union's (EU) buildings reaches 40-45% of total energy consumption [1], about two-thirds of which is used in dwellings the current decade, energy demand of the tertiary and residential sectors are increasing 1.2% ...

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Welcome to my personal web site! Since September 2023, I am Associate Professor and the GreenStar Endowed Fellow in Energy in the Dept. of Electrical and Computer Engineering at the University of Texas at San Antonio (UTSA). My main research interests focus on applied artificial intelligence in various engineering applications such as Smart Grids, Smart ... Continue ...

The four-year project on the Greek island, located between Kea and Serifos about 100km southeast of the port of Piraeus, was aimed to provide a testing ground for a range of innovative technologies implemented "holistically".

Computationally intelligent energy forecasting methods for appropriate energy management at the consumer/producer side have a positive impact on the preservation of energy and play a constructive ...

Additionally, efficient utilization of urban energy can be further achieved through an intelligent energy management system. Additionally, collected energy can be supplied to power smart transportation systems. ... I. Developing an IoT Smart City framework. In Proceedings of the IISA 2013, Piraeus, Greece, 10-12 July 2013; pp. 1-6. [Google ...

Intelligent Energy Management Systems (IEMS) are a necessary tool to reduce energy overconsumption in

households, commercial, educational and industrial buildings and subsequently the total CO₂ ...

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Ies Intelligent Energy Systems Limited was set up on Friday the 8th of April 2022. Their current partial address is Galway, and the company status is Normal. The company's current director has been the director of 3 other Irish companies; 1 of which is now closed. Ies Intelligent Energy Systems Limited has 1 shareholder.

Planned Energy storage systems: The Greek Regulatory Authority for Energy and Water (RAEW) has approved more than 35 projects throughout Greece, most of which are in northern and central Greece. ... (Intelligent Asset Management Platform). The project aims to develop hardware and software and implement digital solutions to optimize the ...

Over the last few years, Electric Vehicles (EVs) have been gaining interest as a result of their ability to reduce vehicle emissions. Developing an intelligent system to manage EVs charging demands is one of the fundamental aspects of this technology to better adapt for all-purpose transportation utilization. It is necessary for EVs to be connected to the Smart Grid ...

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