

Does Slovenia have a smart grid project?

Today, Slovenia already has several recognized projects in terms of smart networks, cities and local communities, and let me just name a few. The SINCRO.GRID is a smart grid investment project of European significance and an EU flagship project in the priority thematic area of smart grids deployment.

How can the Slovenian government help with AI & Data Science?

Developing a web platform with online courses to acquire advanced professional digital skills, especially in the fields of AI and data sciences. The Slovenian Government promotes research excellence and increases the scientific and innovation capacity in the field of AI in both the public and private sector.

What does the Slovenian npui say about AI?

Finally, the Slovenian NpUI highlights the importance of proper technical data and computational infrastructure (e.g. HPC, Edge AI) and testing and experimental facilities to facilitate the development of AI tools and algorithms.

When will AI be released in Slovenia?

In August 2020, the Slovenian Government released for public consultation a draft National programme promoting the development and use of AI in the Republic of Slovenia by 2025 (NpUI), with the plan to release the official AI programme in 2021 (Slovenia, 2020).

At this juncture of the world's energy system, sustainability and resilience are gaining prominence as key considerations in the pursuit of a more reliable and environmentally friendly energy future [1]. Two critical components lie at the core of this paradigm shift: the incorporation of smart grid technology and the application of hydrogen energy [2].

The project is actually a virtual cross-border control center that facilitates new electricity generation from renewable energy sources in Slovenia and Croatia and its safe and efficient integration into the grid.

Local Energy Agency Spodnje Podravje (LEASP) has successfully completed the DEMO project, which concerned a new smart grid for the kindergarten in Destrnik, Slovenia. The smart grid was implemented as ...

Generative AI for smart grid modeling. Photo Credit. Image courtesy of LIDS. MIT's Laboratory for Information and Decision Systems (LIDS) has been awarded \$1,365,000 in funding from the Appalachian Regional Commission (ARC) to support its involvement with an innovative project, "Forming the Smart Grid Deployment Consortium (SGDC) and ...

In the era of propelling traditional energy systems to evolve towards smart energy systems, systems, including power generation energy storage systems, and electricity consumption have become more dynamic. The

quality and reliability of power supply are impacted by the sporadic and rising use of electric vehicles, and domestic and industrial loads. Similarly, with the ...

This recognizes that each organization's journey to smart grid is unique, with different start points, challenges and opportunities, success criteria and resources. ... while Artificial Intelligence helps to derive value from existing ...

Le smart grid sono state considerate nella proposta di Piano nazionale per l'energia e il clima (Pniec) che fissa i principali obiettivi su energia e clima dell'UE e dell'Italia al 2020 e al 2030.. Le reti intelligenti vengono menzionate, in particolare, tra le soluzioni utili a centrare gli obiettivi posti a livello ambientale e a livello di ricerca e innovazione.

intelligence systems will be transformed into a centre focusing on governance and policies in AI. In order to improve scientific research in the fields of AI and big data, Slovenia is currently ...

This recognizes that each organization's journey to smart grid is unique, with different start points, challenges and opportunities, success criteria and resources. ... while Artificial Intelligence helps to derive value from existing grid data, and reduce OPEX. Data and AI in combination fuel new data-driven business models to enable ...

Recently, the US Department of Energy awarded \$3 billion in grants for "smart grid" projects, marking a significant investment in AI-related initiatives. One significant way AI is reshaping the grid is through expediting ...

The statistics shown in Fig. 1., clearly demonstrate a noticeable increase in the adoption of these technologies across various smart grid applications over the past five to six years.AI and Big Data algorithms enable the grid to analyze vast amounts of data in real time, enabling predictive maintenance, fault detection, and load forecasting []. ...

With the inclusion of AI in smart grid technologies, utilities now have an array of smart features to take advantage of. AI can be used to understand electricity demand based on human ...

Several companies are pioneering AI technologies in smart grid management. For instance: Nvidia and Utilidata Partnership: This collaboration aims to develop smart grid chips that enhance real-time data collection and processing, allowing for more efficient resource allocation by utility companies.

In Slovenia, southeast Europe, 11 technology companies and research institutions have formed a consortium to work on the Slovenian-Japanese smart grid project, worth EUR50million, said the country's Technological Platform for Smart Grids.

A microgrid (MG) is an independent energy system catering to a specific area, such as a college campus,

hospital complex, business center, or neighbourhood (Alsharif, 2017a, Venkatesan et al., 2021a) relies on various distributed energy sources like solar panels, wind turbines, combined heat and power, and generators (AlQaisy et al., 2022, Alsharif, 2017b, Venkatesan et al., ...

By leveraging the potential of Artificial Intelligence (AI), the Smart Grid (SG) can monitor, control, and optimize the operation of MG, promoting energy efficiency, and aiding the transition to sustainable energy solutions [6]. The SG is characterized by features like Demand Response Programs (DRPs), which employ AI algorithms to shift energy ...

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