

Preview

Kalasatama, located in Helsinki, Finland, is a pioneering smart city district designed to integrate advanced technology with sustainable urban development. Initiated in 2009, the project aims to create a model for future cities by focusing on energy efficiency, smart mobility, a knowledge economy. In this paper, a framework for a smart city design is presented. The framework is complemented with sub-dimensions, and the purpose of this. As an indication for Finland's success, for the second year in a row, Finland ranks first in the EU Digital Economy and Society Index (DESI), a metric for digital performance and digital competitiveness. The great performance is credited to excellence in digital public services and the integration. These aspects were highlighted during Smart Cities Day at Expo 2025 Osaka in the Nordic Pavilion. Antti Arasto (VTT), Nicolas Leong (Wartsila), Maiju Viiki (City of Tampere) and Jussi Akerblom (Business Finland) discussing the role of flexibility and sustainable fuels new power systems at Nordic. According to the International Energy Agency (IEA) fossil fuels ultimately accounted for more than 81% of production in 2018. The city government launched a EUR 1.

Our review underscores the importance of incorporating intelligent analysis and enabling the development of third-party applications within the IoT framework to efficiently meet the evolving

In this paper, a framework for a smart city design is presented. The framework considers a smart city from the perspective of four dimensions--strategy, technology, governance, and

This study confronts the growing challenges of energy consumption and the depletion of energy resources, particularly in the context of smart buildings. As the demand for energy increases

Abstract and Figures In this paper, we exploit state-of-the-art energy management in sustainable smart cities employing the Internet of Energy (IoE).

This comprehensive review paper examines the technological advancements towards smart energy management in smart cities. It provides an overview of the concept of smart energy

Finland is leading the way in Europe in terms of smart city development, using its resources to create new business models and efficient

Results show that the IoT-based intelligent city energy management system can satisfy the "smart city" construction needs. It integrates isolated energy information and measures energy consumption.



Finland Smart City Energy Internet Intelligent Model

VTT Smart City: A smart city is related to the smart energy sector, focusing on data, services, energy, housing and transport in urban environments.

Sectors identified as particularly promising in Finland and therefore as focus of this study are cybersecurity, telecom (5G/6G), smart cities & smart mobility - and as a promising one in a bit earlier

By so doing, and combining the developments in ICT-led smart cities and sustainable energy, the notion of the smart energy city has come close to represent a digitally-mediated variant

By 2030, smart cities will fundamentally transform how 68% of the global population lives, works, and interacts with urban infrastructure. These

Finland is fast becoming the world's leading laboratory for an elegant climate idea: capture the heat rejected by data-centre servers and feed it straight

Today Finland is a leading country in smart energy. A combination of groundbreaking renewable energy technology, smart networks and automation

Finnish cities and companies showcased smart, sustainable urban solutions at Expo 2025 Osaka, from hydrogen transport to flexible energy

Key components of smart sustainable cities include smart infrastructure, renewable energy sources, efficient waste management, green spaces, and digital governance systems. They aim to create

Simplifying smart: We will make the world safe, connected, intelligent and convenient with new digital solutions, business models and ways of working. We will transform the Finnish industry to be

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