Smart grid prague

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The project’s goal is to primarily incorporate an intelligent electric power consumption control employing renewable resources in The Pra?a?ka premises. The sports area Pra?a?ka behind The ?i?kov depot is an important power administration of The City District Prague 3 with important electric power consumption. The project thus tries to resolve the modification of the current electric micro-network of the area with several other buildings to utilize aspects of the so-called Smart Grid as much as possible.

Prague, the capital city of the Czech Republic, has been known during its renowned history as a magnet for commercial, cultural, scientific and political activity. This thriving city, also known as the City of a Hundred Spires, is home to more than 1.2 million people and generates an estimated 25 per cent of the Czech Republic"s GDP. With its enchanting architecture, visual charms and historic landmarks, Prague is listed as a Unesco World Heritage Site.

If we could travel back in time to visit Prague in the 14th century, we would see builders constructing the Charles Bridge across the Vltava River to connect the city"s Star? M?sto (Old Town) with Mal? Strana (Lesser Town). Fast forward to the 21st century and we observe Prague striving to build a new type of bridge. As this article reveals, it is a bridge of urban transformation connecting today"s city to a smart city future.

Prague"s smart city concept--known as Smart Prague 2030--involves plans for technology innovation, knowledge sharing, digital solutions and services and modernization of city operations. Smart Prague planning embraces strategic priorities where technologies are expected to have the greatest positive impact on quality of life:

"The example of Smart Prague shows that a clear, purposeful and long-term oriented strategy is needed to successfully transform a city into a truly smart city. Technology is utilized as an enabler for transformation, but the overall purpose is that solutions transform into benefits for the stakeholders - especially the citizens of Prague", recognizes Bart Gorynski, Managing Partner of bee smart city.

To plan and develop Smart Prague projects, the city established a Smart City Project Office managed by Oper?tor ICT, a municipal company with responsibilities to solicit ideas from citizens, municipal districts and other stakeholders; establish a process for smart city project reviews; evaluate financing options, and coordinate the implementation and promotion of projects.

Oper?tor ICT is implementing technologies to improve the quality of life of Prague citizens and the management of local government services. These projects include initiatives in public transport, big data, analytics, electric vehicles and energy. Examples of Smart Prague projects include:

Improving the quality of life through intelligent mobility is one of Prague"s key priorities. Adriana Krn??ov?,

Mayor of Prague, states in a recent article that the city "has a very good and dense public transportation system, which even visitors from Western Europe often praise". Mayor Krn??ov? says Prague intends to build upon its transport strengths by increasing battery charging infrastructure and modernizing the public transport payment system.

Not all of Prague"s quality-of-life initiatives are dependent on digital technologies. A biotop pond and adjacent lawn in Lhotka (Prague"s District 4) provide the natural setting for a new open-air swimming pool. The biotop pool relies on plants, algae and filters to sustain water quality. As Petr ?t?p?nek, Mayor of Prague 4 explains: "We chose the biotope because its ecological operation does not require chemicals. Our environment is already burdened by different chemicals, many people suffer from allergies, so we did not want to build a tiled pool full of chlorinated water."

Implementing a smart city strategy in the Czech Republic entails complex issues, some of which linger from the evolution from a socialist system of state-controlled planning to a modern market-driven process. In Prague, today"s issues include how to build trust in urban planning, preserve historical and cultural value, ensure social and digital inclusion, manage urban sprawl and provide sustainable infrastructure.

Confronting these issues requires cooperation in urban innovation and knowledge sharing. As described by Mayor Krn??ov?: "Cooperation between the public sector, schools, citizens and companies is very important to us. To generate results, Prague needs to create the right conditions, develop the infrastructure and connect the creative part with the business community."

Oper?tor ICT is committed to knowledge sharing and cooperation with public administrations, private sector entities and universities involved in modern technologies. As an example, Oper?tor ICT is cooperating on the design of a new virtualization system with local partners and research institutions including the IPR, the Czech Institute of Informatics, Robotics and Cybernetics; the Czech Academy of Sciences; the Czech Technical University; and municipal companies and state-funded institutions.