

Solution Overview

Smart Cities Solutions



The next generation of cities will need to satisfy consumers' values and deliver convenience and prosperity while also responding to changes in the global environment and urban environment. Cities must achieve a well-balanced harmony between a range of perspectives, from lifestyles and economics to the global environment. This is what Hitachi means by a "Smart City." The Hitachi Consulting team is working with our clients to help them deploy Smart City technologies and manage the change to a smarter, more efficient future.

Background and Business Challenges

A Smart City is typically defined as "an environmentally conscious city that uses information technology (IT) to manage energy and other resources efficiently." In Hitachi's vision, a Smart City is one that seeks to satisfy the desires and values of its residents—with the use of advanced IT to improve energy and other resource efficiency and concern for the global environment as prerequisites—and in so doing maintains a "well-balanced relationship between people and the Earth."

Every urban system is composed of a supply side (e.g., power, water treatment, transportation infrastructure) and a demand side for services from that system (e.g., lighting, drinking water, mobility). The challenge and opportunity lie in creating and maintaining a balance between supply and demand. Cities become "smart" by smoothing the demand and stabilizing the supply, which ultimately scales and optimizes an urban system's capacity to provide the level and quality of services people, business,

governments, and communities want and need.

None of this happens easily, however. The complex nature of urban systems means that every job requires a custom approach developed by experts. It also means that the price of any failure in those systems is incredibly high. Communities that want to take advantage of Smart City systems have been stifled by a lack of clarity around the existing solutions and a lack of expertise in deploying them.

Solution and approach

Hitachi Consulting's Smart Cities Solutions team will interview city and community leaders and other stakeholders to define the short and longer-term objectives of the city and acquire knowledge regarding the existing assets available (e.g., data, infrastructure). A series of charrettes are typically conducted to further identify and refine ideas for the future state of the city or portion of the city to be addressed in the project.

The team will define the scope, schedule, and budget for the various alternatives and then help the project proponents develop the business cases or value propositions to incorporate smart solutions regarding energy, water, transportation, and other systems. Detailed feasibility analysis will provide city leaders and citizens with the information needed to make informed investment decisions.

Hitachi Consulting Smart Cities Solutions team facilitates all aspects of implementing

the solutions, from arranging financing, to selecting technologies, to systems integration and managing the design and construction aspects of the projects. Our experience working with other Smart City projects globally brings invaluable lessons learned to every Smart City project we undertake.

Benefits

One factor behind the need for Smart Cities is the international call for action in response to changes in the global and urban environments. As our world changes, we are tasked with finding solutions to address resource depletion, urban growth, and other issues brought on by climate change and an increasing population.

With around 70 percent of the world's population expected to live in cities by 2050, smart urban development is going to be critical in the world's efforts to curb global climate change. At the same time, Smart Cities systems can make that growth in urban areas much smoother and increase quality of life for the current and future residents.

The way people interact with their communities is changing. There is a shift away from product ownership and toward services. Experiences, life balance, and convenience are starting to compete with monetary remuneration in the workplace. Cities that are prepared to provide and support these new priorities will thrive. Smart City infrastructure is going to be a fundamental necessity for cities to achieve this kind of efficiency and bidirectional communication of information and goods.

Hitachi's Technologies Employed in Smart Cities

- Information and Communications Technology
- Information Control Systems
- Smart Grid
- Energy Management Systems
- Community Energy Management Systems
- Intelligent Water
- Smart Mobility
- Traffic Hub Solutions / Electric Vehicle Infrastructure

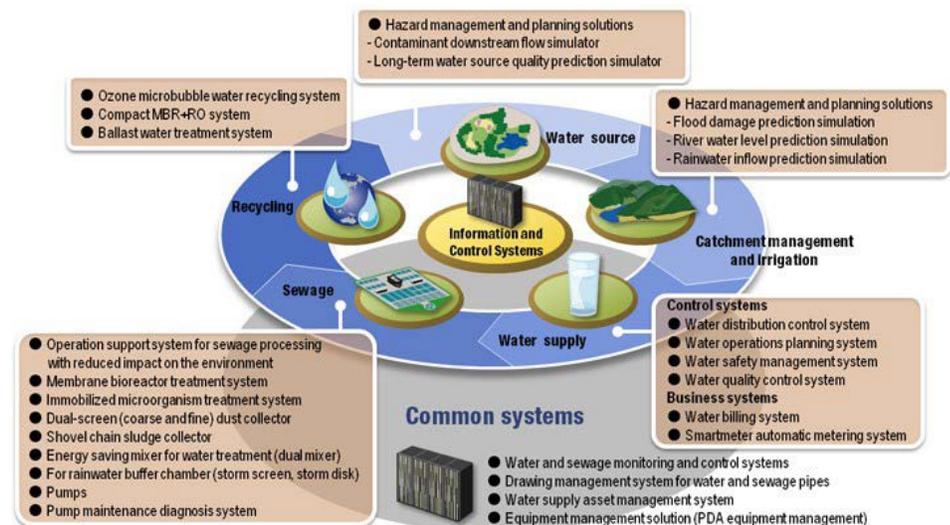
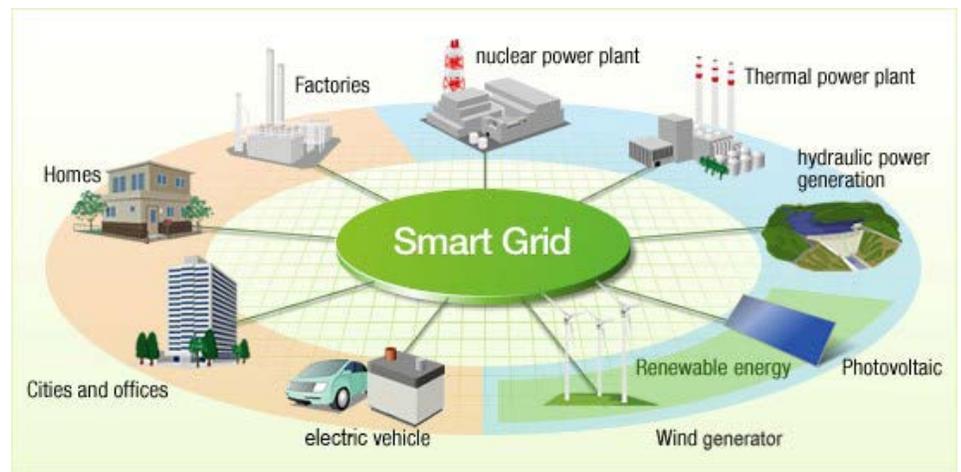
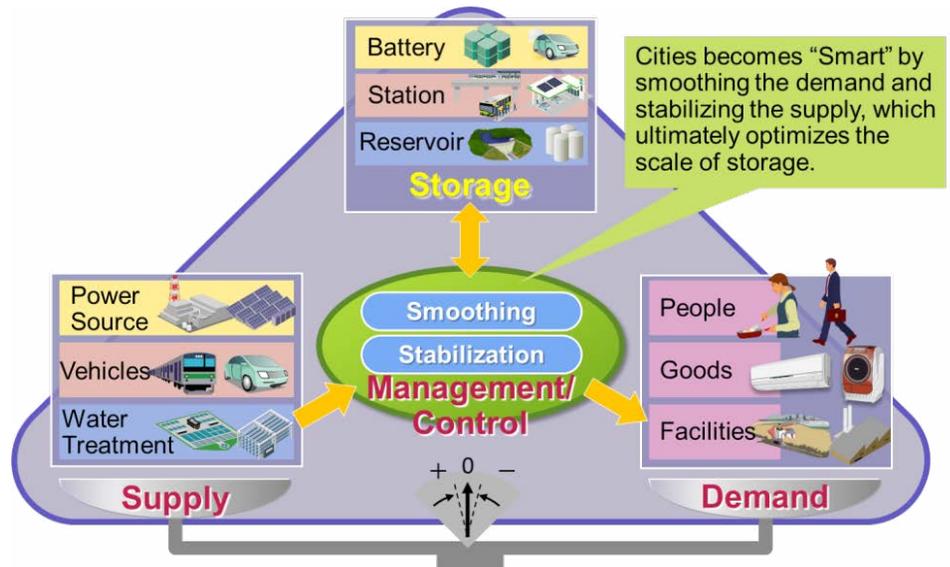
Why Hitachi Consulting

When attempting to redefine the roles that infrastructure plays in our communities, such as using information technology to manage complex resources in new ways, you need a partner that can help you define your goals and plot a systematic approach to achieving those goals. You also need a partner who understands the machine-to-machine and information management systems and how to integrate them; whether it is Hitachi manufactured equipment or equipment developed by others, we can successfully work with and integrate any technology.

Hitachi Consulting is an industry leader in management consulting and information and communications technology deployment. We are also highly integrated with our sister companies that have been deploying Smart City technology projects globally. In fact, Hitachi, Ltd., Hitachi Consulting's parent company, was the 2013 Frost & Sullivan Asia Pacific Smart City Solutions Provider of the Year. Hitachi, Ltd. boasts a strong research and development team with social innovation motives. With resources such as these, Hitachi Consulting is well equipped to devise better solutions for our clients.

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Hitachi Consulting
 We make it happen. Better.

HITACHI
 Inspire the Next

Hitachi Consulting is the global management consulting and IT services business of Hitachi Ltd., a global technology leader and a catalyst of sustainable societal change. In that same spirit—and building on its technology heritage—Hitachi Consulting is a catalyst of positive business change, propelling companies ahead by enabling superior operational performance. Working within their existing processes and focusing on targeted functional challenges, we help our clients respond to dynamic global change with insight and agility. Our unique approach delivers measurable, sustainable business results and a better consulting experience.