

Bellevue Smart Update

Council Vision

Bellevue is a "smart city" with a clean, high-quality environment and excellent and reliable infrastructure that supports our vibrant and growing city, including high-tech connectivity.





Smart City Element Goals

Projects are embedded across multiple departments, workplans and initiatives.

Connectivity

Improve consumer services and communications infrastructure, with focus on speed, availability and choice



Transportation

Improve people's ability to move around the city safely and efficiently



Public Safety

Further integrate infrastructure, services, agencies, and personnel to keep our residents and visitors safe



Water

Ensure high-quality delivery of water services to homes and businesses to minimize disruptions and increase customer service



Enhance building systems and analytics to improve building systems performance, efficiency and resource conservation



Energy

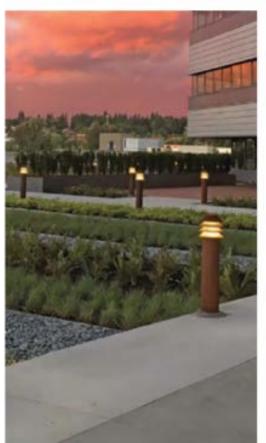
Improve and integrate energy systems to ensure sufficient, efficient and reliable energy that powers our modern digital society



Principle Strategies

- 1. Focus on proactive and adaptive
- 2. Drive with data
- 3. Pursue partnerships
- 4. Leverage regional relationships



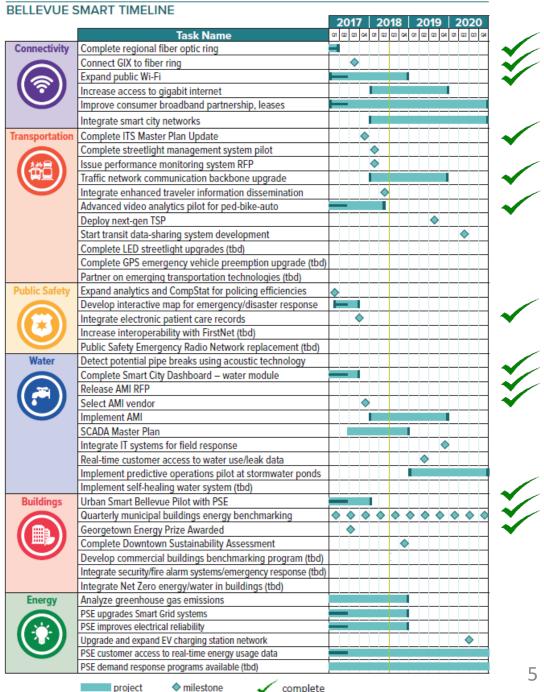




How's our progress?

On track with plan

Bellevue Smart Plan update targeted for 2019



Progress: Expanded Public Wi-Fi

- Outdoor Wi-Fi in Parks:
 - Completed Crossroads Park, Highland Park, Lewis Creek, Kelsey Creek, Downtown Park
 - In progress Botanical Garden
- Affordable Housing Properties:
 - Spiritwood Apartments (148th Ave) - Completed
 - Highland Village (NE 8th St) in design
 - Somerset Gardens (NE 29th PI) initial discussions

Connectivity



Progress: Intelligent Transportation System

- Traffic signal performance monitoring
- Streetlight management
- Parking management



Progress: Integrated Electronic Patient Care

Public Safety

- Mobile patient information sharing with hospitals
- End-to-end data collection between EMS, doctors and follow up care
- Integrated data analysis allows early awareness of community health trends



Progress: Water Operations

- Smart Water Meters contract procurement in progress
- Implementing predictive operations at storm water ponds
- Predictive analytics on pipeline failures through machine learning
- Long-term planning for real-time operational controls through SCADA

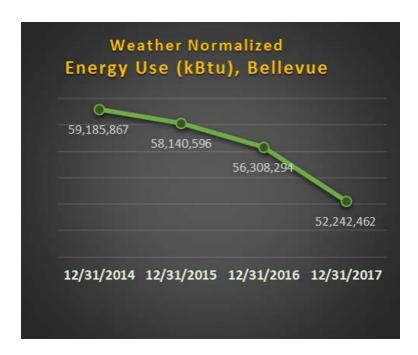
Water





Progress: Benchmarking City Buildings

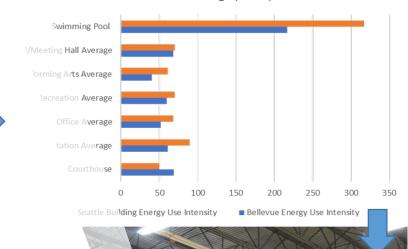
27 municipal buildings over 5,000 sq ft benchmarked for energy use intensity



Reduced energy use over time

Buildings









Progress: Energy

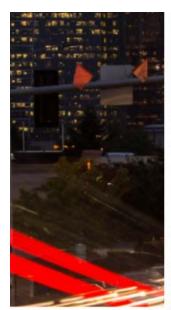
- PSE electric and gas smart meter upgrades 2018-2020
- Bellevue signed up for green power for select city facilities through PSE's Green Direct program
- U.S. DOE grant to analyze drivers of change in greenhouse gas emissions near completion







Questions?







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