

AIGC Services – Smart City

Case Study: Carson City Public Works, Nevada, USA

The Opportunity



In Nevada, the Carson City Public Works Department in the US explored a shared municipal services infrastructure to help maintain a city with more than 50,000 residents. Its aims with the centralized platform were to manage the city water more efficiently, including waste-water, transportation; landfill; fleet; environmental; and renewable power systems around the clock.

The Approach

A shared municipal services infrastructure was deployed to maintain the city facilities with a centralized platform to manage the city's water around the clock more efficiently. The town adopted the latest technology, including tablets and

smartphones, to make operators and management more efficient, and increase situational awareness/operational 'readiness.' Since adopting a digital twin/unified operating center approach, the Public Works Department has been able to do more facilities monitoring and management remotely.

The Benefits

Since adopting a digital twin/unified operating center approach, the Public Works Department has been able to do more facilities monitoring and management remotely, reducing operational hours by 15 percent and the workweek from five standard days to four 10-hour days. Remote access to data has also significantly reduced fuel costs, as the city's maintenance workers do not have to return to a centralized location to find out about their next task. At a practical level, the data-driven nerve center helps manage the city's solar plants, which provide up to 748,000 kWh of clean power each year and deliver more than 22 million gallons of water while processing 6.9 million of gallons of waste-water each day.