

## Water, Water Everywhere? Not in Las Vegas

In the mid-1800s, when settlers first began to make Las Vegas their home, the only source of water was from three springs that formed a small oasis in a vast desert. Today, the Las Vegas Valley Water District is responsible for supplying water to dozens of resort hotels, thousands of businesses, and nearly 1 million residents.

The Water District's delivery system is comprised of a wide variety of facilities, including reservoirs that can store 50 million gallons of water and pumping stations that pump up to 140 million gallons of water per day—enough water to fill Madison Square Garden seven times a week. As a result, managers at the Water District must be able to determine, at a moment's notice, the condition of the water supply, the quality of the water, and the state of the facilities. The Water District needed to find a way to achieve their goal of instant analysis; after an extensive investigation into their needs and options, they wound up choosing a dynamic charting and graphing solution called PopChart from Corda Technologies.

The Water District found that Corda's family of tools and services are faster, more flexible, and more scalable than any other charting solution. Corda's PopChart displays data as visual images, allowing users to explore relationships, perform analysis, and more easily understand their data. Corda was able to provide the Water District a solution that met their stringent requirements.

### Visualizing critical data

"Our managers use PopChart to get a global picture of a ton of data," said Peter Burke, senior Web developer for the Las Vegas Valley Water District. "One example is what we call the 'Daily Water Report.' This report is a usage summary that charts how much water was actually used throughout various parts of the valley."

Burke explained that different areas of the valley consume different amounts of water, and the Water District compiles information about each area's water usage. These charts show each day, for each area, what the consumption was, what the storage capacity was, what time the water usage was at its highest or lowest level, and so on. "We also have a weekly chart that summarizes the information on a weekly basis," said Burke. "This is important because managers need to know which areas of the valley require more water, as well as which areas can spare it."

Burke said managers benefit from using charts and graphs because these visual presentations enable them to immediately comprehend the current situation and quickly make crucial decisions based on up-to-date information.

### Real-time monitoring

Water usage is not the only function that PopChart helps to track. "We have other departments that use PopChart to report very different information," Burke said. "For instance, our engineering group uses it to chart expenditures on certain projects to show that they're on time and under budget, while the water quality group graphically displays to managers the state of the water's quality."

