

# BEVERAGEWORLD



PRODUCTION

## CASESTUDY

# Water Recovery RO System to Help Save Water at DPSG Bottling Plant

**W**hen the process water treatment system is started up early next year at Dr Pepper Snapple Group's (DPSG) new bottling plant in Victorville, Calif., USA, it will provide a sustainable, reliable, cost-effective solution that meets the plant's stringent ingredient water specifications.

Designed to recover more than 90 percent of the water, the Siemens system includes a water saving feature known as reject recovery reverse osmosis (RO), and also a backwash recovery system. The treated water will be used to make purified bottled water and a variety of soft drinks.

The 1,200-gpm system will include media and carbon filtration, nanofiltration, RO and ultraviolet disinfection. The Victorville plant needs nanofiltration and reverse osmosis technologies because of the variety of beverages it will produce and the respective ingredient water quality requirements. Once

completed, the plant will be the most advanced production feature in DPSG's system, and will be LEED certified. The system works as follows: the concentrate water from the two primary nanofilters and the primary RO system is collected and sent to the reject recovery system. The permeate from this

recovery system is first-quality water and can be used for beverage production. The recovery system reduces the water sent to drain by approximately 50 percent.

Reject recovery RO is becoming increasingly popular for beverage applications. "With so much water normally going down the drain from the nanofiltration system, it makes sense for plants to

reduce this water to drain by using reject recovery RO technology," says David Bridgers, food and beverage development manager at Siemens. "It's another way that plants can save money while reducing their impact on scarce fresh water supplies." **BW**



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