



## LOS ANGELES DEPARTMENT OF WATER & POWER, U.S.

### Key Facts

**Agency:** Los Angeles Department of Water & Power

**Country:** United States

**Company Profile:**

- Workforce of 9,500 employees
- Population Served of 4.1 million
- Annual Budget of \$4.25 billion
- Water System 10-year Capital Plan consists of a \$6.5 billion budget and over 200 capital projects

**Products Used:**

EcoSys™

### CAPITAL PROGRAM COST CONTROLS AT LOS ANGELES DEPARTMENT OF WATER & POWER

The Los Angeles Department of Water & Power is one of the largest U.S. municipal utilities, serving millions of residents and businesses. The city relies upon a complex water system network to support its huge population growth. LADWP therefore manages a corresponding portfolio of capital projects to maintain and expand the system. The utility's Water Engineering and Technical Services (WETS) division uses their Capital Improvement Program Management System (CIPMS) to oversee and manage a ten-year capital water system program currently consisting of over 200 projects with a budget of \$6.5 billion dollars. The scope of the CIPMS encompasses budgeting, forecasting, performance management, earned value management, scheduling, and resource management.

One of the primary purposes of the WETS CIPMS is to track the progress of 28 critical projects that are necessary to meet requirements enacted by California's Department of Public Health to improve the quality and safety of the state's water supply. Failure to complete the projects by the regulatory deadline could result in substantial fines and other penalties.

Facing a variety of challenges to performance management visibility and reporting inefficiencies, the organization decided to implement an upgrade of their aging CIPMS which had originally been deployed in 2001. The upgrade, using EcoSys™ Enterprise Project Performance software as its central hub, created an integration, reporting, and analysis platform to address the demand for greater cost accountability and government reporting.

### CHALLENGES

- Lengthy monthly procedures were required to capture, process, and reconcile data, including: actual costs and resources, budgets, forecasts, and earned value
- Understanding project status was a tedious and time-consuming process
- Quality assurance and data validation was difficult



- The system contained no projects performance metrics
- Needed to handle multiple, large data sets for analysis and to create what-if planning scenarios
- Consistency was lacking in schedules, WBS, and milestones across projects
- Resource loading was overly complex costing many unnecessary labor hours
- Report generation was manual and time-consuming, resulting in slow reaction to project demands and management requests

## SOLUTIONS

- EcoSys is the capital planning and reporting hub between Primavera P6, the mainframe budget system, and the legacy general ledger system
- Standardize project structures, milestones, and coding to allow for easy comparisons against actual performance
- Automate data sharing of actuals, budgets, and schedules to eliminate manual and duplicate data entry
- Schedule and produce capital program quarterly reports automatically
- Role-based dashboards for managers and engineers provide immediate access to project information
- Quick revisions to project schedules and cash flow help determine true capital needs
- Visibility into labor resource needs and imbalances, help shift project schedules to meet regulatory deadlines, available resources, etc.
- Performance metrics – CPI, SPI, ETC, ETA – provide better project management

## BENEFITS

- Substantial reduction in required labor for monthly data processing (reports generated in minutes rather than days)
- Immediate visibility into project performance facilitating better project management and control, and creating a “feedback loop” for identifying and correcting problems

- Flexible report builder combined with integrated data allowed WETS staff to respond quickly to information requests
- Reduction of data errors from manual extraction and transfer of data
- Hidden data quality issues were exposed and fixed
- The ability to analyze and compare all applicable data sets allowed for the development of a series of Earned Value reports for tracking project performance
- The ability to produce monthly audit reports to compare actual costs versus forecasted costs
- As a web-based solution, EcoSys required little incremental IT resources following deployment

With the successful implementation of EcoSys, LADWP’s Water System is continuing to develop enhanced metrics for monitoring project performance as well as expanding executive level reporting. It is considering using EcoSys for Operations & Maintenance (O&M) Budgeting and is evaluating EcoSys for use by the Power System.

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## ABOUT HEXAGON

Hexagon is a global leader in digital solutions that create Autonomous Connected Ecosystems (ACE). Our industry-specific solutions create smart digital realities that improve productivity and quality across manufacturing, infrastructure, safety and mobility applications.

Hexagon’s PPM division empowers its clients to transform unstructured information into a smart digital asset to visualize, build and manage structures and facilities of all complexities, ensuring safe and efficient operation throughout the entire lifecycle.

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