



EAST VALLEY WATER DISTRICT

LEADERSHIP • PARTNERSHIP • STEWARDSHIP

ENGINEERING AND OPERATIONS COMMITTEE

September 24, 2018 - 2:30 PM

31111 Greenspot Road Highland CA 92346

AGENDA

CALL TO ORDER

PLEDGE OF ALLEGIANCE

PUBLIC COMMENTS

NEW BUSINESS

1. Approve the May 29, 2018 Engineering & Operations Committee meeting minutes
2. Plant 28 Rehabilitation Staff Report
3. Engineering Updates for September 2018

ADJOURN

PLEASE NOTE:

Pursuant to Government Code Section 54954.2(a), any request for a disability-related modification or accommodation, including auxiliary aids or services, that is sought in order to participate in the above-agendized public meeting should be directed to the District Clerk at (909) 885-4900 at least 72 hours prior to said meeting.

Subject to Approval

EAST VALLEY WATER DISTRICT
ENGINEERING AND OPERATIONS COMMITTEE MEETING

MAY 29, 2018

MINUTES

Ms. Duran called the meeting to order at 2:30 p.m. Mr. Morales led the flag salute.

PRESENT: Directors: Morales, Goodrich

ABSENT: None

STAFF: Jeff Noelte, Director of Engineering & Operations Patrick Milroy,
Operations Manager; Martha Duran, Senior Administrative Assistant;
Brenda Van Meter, Administrative Assistant

GUEST(s): Wayne Brown

PUBLIC COMMENTS

Ms. Duran declared the public participation section of the meeting open at 2:30 p.m.

There being no written or verbal comments, the public participation section was closed.

APPROVE THE NOVEMBER 27, 2017 ENGINEERING AND OPERATIONS COMMITTEE MEETING MINUTES

Director Morales asked for a clarification on whether a motion and second was required as there are only two Directors present for these meetings. Ms. Duran will inquire with the District Clerk and provide an answer to the Directors. Both Directors motioned to approve as submitted. The minutes were approved.

SET THE DAY AND TIME TO HOLD RECURRING COMMITTEE MEETINGS

Mr. Noelte stated that in the past the meetings were held on the 4th Monday every other month and recommended that the committee continue the course of that schedule. The committee agreed. Ms. Duran will ensure the committee calendar is updated to reflect this schedule.

OPERATIONS AND MAINTENANCE UPDATE

Mr. Milroy presented the Operations and Maintenance Update. He explained that this report is also provided monthly with the General Manager's report, but wanted to provide some explanation in more detail. He stated that there are approximately 8,000 valves in our system that staff rotates exercising throughout the years, and reviewed the various section

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of the maintenance and operations reports in detail. When asked about where we find out about leaks, he responded that our best information about leaks typically comes from customer reports.

ENGINEERING OVERVIEW FOR MAY 2018

Mr. Noelte presented plant 134's hydro-electric completion. He stated that a high-pressure turnout was built to provide high-pressure imported water (State Water Project) to the hydro-electric generating equipment. The commissioning of this project took two weeks. It will be important to watch water quality going forward since the organic of the imported water varies, which impacts the formation of disinfection by-products like TTHM. Only imported water can be used to generate electricity due to the high pressures needed.

The committee discussed the interconnection agreement with Southern California Edison as it applies to the hydro-electric generators and the benefits of the cost savings involved. State Water has a set price, but the availability can potentially change based on drought conditions.

ADJOURN

The meeting adjourned at 3:14 p.m.

James Morales
Governing Board Member

Phillip Goodrich
Governing Board Member



EAST VALLEY WATER DISTRICT

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STAFF REPORT

Agenda Item #2.
Meeting Date: September 24, 2018
Discussion Item

To: ENGINEERING AND OPERATIONS COMMITTEE

From: General Manager/CEO

Subject: Plant 28 Rehabilitation Staff Report

RECOMMENDATION:

This report is provided to the Engineering and Operations Committee for its information only.

BACKGROUND / ANALYSIS:

The Operations Department regularly inspects wells, reservoirs and pump sites to determine what maintenance is required to ensure maximum water production and storage capabilities. Staff budgets necessary funds every year for Plant rehabilitation and maintenance. Plant 28 was identified in fiscal year 2017-18 in need of maintenance and upgrades.

Plant 28 is located at 25385 Court street, the south side of Court street just west of Del Rosa Ave. in San Bernardino. This site contains a groundwater well that produces approximately 1500 gallons per minute in the lower zone. Downstream of the well there are four granular activated carbon (GAC) pressure vessels, each containing 20,000 pounds of coconut shell that remove Tetrachloroethylene (PCE) by adsorption. The vessels were installed in 1998 and were identified in need of maintenance.

Staff inspected the vessels and determined the following deficiencies. The internal coating showed corrosion and rust, so they were sandblasted and recoated with NSF approved epoxy. Existing internal filter nozzles were plastic and brittle; therefore, they were replaced with stainless steel nozzles. Due to the failing external operating valves and the various operating modes, all 28 exterior valves were replaced with uniform operation. Exterior coating was prepped and painted with District Standard Grouse Tan.

Lastly, the vessels each received 20,000 pounds of fresh carbon. The vessels are then sampled to ensure the water meets all water quality standards and placed back in service.

AGENCY GOALS AND OBJECTIVES:

Goal and Objectives IV - Promote Planning, Maintenance and Preservation of District Resources

- b) Enhance Planning Efforts that Respond to Future Demands
- c) Dedicate Efforts Toward System Maintenance and Modernization

REVIEW BY OTHERS:

This agenda item has been reviewed by the executive management team.

FISCAL IMPACT

The fiscal impact associated with this agenda item was listed in Operating Budget Fiscal Year 2017-18.

Recommended by:

Patrick Milroy
Operations Manager



EAST VALLEY WATER DISTRICT

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STAFF REPORT

Agenda Item #3.
Meeting Date: September 24, 2018
Discussion Item

To: ENGINEERING AND OPERATIONS COMMITTEE

From: Director of Engineering & Operations

Subject: Engineering Updates for September 2018

RECOMMENDATION:

This report is provided to the Engineering and Operations Committee for its information only.

BACKGROUND / ANALYSIS:

An update on the Plant 134 Hydroelectric System is given below.
Plant 134 Hydroelectric System:

- The system has been operating since April.
- A web portal is available to view energy generation data. Two screen shots of this web portal are shown in Exhibit 1.

AGENCY GOALS AND OBJECTIVES:

Goal and Objectives I - Implement Effective Solutions Through Visionary Leadership

a) Identify Opportunities to Optimize Natural Resources

REVIEW BY OTHERS:

This agenda item has been reviewed by the executive management team.

FISCAL IMPACT

There is no fiscal impact associated with this agenda item.

Respectfully submitted:

Jeff Noelte
Director of Engineering & Operations

ATTACHMENTS:

Description

Attachment 1

Type

Cover Memo

EXHIBIT 1: PLANT 134

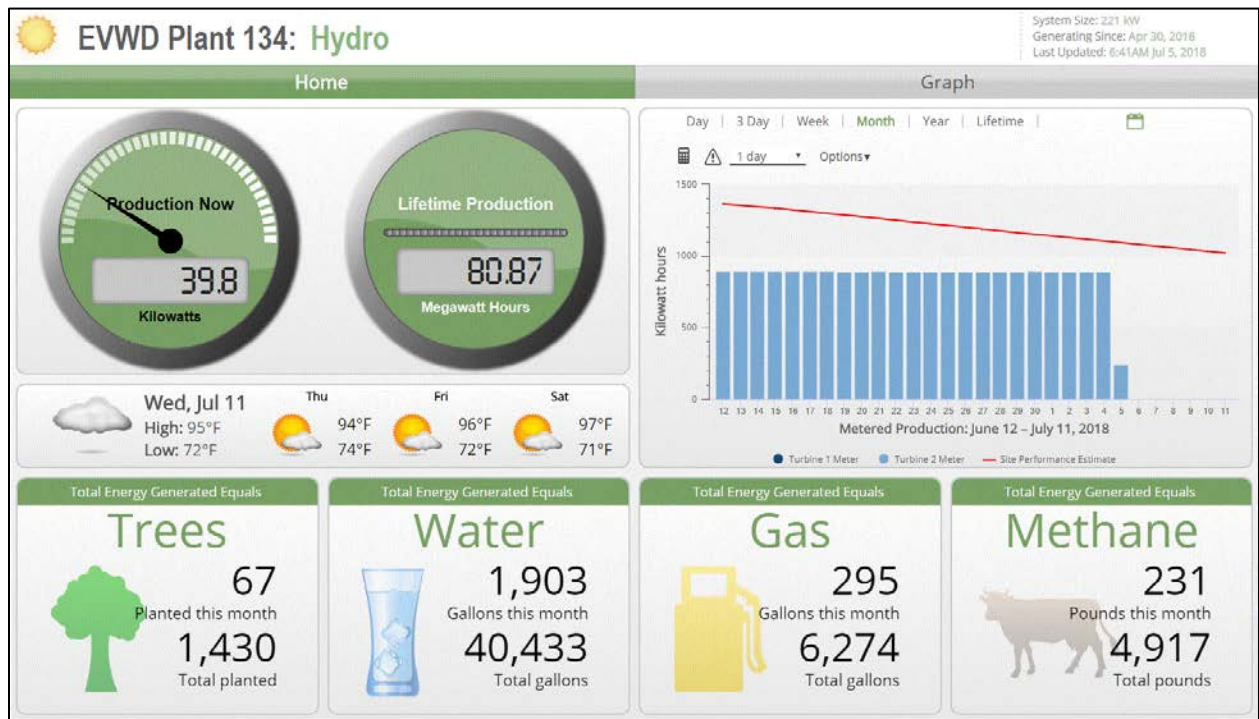
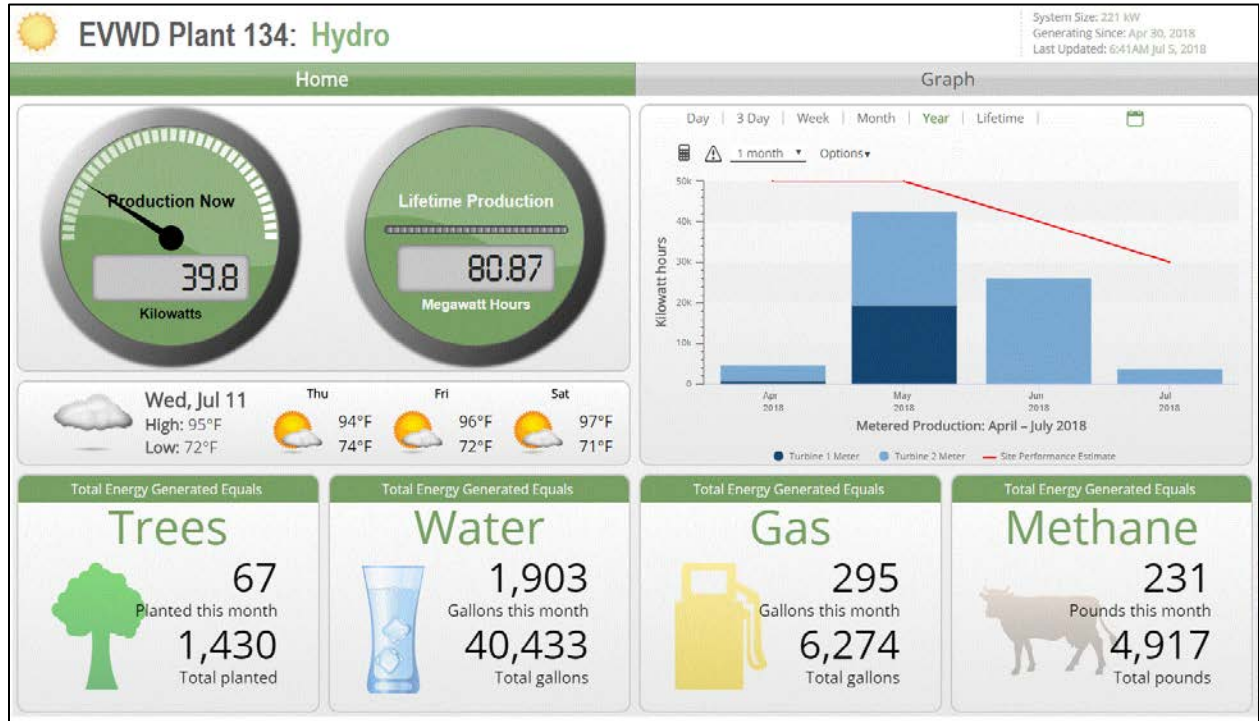


Exhibit 1: Screen shots of the web portal for the hydroelectric generation system at Plant 134