



Floating Solar at Ellis Creek Water Recycling Facility

DECEMBER 19, 2022

Overview

Timeline

System Parameters

Financials

Agreement Highlights

Ellis Creek Facility Integration

Project Team



Andrew Sundling, Project Manager, White Pine Renewables

Christopher Bolt, Director of Public Works and Utilities

Daniel Park, Mechanical & Electrical Maintenance Supervisor

Diane Ramirez, Project Manager

Dylan Brady, Assistant City Attorney

Eric Danly, City Attorney

Evan Riley, Managing Partner, White Pine Renewables

Gina Benedetti-Petnic, Assistant Director of Public Works and Utilities

Leah Walker, Special Project Consultant

Matt Pierce, ECWRF Operations Supervisor

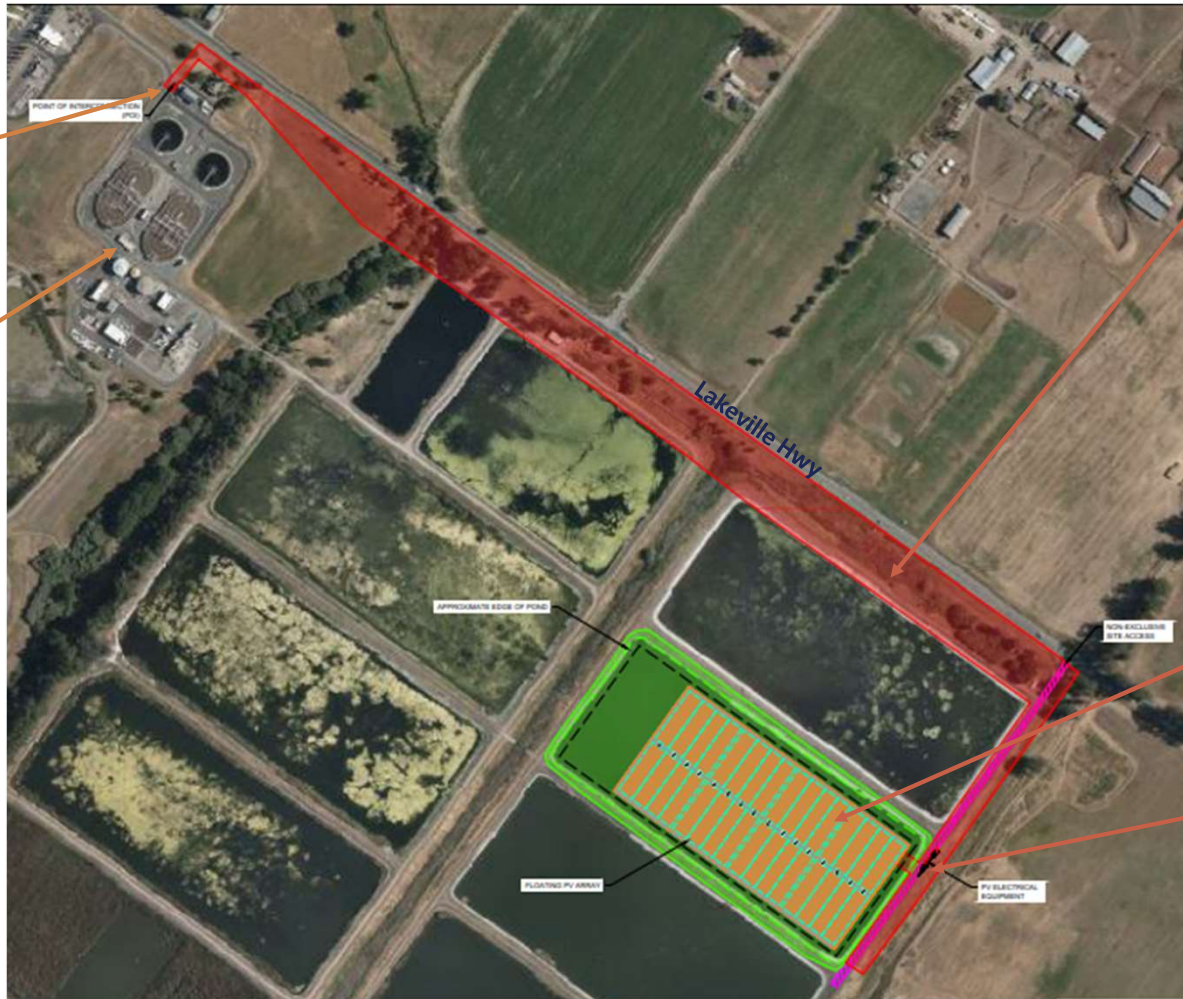
Mike Borger, Sage Energy Consulting (NV5)

Patrick Carter, Assistant to the City Manager

Aerial View of Project Scope

Point of electrical connection

Ellis Creek Water Recycling Facility



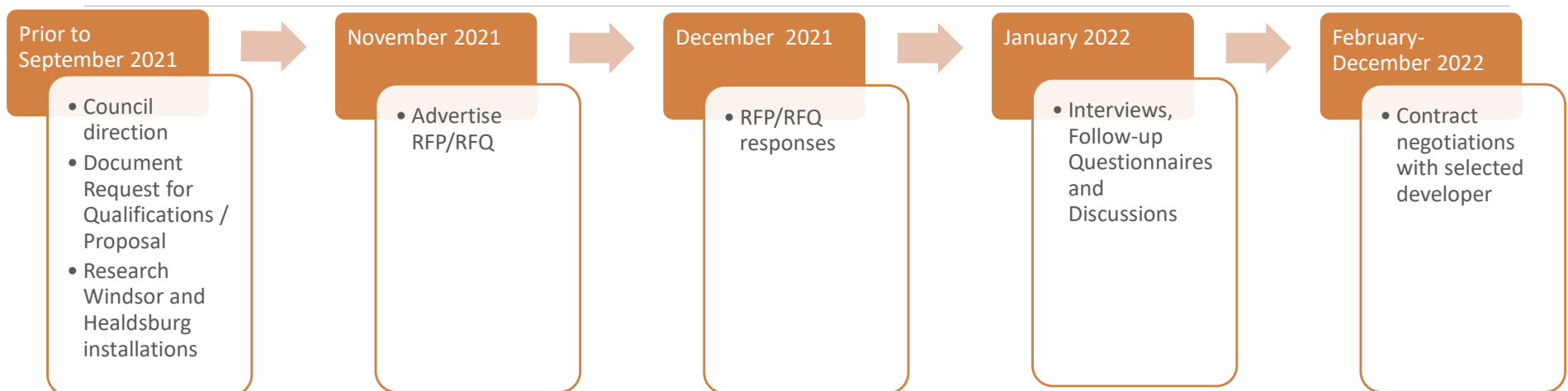
Area of work to install conduit and wiring to connect array to main meter

Solar array on pond 3

Inverters and transformer



Procurement



Contract:

- 20-year base with two five-year optional extensions
- 1.9% escalator, includes PG&E System Upgrades
- Utilized PPA documents with ForeFront Solar as foundation

Timeline



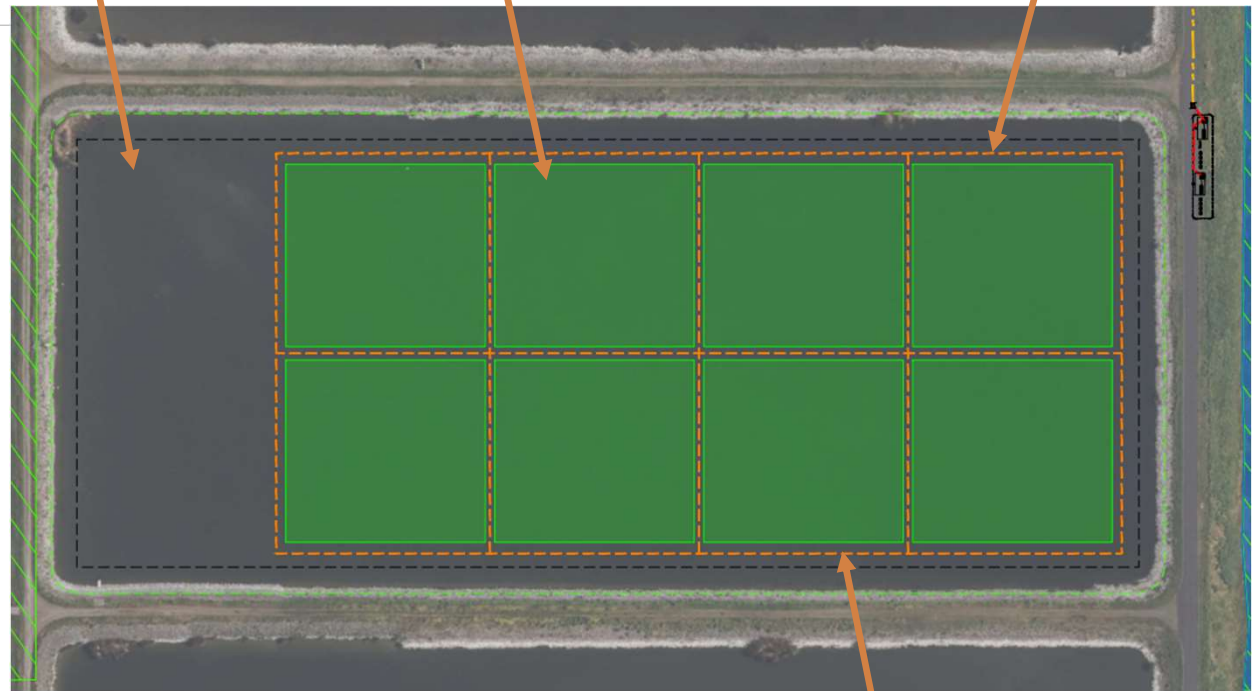
Key System Parameters



98% energy offset of both
ECWRF electrical meters

No battery storage included

Pond 17-acres



PV System Size
5.8MW-DC /
4MW-AC

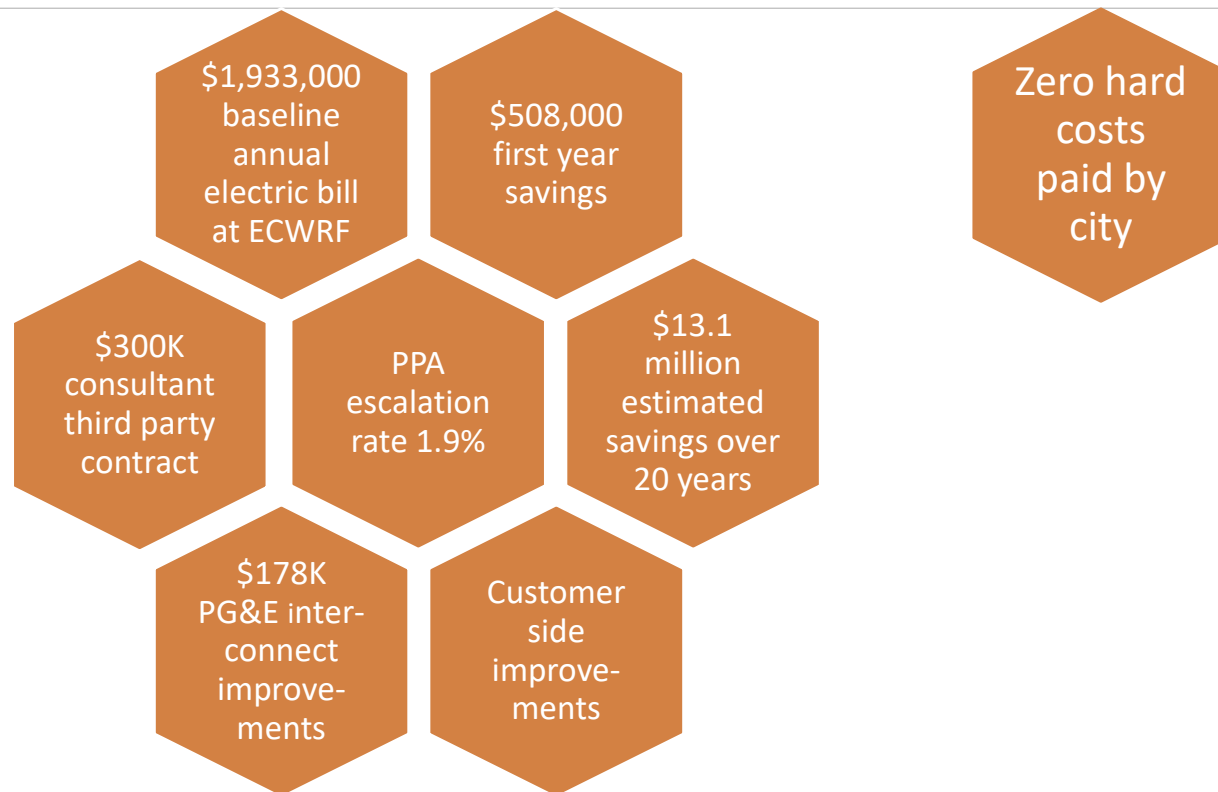
Estimated Production Year 1 -
9,075,000 kWh

Solar array covers 68%
of pond surface

10.45-acre (455,069 total
square feet) floating array



Financials





Ellis Creek Water Recycling Facility Integration

Mosquitos

- Marin Sonoma Mosquito Vector Control District
- Design adjustments

Water Quality

- “Slugging the ponds”
- Contracted two array cleanings per year
- Additional cleanings \$15,000

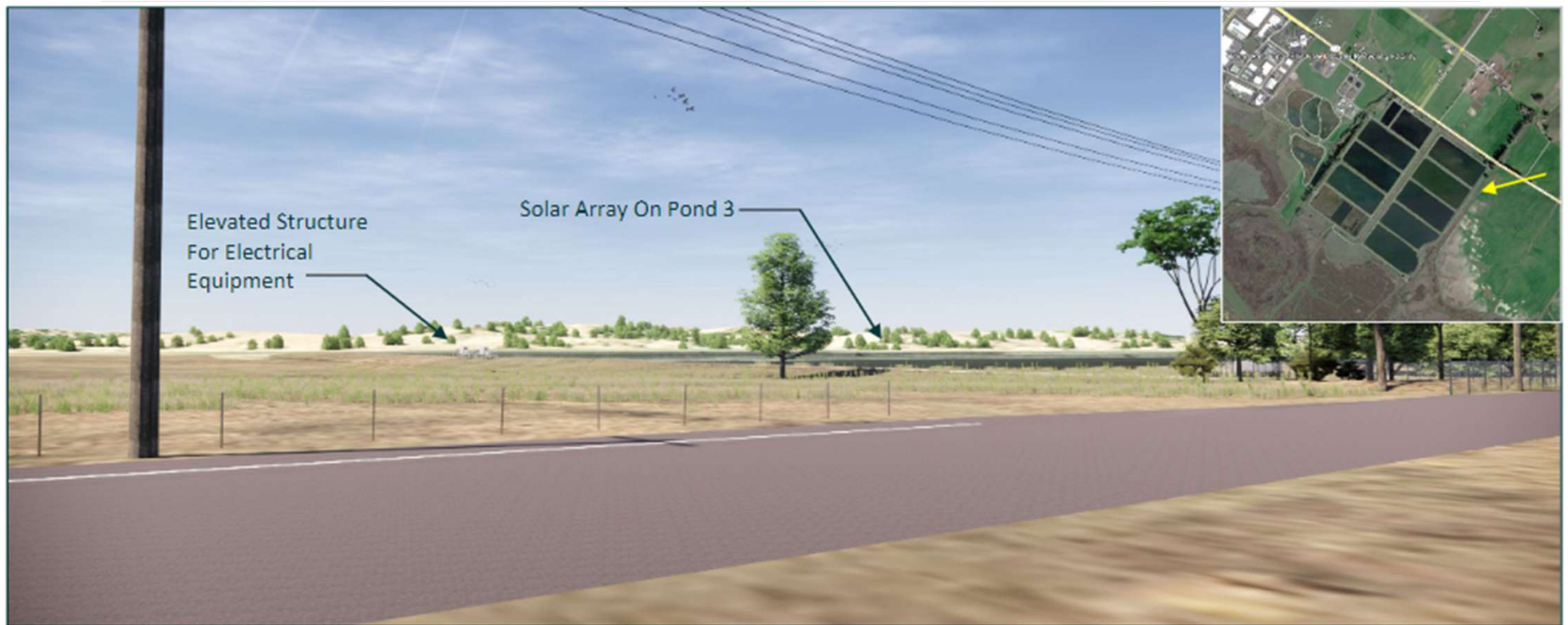
CIP Projects at Ponds

- Outfall fall 2023
- Pond transfer pipe



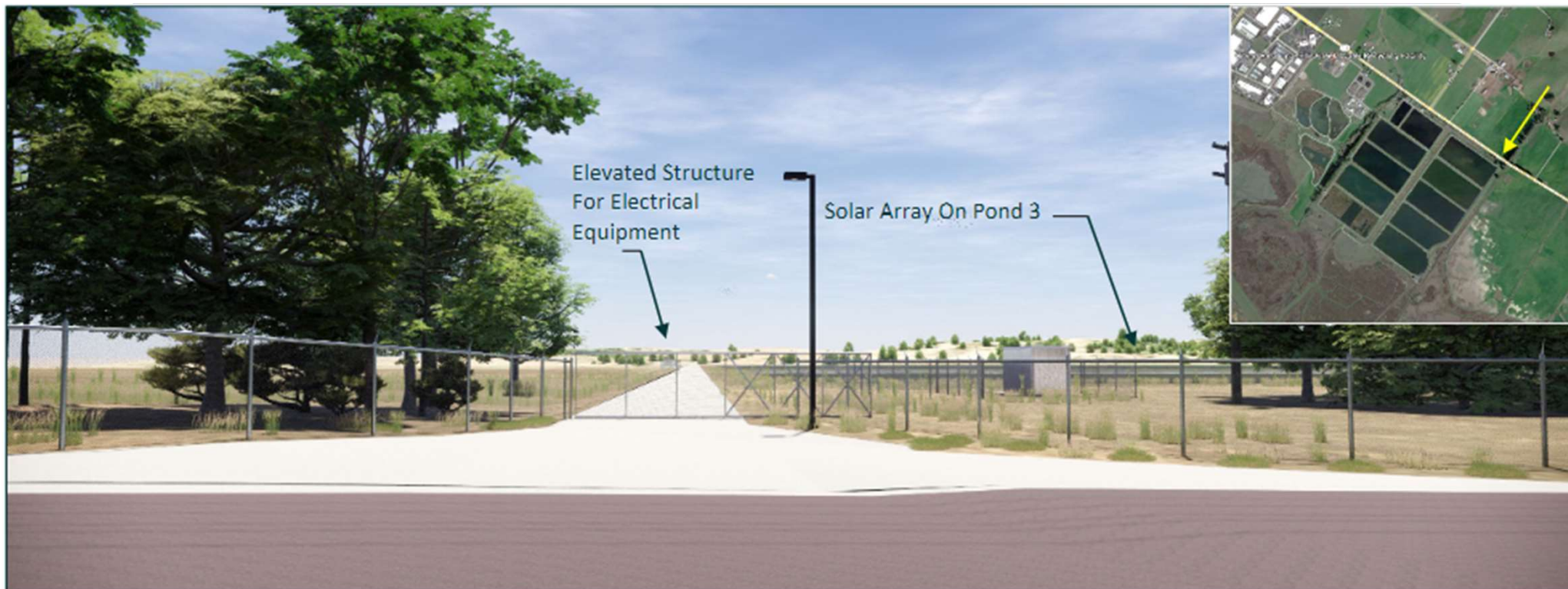


View from Lakeville Highway





View from Lakeville Access Gate





Recommended Action

It is recommended the Council conduct a Public Hearing to make Findings Pursuant to Government Code Section 4217.12 and consider a resolution approving in accordance with CEQA an Addendum to the Environmental Impact Report for the Ellis Creek Water Recycling Facility and authorizing the City Manager to execute a Power Purchase Agreement for a Floating Solar Array at the Ellis Creek Water Recycling Facility with Ellis Creek Solar LLC



Questions and Discussion

