



Dublin San Ramon  
Services District  
*Water, wastewater, recycled water*

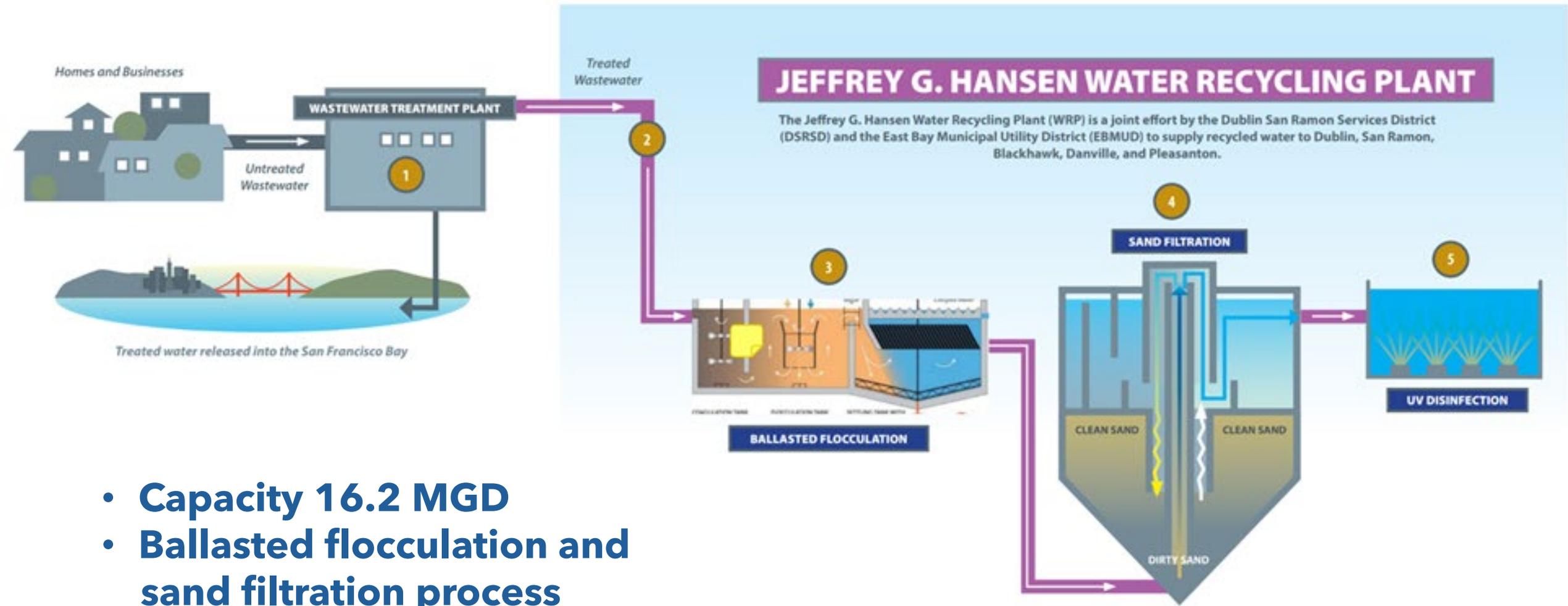
# DERWA Energy Evaluation

DERWA Board of Directors  
April 28, 2025

Dan Gill, Operations Director

# DERWA Energy Evaluation

1. Recycled water treatment plant
2. Recycled water distribution system
3. Potential energy project partnerships



- **Capacity 16.2 MGD**
- **Ballasted flocculation and sand filtration process**
- **UV Disinfection**
- **16.6 mile "backbone"**

# DERWA Distribution System

- 2 Distribution Tanks
  - R100 4.5 MG
  - R200 4.5 MG
- 3 Pumping Plants
  - PSR1
  - PSR200A
  - PSR200B



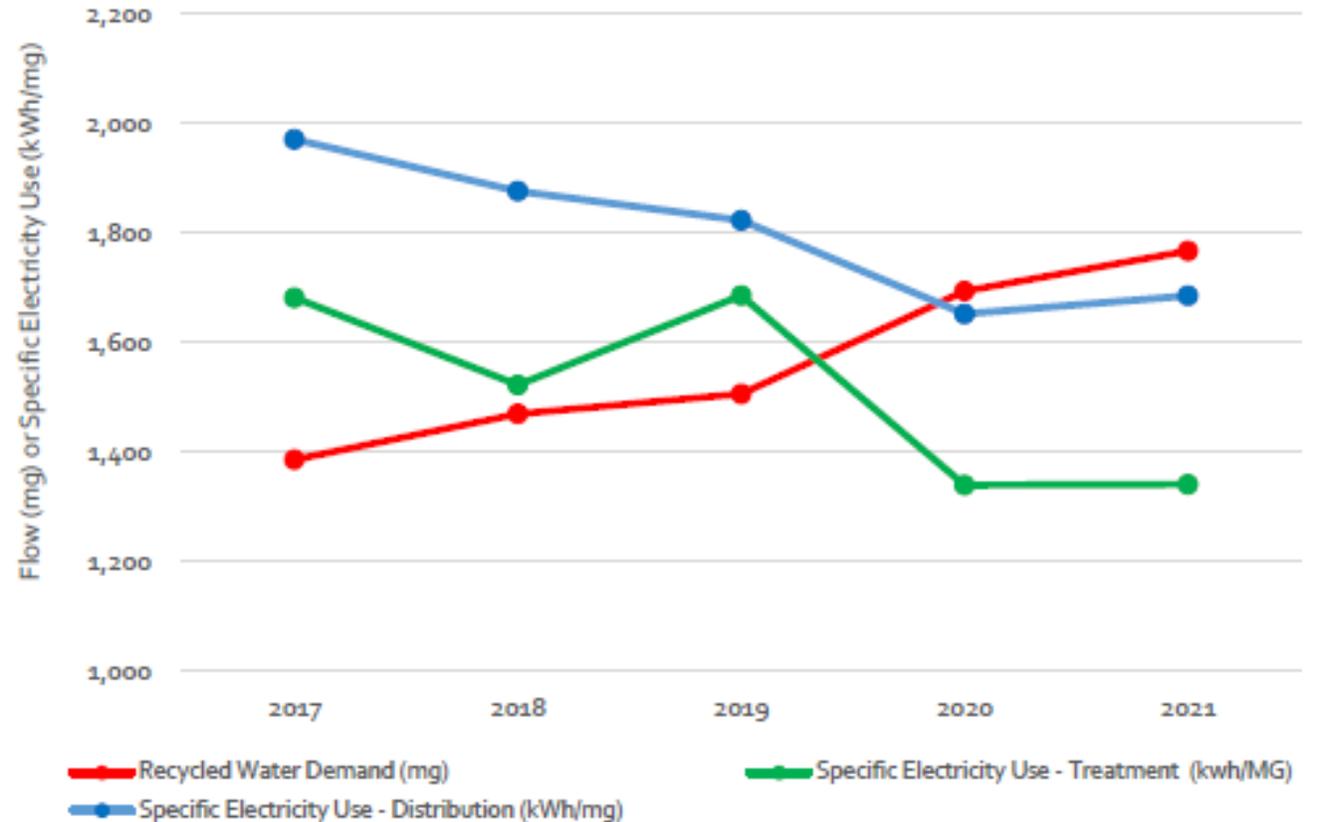


# DERWA Recycled Water Treatment Plant

	Before Improvements (2016)	After Improvements (2021)
Annual Electricity Use	1,266,777 kWh	1,521,982 kWh
Annual Volume Treated	1,168 MG	1,880 MG
	<b>1,085 kWh/MG</b>	<b>810 kWh/MG</b>

# Energy Efficiency Report

- Energy usage per MG decreased over a five-year period resulting in 15 percent **less** distribution energy use.



# Distribution System Pump Efficiency

## PSR 1

- No recommendations

## R200A

- Pump 2 operates inefficiently

## R200B

- Pumps operate at near max speed

# Potential Partnerships on Energy Projects

- Purchase of renewable energy produced by others
- Cost sharing for new renewable energy production
- Use of land owned by others for Photovoltaic (PV) installations





## Purchase Renewable Energy Produced by Others

---

- Community Choice Aggregate - Ava Community Energy



# DSRSD - Cogeneration

- DSRSD facilities will utilize all biogas generated power output as currently sized.



# Land Leasing for Solar Arrays

- DERWA owned and constructed PV facilities on DSRSD or EBMUD land
- Modeled Amador Reservoir site (EBMUD)
- Renewable Energy Self-Generation Credit Transfer RES-BCT no longer viable

# Summary

- Recycled Water Treatment Plant is operating at peak efficiency
- Recycled Water Distribution System: R200A and R200B require future maintenance (planned)
- DERWA switch from PGE to Ava Community Energy (complete)
- Contributing to DSRSD's cogeneration upgrade project is not feasible
- Land leasing for solar is not feasible due to RES-BCT program unavailability



Dublin San Ramon  
Services District  
*Water, wastewater, recycled water*

# Questions?

Dan Gill, Operations Director

[dgill@dsrsd.com](mailto:dgill@dsrsd.com)