



AGENDA

August 24, 2021

PUBLIC UTILITIES COMMISSION MEETING

6:00 P.M.

Council Chambers
311 Vernon Street
Roseville, California

The meeting may be viewed on Comcast channel 14, Consolidated Communications channel 73, and AT&T U-Verse. City Council meetings are also video streamed live and are available on the City's website and YouTube channel.

Members of the public may offer public comment by phone:

Dial in Phone Number: 916-774-5353.

If you need disability-related modification or accommodation to participate in this meeting, please contact:

Voice: 916-774-5200, TDD: 916-774-5220. Requests must be made as early as possible.

THE CITY OF ROSEVILLE WELCOMES YOUR PARTICIPATION

If an agenda item is open to public comment, such public comment shall be addressed to the chair of the meeting.

Public Comment - Speakers have three minutes under Public Comment to speak on issues that are not listed on the agenda and are within the City's jurisdiction. The Brown Act does not permit any action or discussion on items not listed on the agenda.

Consent Calendar - If applicable, the Consent Calendar consists of routine items that may be approved by one motion. Any person can remove an item from the Consent Calendar to be discussed separately.

Agenda Items - Speakers have five minutes to address items that are listed on the agenda.

Americans with Disabilities Act - Notify the City Clerk or Secretary at least 72 hours in advance if special assistance is required to participate in a meeting including the need of auxiliary aids or services.

Audio/Visual Presentations - If making a presentation regarding an agenda item, audio/visual materials must be submitted to the City Clerk or Secretary at least 72 hours in advance.

Roseville City Clerk 311 Vernon Street, Roseville, CA 916-774-5200 TDD 916-774-5220

1. CALL TO ORDER

2. ROLL CALL

3. PLEDGE OF ALLEGIANCE

4. PUBLIC COMMENTS

5. MINUTES

5.1. Approval of July 27, 2021 Minutes

6. REQUESTS/PRESENTATIONS

6.1. Roseville Electric Utility Monthly Update

Report by Electric Utility Assistant Directors, Shawn Matchim and Todd White, summarizing the monthly status of Electric Utility issues, for information.

6.2. Roseville Electric Energy Risk Management Overview

Presentation by Electric Risk and Compliance Supervisor, Petra Wallace, giving an overview of Roseville Electric Utility Energy Risk Management, for information.

6.3. Environmental Utilities Monthly Update

Report by Environmental Utilities Assistant Director, Sean Bigley, summarizing the monthly status of Environmental Utilities activities, for information.

6.4. Environmental Utilities Recycled Water Program Update

Presentation by Process Engineer, Todd Jordan, with an update on the Recycled Water Program, for information.

7. BOARD MEMBER / COMMISSIONER / STAFF REPORT

8. ADJOURNMENT



PUBLIC UTILITIES COMMISSION COMMUNICATION

Title: Approval of July 27, 2021 Minutes

Contact:

Meeting Date: 8/24/2021

Item #: 5.1.

ATTACHMENTS:

Description

July 27, 2021 Minutes



MINUTES

July 27, 2021

PUBLIC UTILITIES COMMISSION MEETING

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1. CALL TO ORDER

Vice Chair Webb called the meeting to order at 6:00 p.m.

2. ROLL CALL

Present: Commissioners Bielski, De Lacy, DeMarchi, Knox, Maisch, Webb

Absent: Commissioner Granger

3. PLEDGE OF ALLEGIANCE

The Pledge of Allegiance was led by Commissioner Knox.

4. PUBLIC COMMENTS

No public comment received.

5. MINUTES

5.1. Approval of June 22, 2021 Minutes.

Motion by Commissioner De Lacy, seconded by Commissioner Knox, Approve Motion. The Motion Passed.

Roll call vote: Ayes: Commissioners De Lacy, Knox, Maisch, Webb

Abstained: Commissioners Bielski, DeMarchi

Absent: Commissioner Granger

6. REQUESTS/PRESENTATIONS

6.1. Election of Chair and Vice Chair

In accordance with the City's Boards and Commissions Administrative Standards, the Chair and Vice Chair shall be selected annually by the Commission. The selected Chair and Vice Chair will assume their positions at the next regular meeting in August.

Motion by Commissioner Knox, seconded by Commissioner De Lacy, to appoint Commissioner Webb as Chair of the Roseville Public Utilities Commission.

Ayes: Commissioners Bielski, De Lacy, DeMarchi, Knox, Maisch, Webb

Absent: Commissioner Granger

Motion by Commissioner Maisch, seconded by Commissioner DeMarchi, to appoint Commissioner Knox as Vice Chair of the Roseville Public Utilities Commission.

Ayes: Commissioners Bielski, De Lacy, DeMarchi, Knox, Maisch, Webb

Absent: Commissioner Granger

No public comment received.

6.2. Public Utilities Commission - Purpose, Roles and Responsibilities

Informational presentation by Electric Utility Director, Michelle Bertolino, Environmental Utilities Director, Richard Plecker, and Sr. Deputy City Attorney, Joe Mandell, on the background, purpose, roles and responsibilities of a Roseville Public Utilities Commissioner.

No public comment received.

6.3. Roseville Electric Utility Monthly Update

Report by Electric Utility Director, Michelle Bertolino, summarizing the Monthly status of Electric Utility issues, for information.

No public comment received.

6.4. Roseville Electric Customer Programs and Services Overview

Presentation by Electric Customer Solutions Supervisor, David Bradford, summarizing Roseville Electric Utility Customer Programs and Services, for information.

No public comment received.

6.5. Environmental Utilities Monthly Update

Report by Environmental Utilities Director, Richard Plecker, summarizing the monthly status of Environmental Utilities activities, for information.

Environmental Utilities Director, Richard Plecker, stated that the next presentation on Water Efficiency Division Overview by Water Conservation Specialist, John Shannon, would also cover the Environmental Utilities Monthly Update.

No public comment received.

6.6. Environmental Utilities Water Efficiency Division Overview

Presentation by Water Conservation Administrator, Bobby Alvarez, with an overview of the Water Efficiency operation, for information.

Bobby Alvarez was unable to attend tonight's meeting. Water Conservation Specialist, John Shannon, provided the Environmental Utilities Water Efficiency Division Overview.

No public comment received.

7. BOARD MEMBER / COMMISSIONER / STAFF REPORT

Commissioner Maisch reported that he met with Roseville Electric staff for an update on the Electric Rate Case, and he stated that it was very interesting, and informative.

Commissioners Bielski, De Lacy, DeMarchi, Knox and Webb stated that they also met with Roseville Electric staff for an update on the Electric Rate Case.

Sr. Deputy City Attorney, Joe Mandell, clarified that the Electric Rate Case update meetings with Commissioners were held in accordance with the Brown Act, with one or two commissioners attending each meeting.

No public comment received.

8. ADJOURNMENT

The Public Utilities Commission meeting was adjourned at 8:03 p.m.

Motion to adjourn by Commissioner DeLacy, seconded by Commissioner Knox, approve the Motion. The Motion Passed.

Roll call vote: Ayes: Commissioners Bielski, DeLacy, De Marchi, Knox, Maisch, Webb.

Absent: Commissioner Granger

DRAFT



PUBLIC UTILITIES COMMISSION COMMUNICATION

Title: Roseville Electric Utility Monthly Update
Contact:

Meeting Date: 8/24/2021
Item #: 6.1.



PUBLIC UTILITIES COMMISSION COMMUNICATION

Title: Roseville Electric Energy Risk Management Overview

Contact:

Meeting Date: 8/24/2021

Item #: 6.2.

ATTACHMENTS:

Description

Roseville Electric Energy Risk Management



Electric Utility Energy Risk Management Program

Petra Wallace – Electric Risk and Compliance Supervisor



What is risk management?

- What is the probability of experiencing a loss due to an uncertain or unplanned event?
- What is the magnitude of the potential loss?
- How can we prevent or mitigate the potential loss?



Examples of risks

- Commodity Price Risk
- Volumetric Risk
- Operational Risk
- Counterparty Risk
- Regulatory and Environmental Risk

Why have an Energy Risk Management Program?

- Risk management is a key issue for electric utilities
- Owning and operating an electric utility has significant financial risk
- We buy and sell large amounts of energy regularly
- Energy prices and supply can be unpredictable and volatile
- Our quality of life and economic vitality is dependent upon available and affordable electricity

Energy Risk Management Process

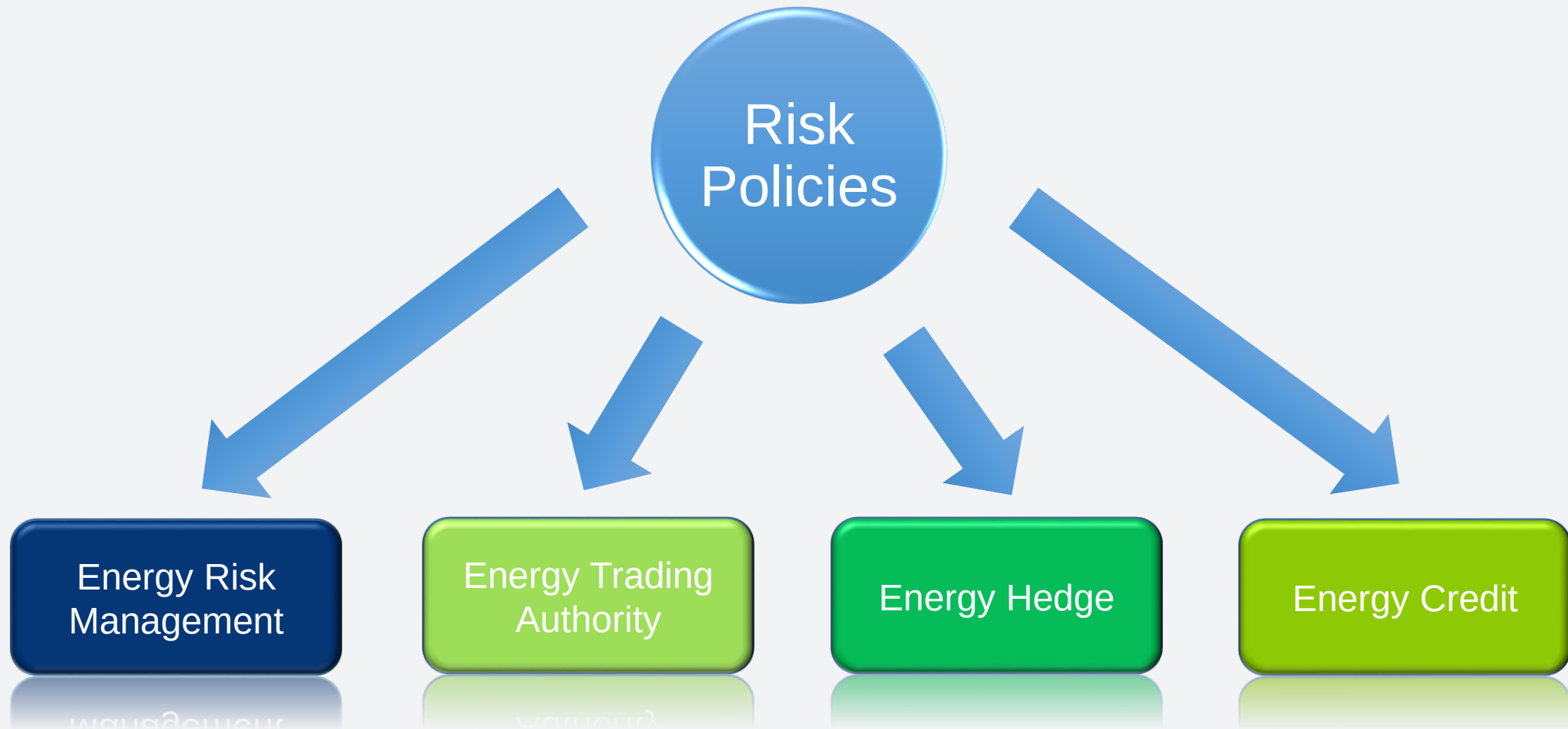


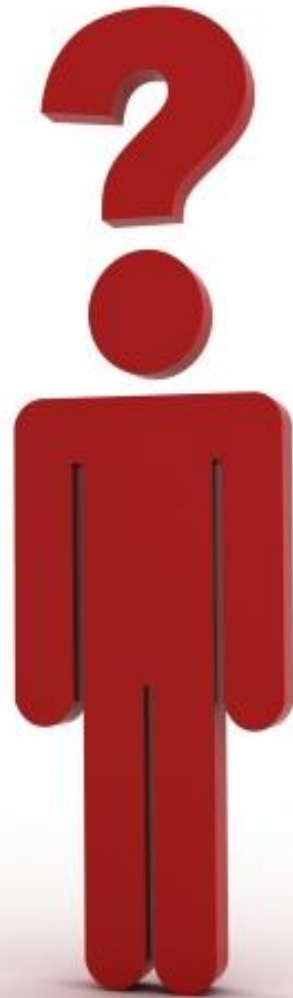
Risk Tolerance

Risk Tolerance sets a limit beyond which additional risk should not be taken



Risk Policies





Energy Risk Management Policy

- Sets energy risk management objectives
- Establishes risk governance structure and responsibilities
- Links risk management to key business processes



Risk Management Governance Structure

- Risk Oversight Committee
 - Established by City Council
 - Additional oversight in the City's risk governance
 - Review and recommend risk policy changes
 - Review risk policy violations and compliance violations with NERC

A complex financial chart with multiple data series. It includes a blue line graph at the top, a green line graph in the middle, and a bar chart at the bottom. Various numerical values are scattered across the chart, such as 31.012, 63.772, 69.928, 44.870, 20.556, 12.002, and 70.117. A bright light effect is visible in the center of the chart area.

Energy Trading Authority Policy

- Who can trade?
- What products can they trade?
- Where can they trade commodities?
- How long can they trade?

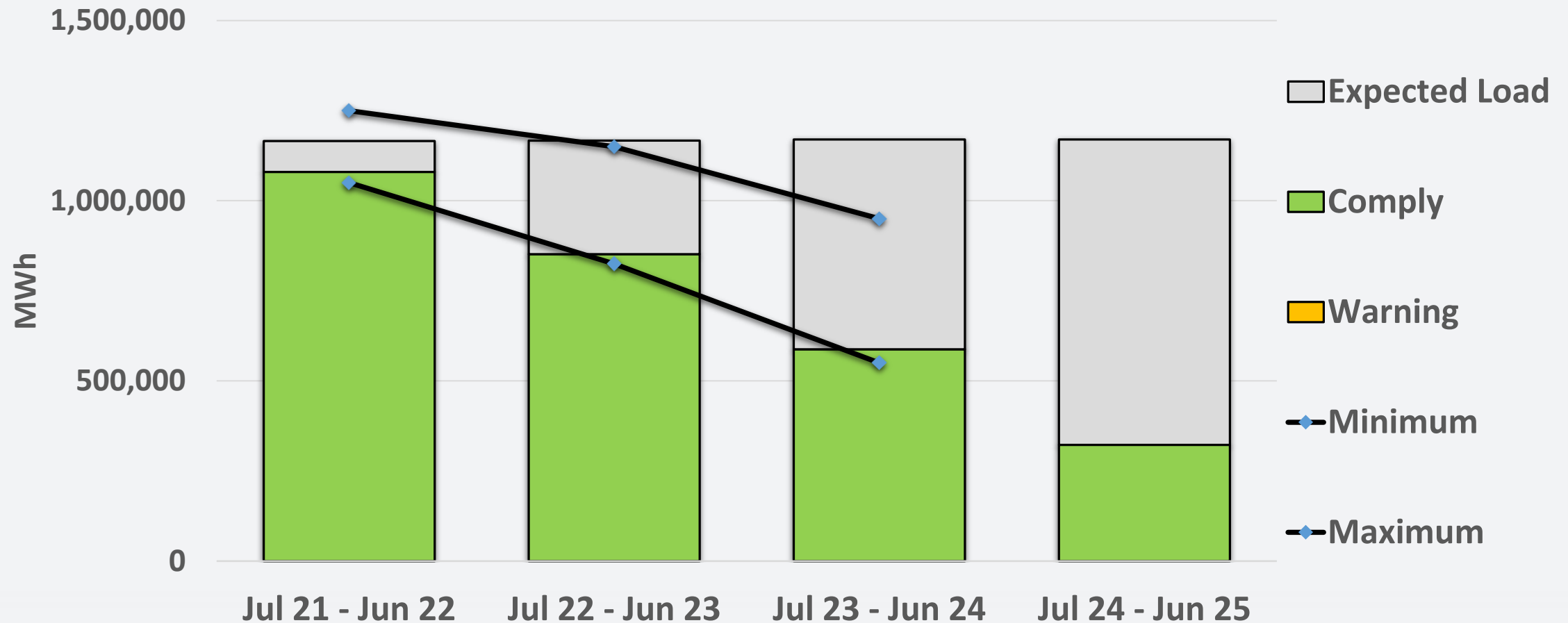
Energy Hedge Policy

- Hedge: a transaction that reduces the likelihood of adverse price or cost fluctuations



Energy Hedge Policy

Fixed Price Energy Policy





Energy Credit Policy

- Defines how credit limits are set for each counterparty
- Defines who can set the credit limits
- Manages counterparties by evaluating and assigning lines of credit to them

Why all these policies?







PUBLIC UTILITIES COMMISSION COMMUNICATION

Title: Environmental Utilities Monthly Update

Contact:

Meeting Date: 8/24/2021

Item #: 6.3.



PUBLIC UTILITIES COMMISSION COMMUNICATION

Title: Environmental Utilities Recycled Water Program Update

Contact:

Meeting Date: 8/24/2021

Item #: 6.4.

ATTACHMENTS:

Description

Environmental Utilities Recycled Water Program Update



Recycled Water Program Update

Todd Jordan, Process Engineer

August 24, 2021

Recycled Program History

- 1993 – Recycled Water Master Plan
- 1994 – 1st RW Pump Station
- 1995 – 4 miles sewer force main converted to RW distribution
- 1997 – Obtained Master Reclamation Permit
- 1997 – 1st RW delivery to Woodcreek GC
- 1998 – Adopted RW Ordinance; Rules & Regulations
 - No connection fees
 - Rate = 50% of potable water rate
- 2002 – North Zone Pump Station
- 2004 – PGWWTP/RW Supply
- 2007 – West Roseville Pump Station
- 2010 – Converted 14,000 ft of 30-in force main to RW distribution
- 2015 – Construction / residential programs
- 2019 – Expansion alternatives analysis
- 2020 – Expansion feasibility study
- 2021 – Adopted rate increase = 60% of potable water rate

Why Recycled Water?



Surface Water

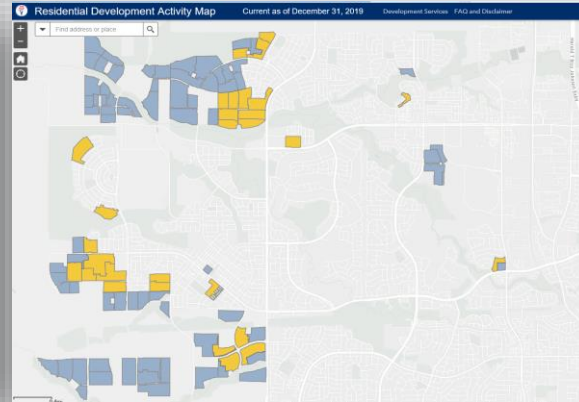
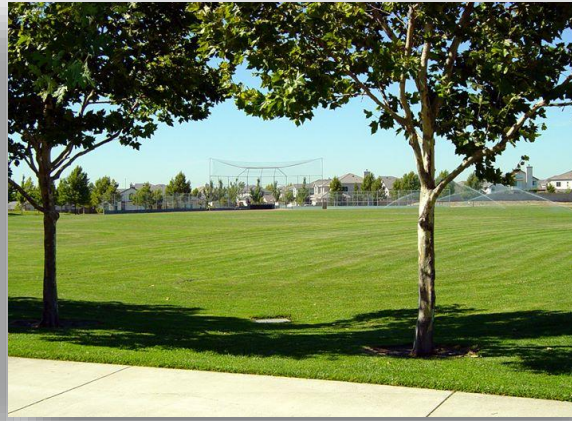


Groundwater



Recycled Water

- Part of water supply portfolio
- Stable and drought-proof resource
- Require for new development irrigation
- Conservation friendly
- Less costly to end user



Recycled Water Non-Potable Uses Irrigation



Recycled Water Non-Potable Uses Construction

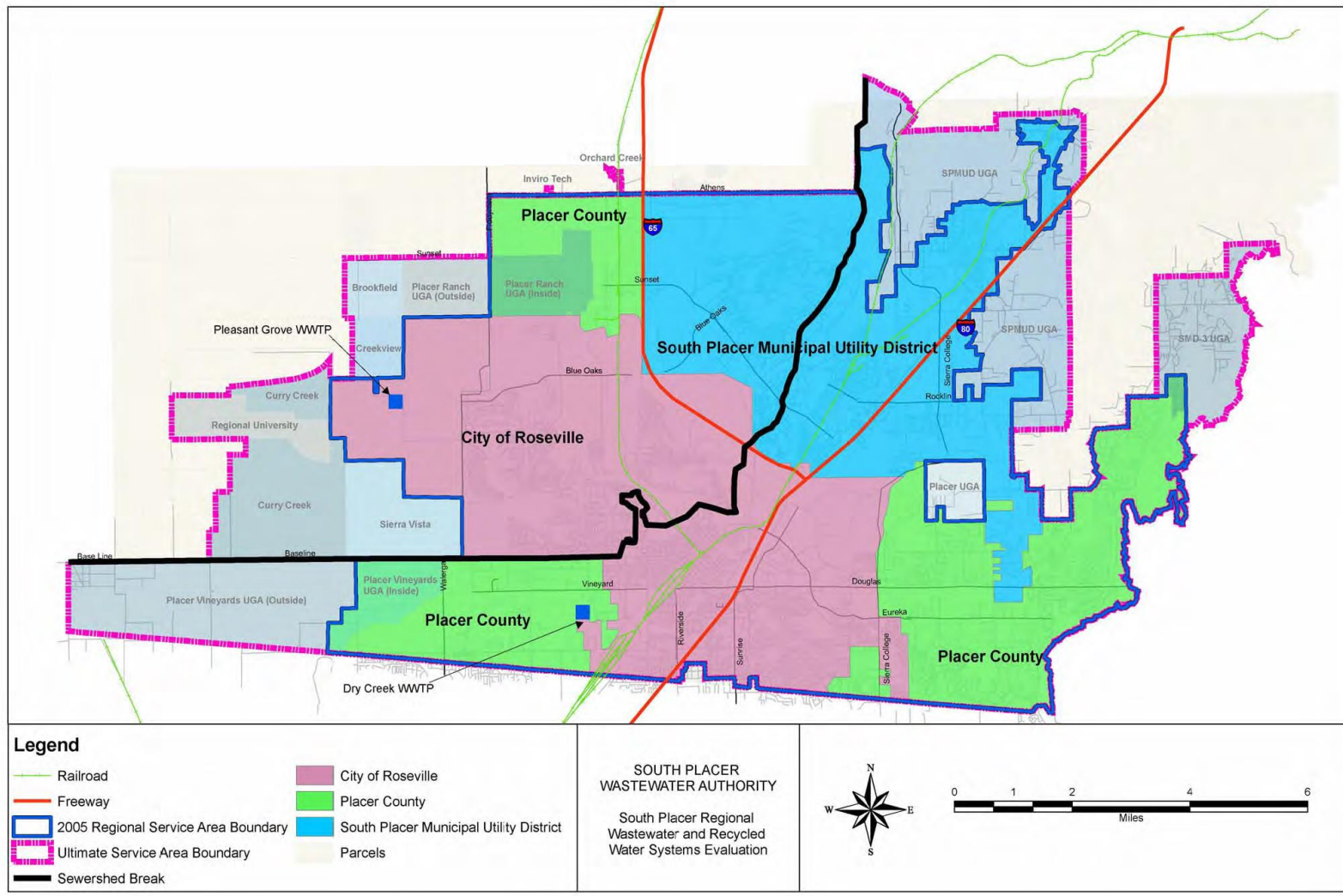


Recycled Water Non-Potable Uses
Industrial & Agricultural



Recycled Water Non-Potable Uses Residential

Recycled Water Supply





Pleasant Grove WWTP



Dry Creek WWTP

RW Supply

- Pleasant Grove WWTP
 - 8.4 MGD ADWF
 - No storage onsite
- Dry Creek WWTP
 - 8.1 MGD ADWF
 - Onsite storage
 - Repurposed CCB
 - 4 MGD in-stream requirement
- Potable backup
 - DCWWTP, NZPS, & WRPS
 - Golf course-Sun City, Woodcreek, Diamond Oaks

Recycled Water Demand

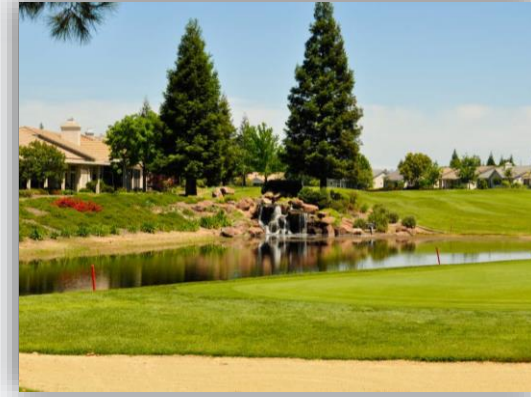
- 2020 Data
 - Approximately 135 connections
 - Individual demands between 20-1800 gpm
 - 8.3 MG July 2020 peak day demand
 - 13,500 gpm peak demand
 - Demands can surpass WWTP supply of one facility
 - Demand peaks shaved by utilizing City and customer storage



West Roseville Pump Station



Diamond Oaks Golf Course



Sun City Golf Course



North Zone Pump Station



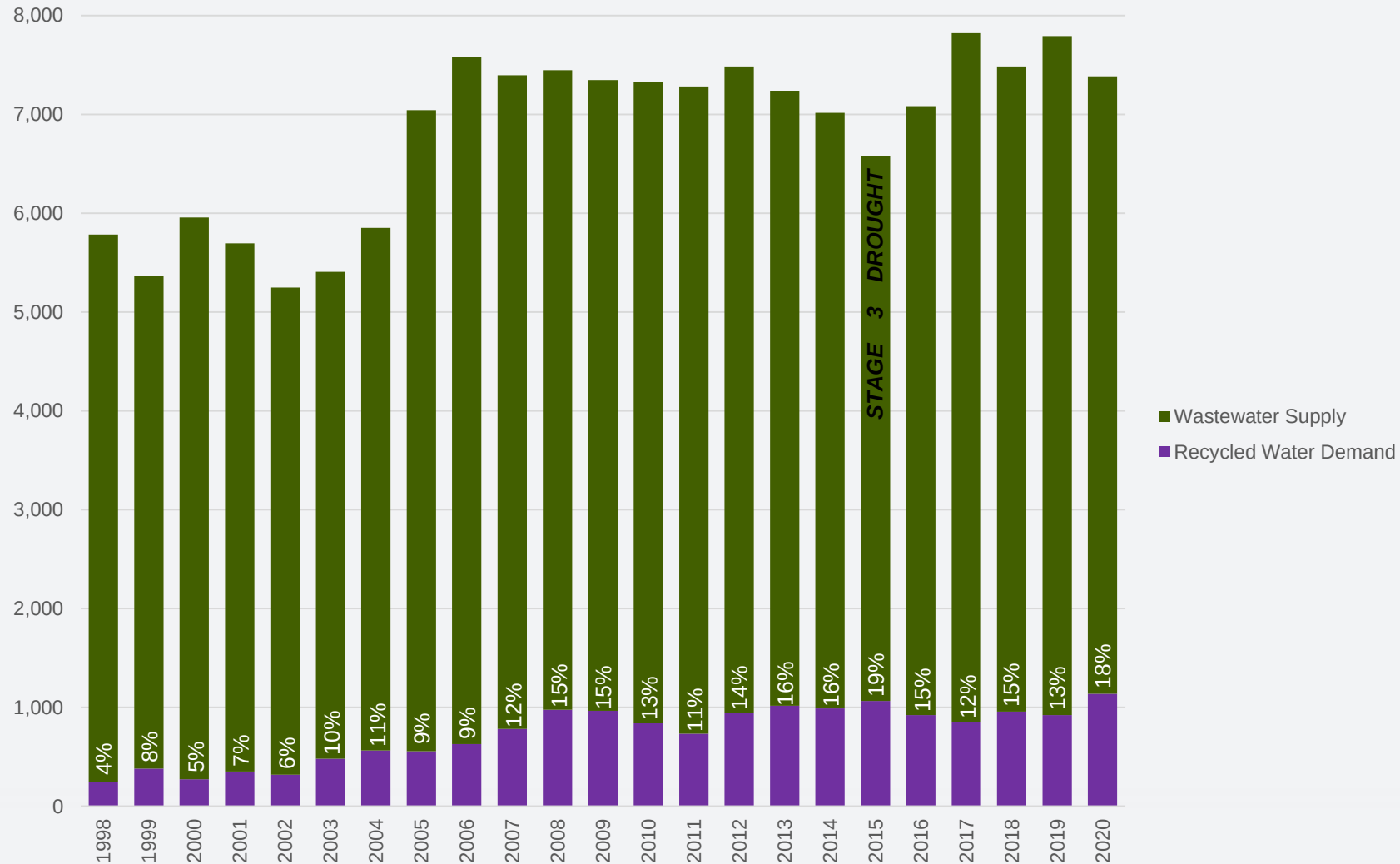
Woodcreek Oaks Golf Course



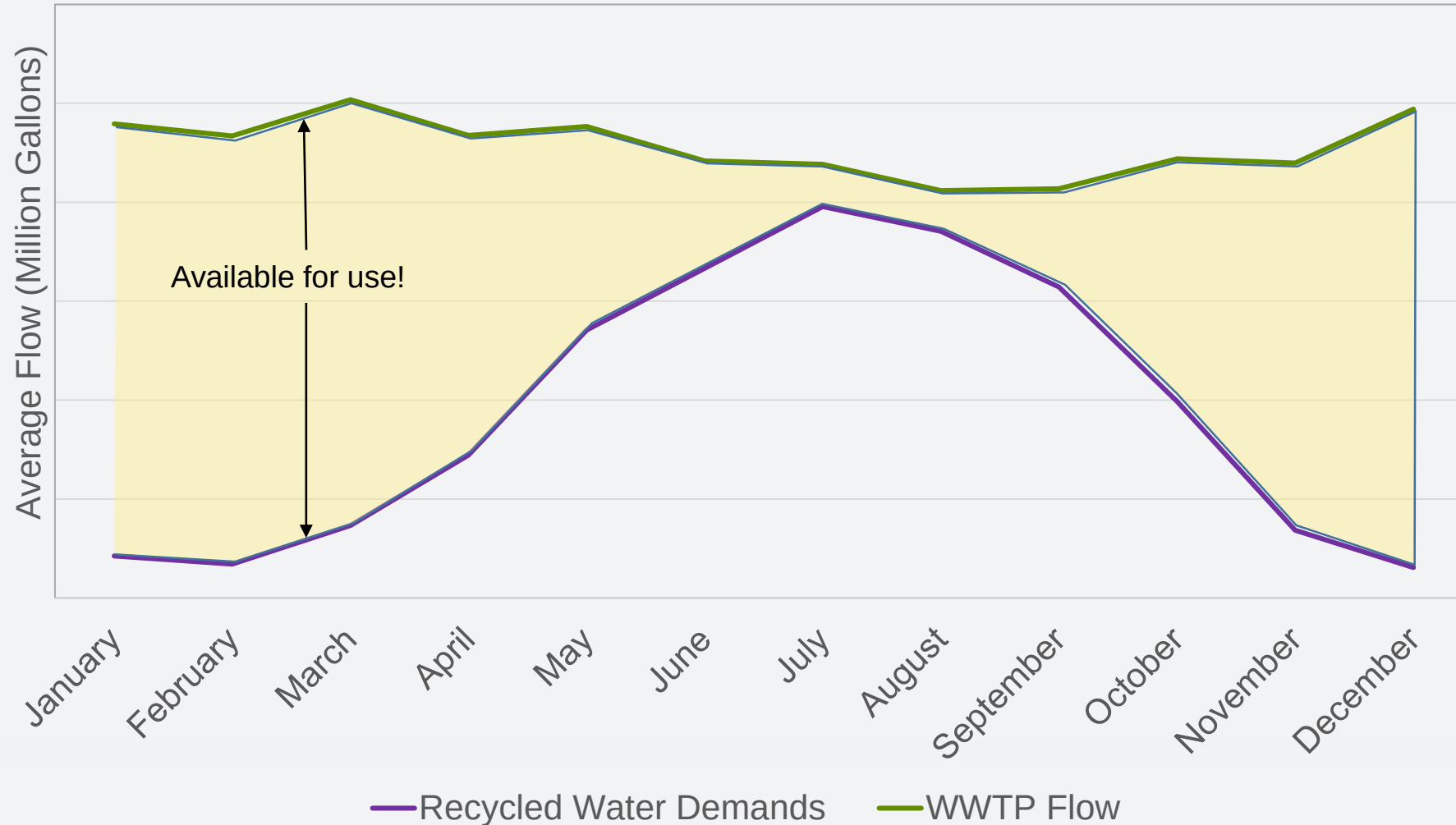
Morgan Creek Golf Course

Recycled Water Storage – 11.5 Million Gallons

Supply vs. Demand



Supply and demand of recycled water for irrigation



RW Expansion Alternatives Analysis and Feasibility Study

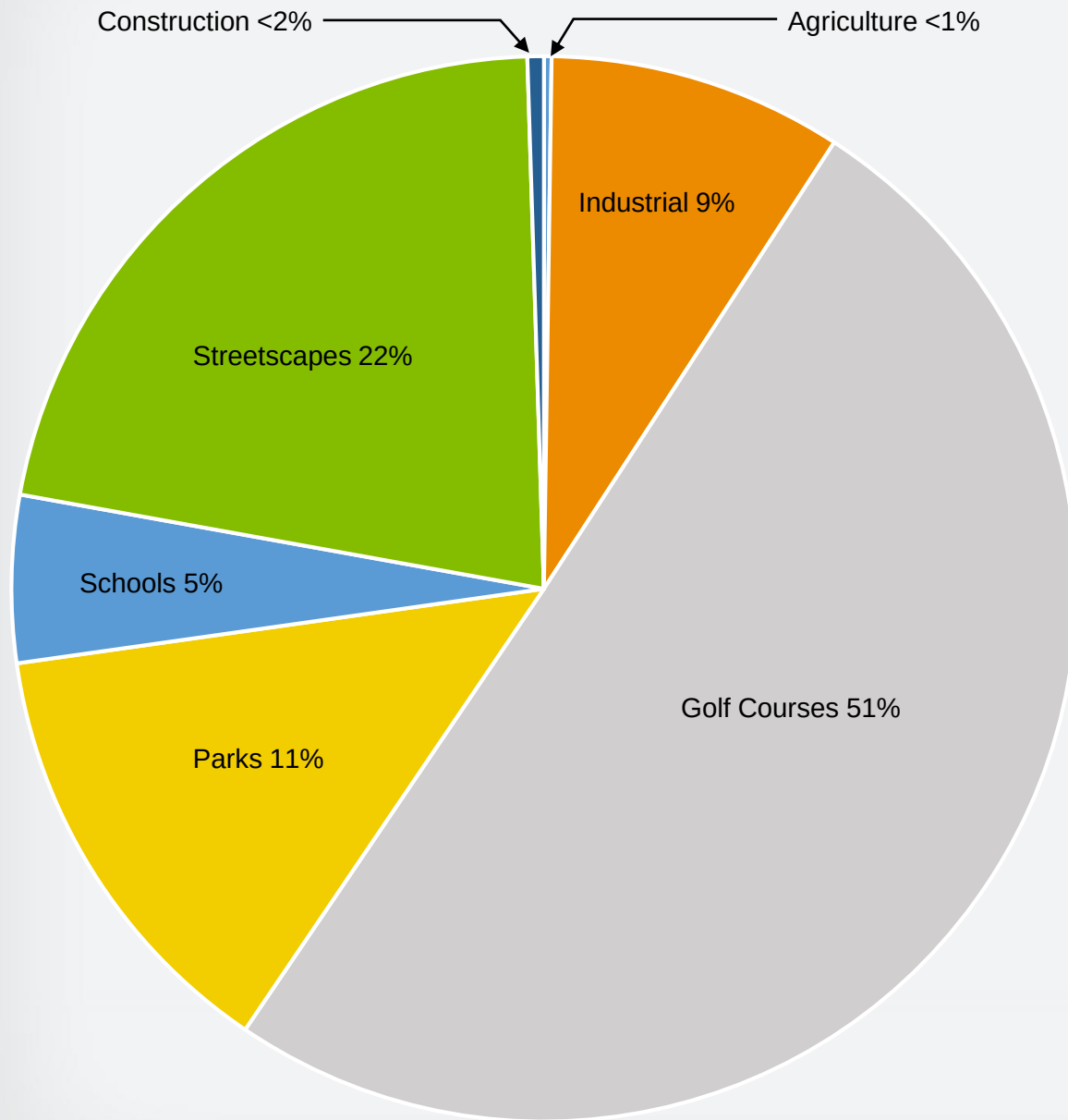
Option ID	Option Name	Water Supply Reliability	Regional Benefits	Financial Feasibility	Engineering Feasibility	Local Control and Demand Reliability	Environmental Permitting and Regulatory	Social Acceptability	Resourcing	Relative Scores										Overall Rating	Weighted Rating
										Water Supply Reliability	Regional Benefits	Financial Feasibility	Engineering Feasibility	Local Control and Demand Reliability	Environmental Permitting and Regulatory	Social Acceptability	Resourcing	Water Supply Reliability	Regional Benefits		
1	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
2	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
3	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
4	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
5	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
6	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
7	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
8	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
9	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
11	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
12	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
13	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
14	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
15	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
16	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
17	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
18	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
19	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
20	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
21	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
22	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
23	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
24	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
25	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
26	Expand recycled water program to include all city of Roseville	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0



- 26 alternatives evaluated
- Evaluation Criteria
 - Water supply reliability and portfolio diversity
 - Regional benefits
 - Year-round use
 - Financial feasibility
 - Engineering feasibility
 - Local control and demand reliability
 - Environmental permitting and regulatory
 - Social acceptability
 - Resourcing
- Alternative uses considered:
 - Irrigation of parks, streetscapes, residential, construction
 - Local industrial
 - Irrigation outside City limits
 - Expanded service area
 - Surface and ground water augmentation
 - Drinking water supply

Operating Goals

- Balance demands between PG and DC WWTP's
- Maintain system redundancy
- Completely fill all reservoirs with a 4-hour buffer
- Maintain appropriate pressure to direct-tap customers
- Minimize aesthetic effect of large drawdown at golf course ponds
- Public education and outreach



2020 Summary

- Volume served
 - 1,125 million gallons served
 - 3,450 acre-feet
- Construction use mostly West Roseville

Questions

