



AGENDA

April 26, 2022

PUBLIC UTILITIES COMMISSION

6:00 P.M.

Council Chambers

311 Vernon Street

Roseville, CA

www.roseville.ca.us/CORTV

The meeting may be viewed on Comcast channel 14, Consolidated Communications channel 73, and AT&T U-Verse. Public Utilities Commission meetings are also video streamed live on the City's website at Roseville.ca.us/watch and Roseville.ca.us/agenda, and the City's You Tube channel at youtube.com/CityofRosevilleCa.

If you need a 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 March 22, 2022 Minutes

6. REQUESTS/PRESENTATIONS

6.1. Roseville Electric Utility Monthly Update

Report by Electric Utility Director, Dan Beans, summarizing the monthly status of Electric Utility activities, for information.

6.2. Roseville Electric Reliability Overview

Presentation by Electric Power Engineering Manager, Chris Porter, with an overview of Roseville Reliability, for information.

6.3. Environmental Utilities Monthly Update

Report by Principal Engineer, Bryan Buchanan, summarizing the monthly status of Environmental Utilities activities, for information.

6.4. Environmental Utilities Wastewater Utility Overview

Presentation by Principal Engineer, Bryan Buchanan, with an overview of Wastewater Utility operations, for information.

7. BOARD MEMBER / COMMISSIONER / STAFF REPORT

8. ADJOURNMENT



PUBLIC UTILITIES COMMISSION COMMUNICATION

Title: Approval of March 22, 2022 Minutes

Contact:

Meeting Date: 4/26/2022

Item #: 5.1.

ATTACHMENTS:

Description

Approval of March 22, 2022 Minutes



MINUTES

March 22, 2022

PUBLIC UTILITIES COMMISSION

6:00 p.m.

Council Chambers

311 Vernon Street

Roseville, California

www.roseville.ca.us/CORTV

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1. CALL TO ORDER

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

2. ROLL CALL

Present: Commissioners De Lacy, DeMarchi, Granger, Knox, and Webb

Absent: Commissioner Bielski

Commissioner Maisch arrived to the meeting at 6:15pm.

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 February 22, 2022 Minutes

Motion by Commissioner DeLacy, seconded by Commissioner De Marchi, Approve Motion. The Motion Passed.

Roll call vote: Ayes: Commissioners DeLacy, De Marchi, Granger, Knox, and Webb

Absent: Commissioner Bielski and Commissioner Maisch

6. REQUESTS/PRESENTATIONS

6.1. Roseville Electric Utility Monthly Update

Report by Electric Utility Director, Dan Beans, summarizing the monthly status of Electric Utility issues, for information.

No public comment received.

6.2. Roseville Electric Integrated Resources Plan (IRP) Introduction

Presentation on Roseville Electric Integrated Resources Plan, by Electric Power Supply and Portfolio Administrator, Bill Forsythe, for information.

No public comment received.

6.3. Environmental Utilities Monthly Update

Report by Refuse and Stormwater Manager, Devin Whittington, summarizing the monthly status of Environmental Utilities activities, for information.

No public comment received.

7. BOARD MEMBER / COMMISSIONER / STAFF REPORT

There were no comments made by the Commissioners.

8. ADJOURNMENT

The Public Utilities Commission meeting was adjourned at 6:24 p.m.

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

Roll call vote: Ayes: Commissioners DeLacy, De Marchi, Granger, Knox, Maisch and Webb

Absent: Commissioner Bielski



PUBLIC UTILITIES COMMISSION COMMUNICATION

Title: Roseville Electric Utility Monthly Update

Contact:

Meeting Date: 4/26/2022

Item #: 6.1.

ATTACHMENTS:

Description

Roseville Electric Utility Monthly Update



APPA 2022 Lineworkers Rodeo

Dan Beans, Roseville Electric Utility Director

20th Annual Public Power Lineworkers Rodeo



- March 25-26 in Austin, Texas
- Over 400 participants from across the public power industry
- Demonstrates skill and knowledge while competing for professional recognition
- Events judged on safety, work practices, neatness, ability, equipment handling, and timely completion.

Roseville Electric Utility Results

- Journeyman team of Phil Hartnett, Kyle Giesser, and Rob Myles
 - 1st place: 4kV Crossarm Change Out
 - 3rd place: Hurtman Rescue
- Apprentice team of Matthew Barlow, Jorge Diaz, William Kupfer, and Corey Lenski
 - Matthew Barlow
 - 2nd place: Hurtman Rescue





Roseville Electric Utility competitors, supervisors and judges with APPA President & CEO Joy Ditto

National Lineworker Appreciation Day

April 18, 2022

Since 1912, the City of Roseville has owned and operated its own electric utility.

Our primary purpose is to provide highly reliable electricity to the businesses and residents of Roseville.



Our team
has **22**
lineworkers



They maintain
over **4,000**
power poles



and **948**
miles of 60 &
12 kV lines



PUBLIC UTILITIES COMMISSION COMMUNICATION

Title: Roseville Electric Reliability Overview

Contact:

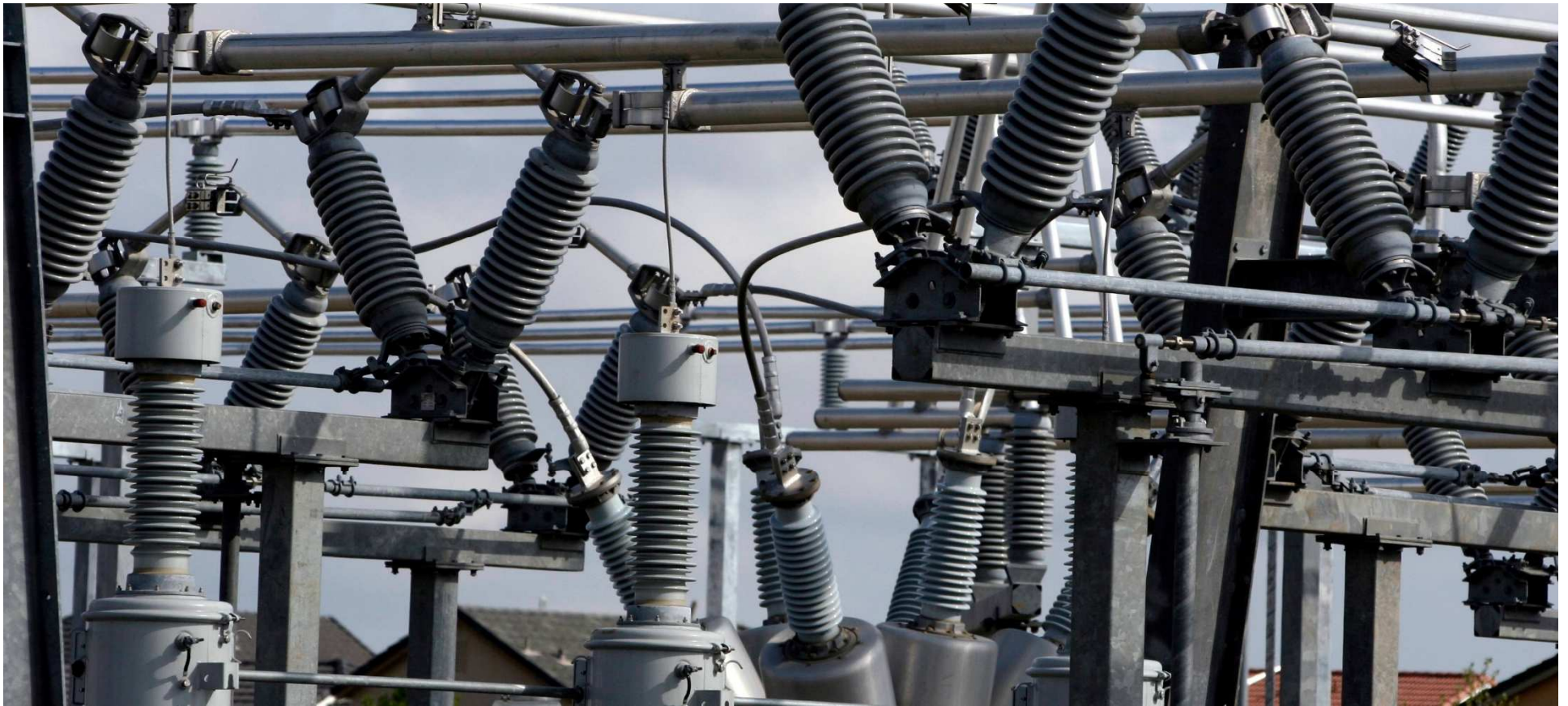
Meeting Date: 4/26/2022

Item #: 6.2.

ATTACHMENTS:

Description

Roseville Electric Reliability Overview



Roseville Electric System Reliability

Chris Porter, Power Engineering Manager

Presentation Overview

- Electric system reliability definition
- System reliability metrics
- Roseville Electric's system performance
- Causes of unscheduled outages
- Outage mitigation
- Reliable system design

What Does Reliability Mean?

The ability of an electric power system to withstand various conditions while delivering safe and consistent electric service to customers



Electric Key Performance Indicators

Industry standard metrics used to evaluate reliability:

Outage frequency:

SAIFI – **S**ystem **A**verage Interruption
Frequency **I**ndex

Outage length:

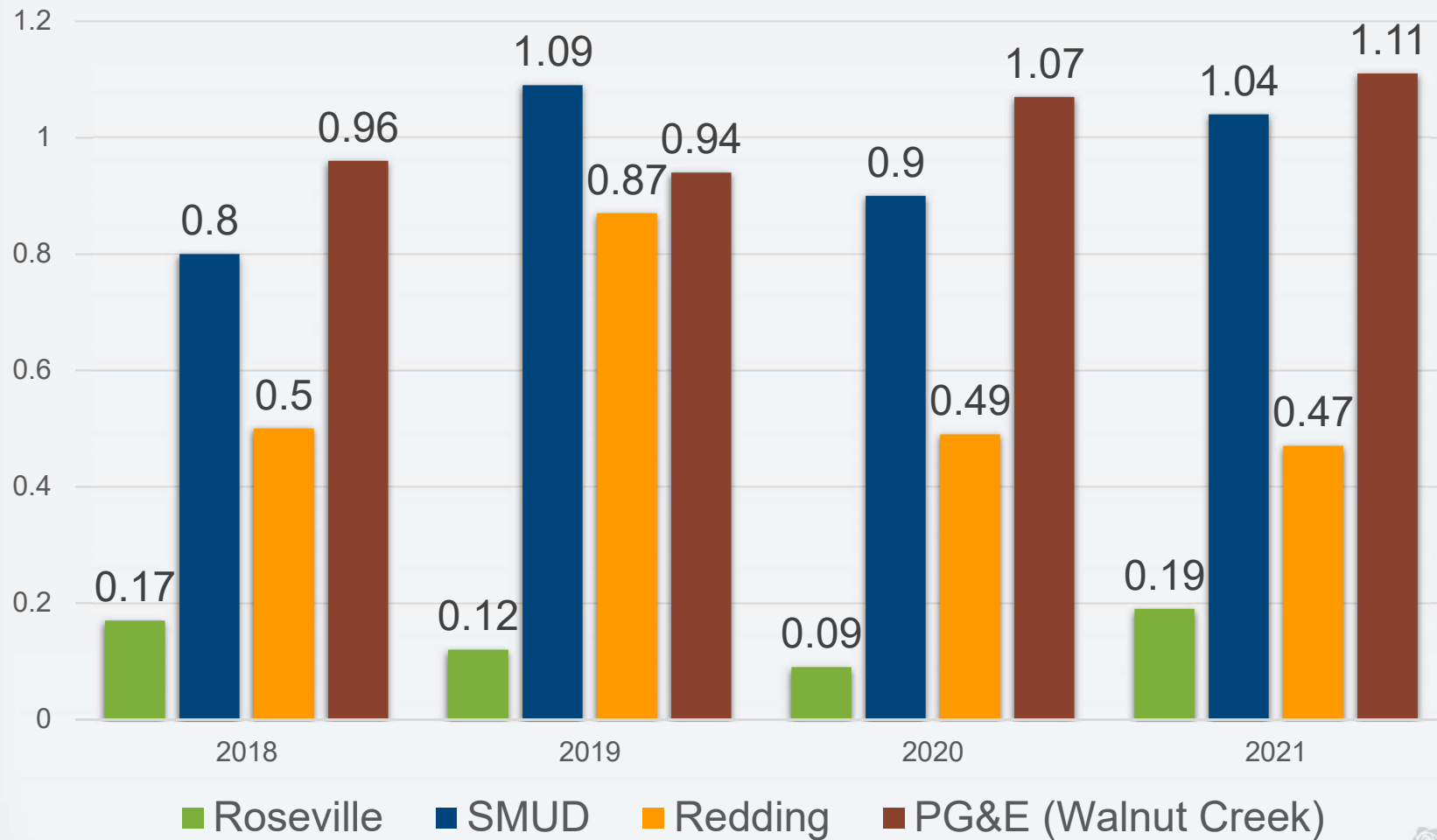
SAIDI – **S**ystem **A**verage Interruption
Duration **I**ndex

Average Outage Frequency

The System Average Interruption Frequency Index (SAIFI) is a numerical way to measure the average number of times outages occur for all customers.

For 2021, our SAIFI shows our average customer experiences an outage once every 5.3 years (0.19 outages per year).

'18-'21 Average Outage Frequency, SAIFI

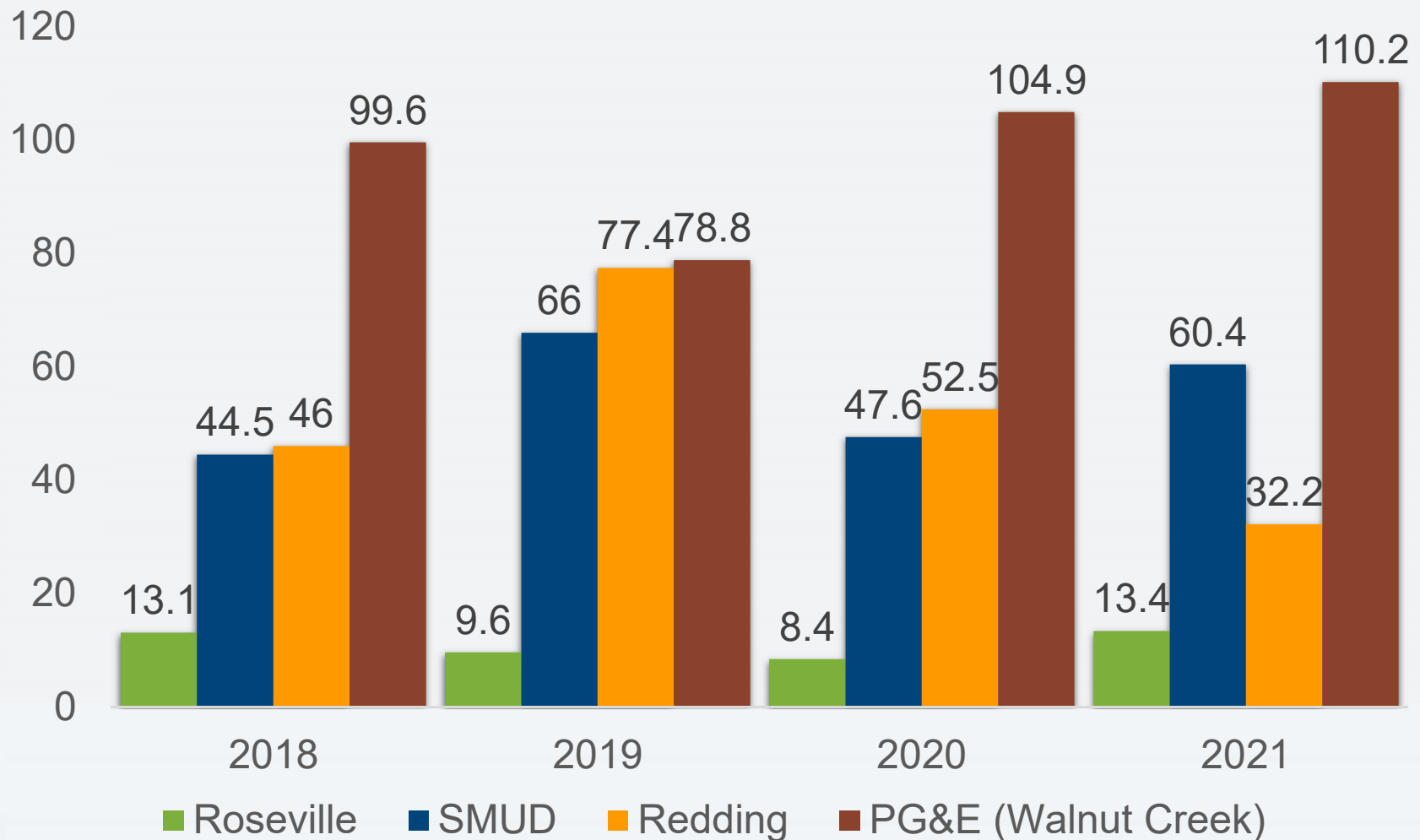


Average Outage Duration

The System Average Interruption Duration Index (SAIDI) is the average sustained outage time for all customers.

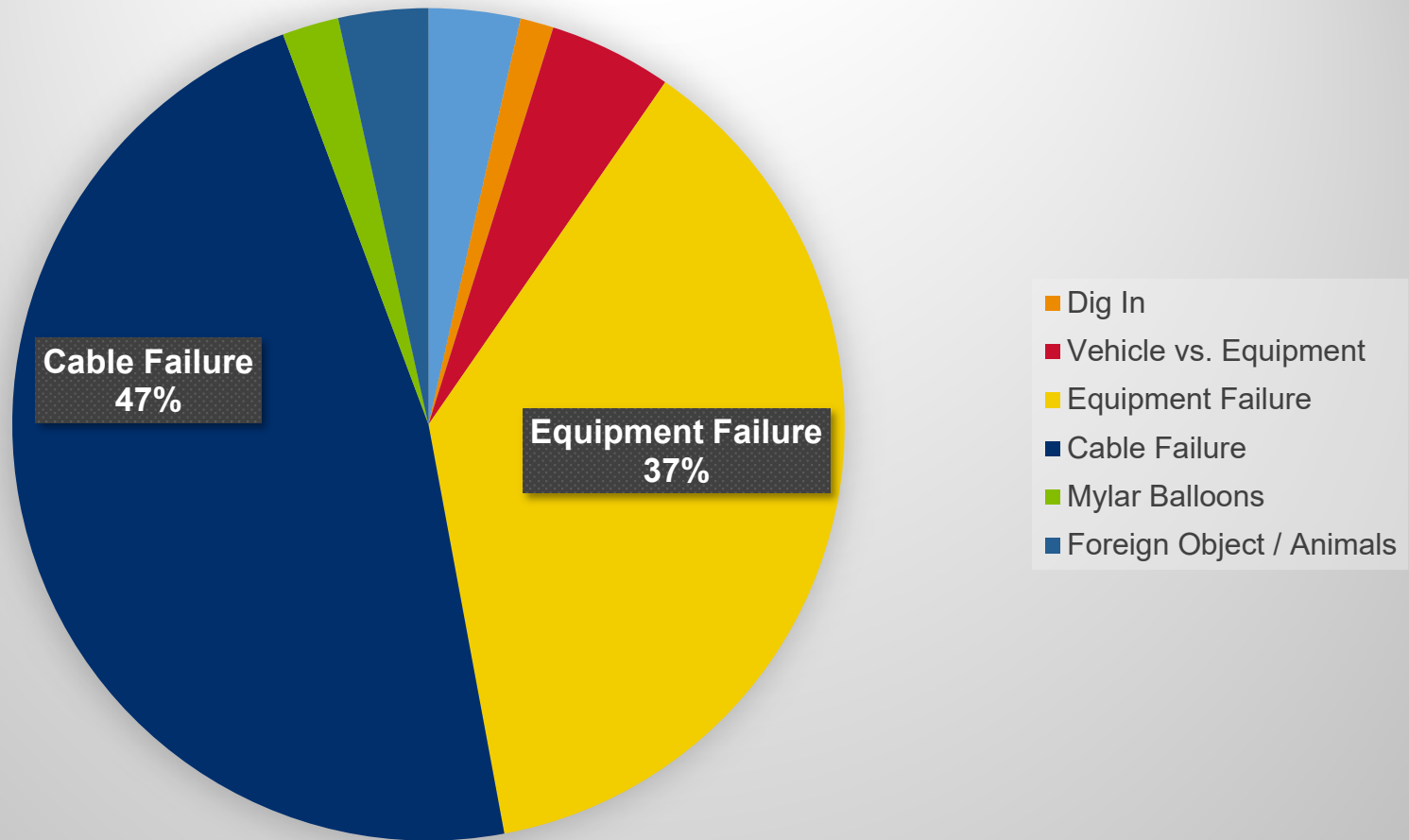
For 2021, our SAIDI shows our average customer outage is 13 minutes.

'18-'21 Average Outage Duration, SAIDI



2021 Customer Outage Minutes

Customer Minutes



Outage Mitigation

- Routine substation maintenance & inspection
- Proactive aged cable and equipment replacement
- Routine field equipment inspections
 - Poles
 - Connectors
 - Transformers
 - Pad-mounted Switches
- Tree trimming
- Summer Preparedness Plan

Reliable System Design

- Design methodology 85% underground
- All new installations designed with underground lines and pad-mounted devices
 - Minimal risk of failure due to weather
- Designed for additional growth and flexibility
- Low voltage customers can be fed from multiple sources
 - Power can be maintained while work is performed
- High voltage system is *networked* (redundant)

Fast Response

- Our First Responders are:
 - Highly qualified and trained field crews
 - Dispatched immediately after a problem is detected
 - Average response time for 2021 = 24 minutes



Questions?





PUBLIC UTILITIES COMMISSION COMMUNICATION

Title: Environmental Utilities Monthly Update

Contact:

Meeting Date: 4/26/2022

Item #: 6.3.



PUBLIC UTILITIES COMMISSION COMMUNICATION

Title: Environmental Utilities Wastewater Utility Overview

Contact:

Meeting Date: 4/26/2022

Item #: 6.4.

ATTACHMENTS:

Description

Environmental Utilities Wastewater Utility Overview



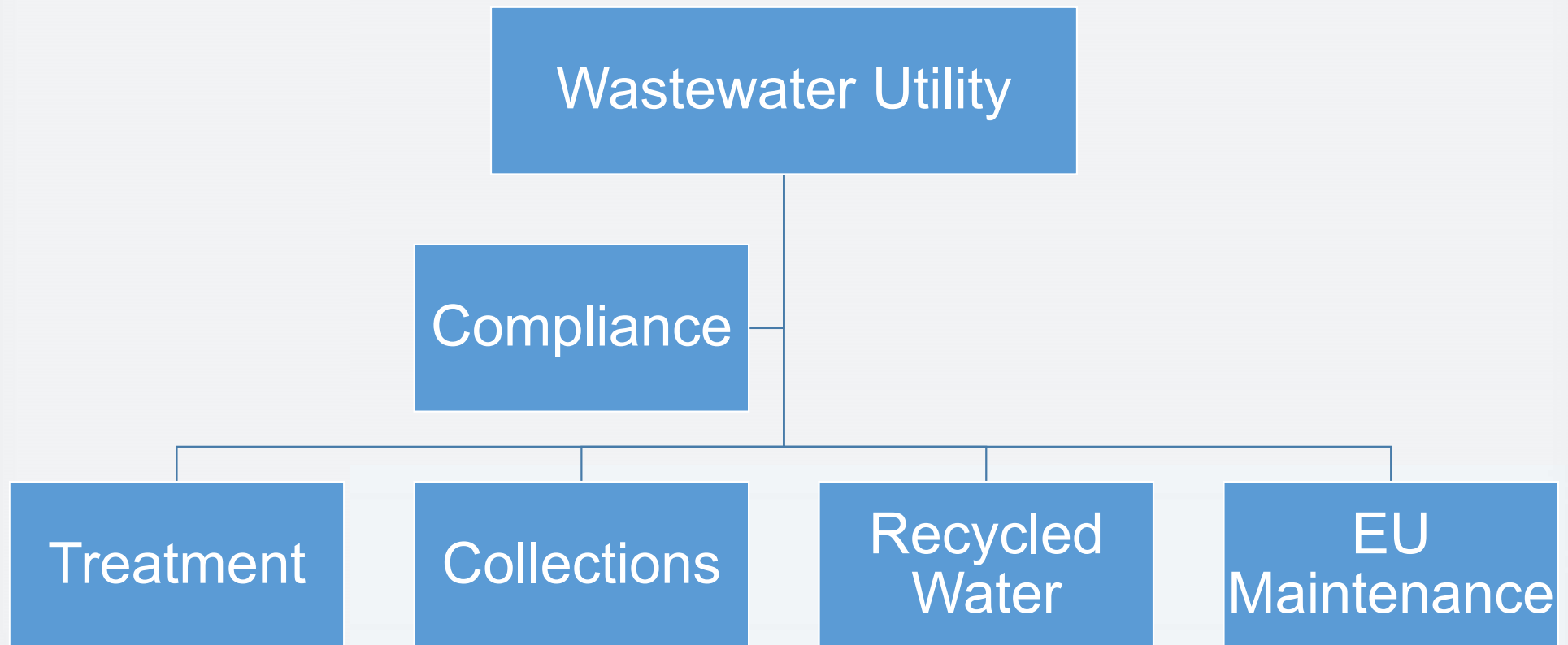
City of Roseville Wastewater Utility Overview

Public Utility Commission April 26, 2022

Dry Creek Wastewater Treatment Plant – 1970's



The Parts



Wastewater Treatment

- Two regional wastewater treatment plants
 - Dry Creek WWTP (DC)
 - Pleasant Grove WWTP (PG)
- 6.48 billion gallons of wastewater treated in 2021
- 20.5 million pounds of waste removed in 2021
- Resource Recovery
 - Recycled water
 - Biosolids
 - Class B from DC land applied
 - Future Class B at PG
 - Digester gas – RNG (Renewable Natural Gas)
 - Generate electricity at DC and eventually PG
 - Future – fuel a portion of the Refuse fleet with RNG

South Placer Wastewater Authority

- SPWA – Joint Powers Authority
 - City of Roseville
 - South Placer Municipal Utilities District (SPMUD)
 - Placer County
- Provides funding for treatment plant capacity for new development
 - Projects such as the Pleasant Grove Expansion Project are funded through the SPWA
- Funded by Regional Wastewater Connection Fees

Wastewater Collections

- Collects and conveys wastewater from homes and businesses to the treatment plants
- Maintains 855 miles of sewer pipes
 - (roughly the distance to Disneyland in Anaheim and back)
- 12,500 sewer manholes



Recycled Water

- Started deliveries in 1997 to Woodcreek Golf Course
- Now provides nearly 3,800AF annually
- Currently serve about 200 connections
- Serves recycled water demands inside and outside of the City



**Purple Pipes Keep
Roseville Green.**

Environmental Utilities Maintenance

- EU Maintenance – maintains equipment at
 - Two wastewater treatment plants and the water treatment plant
 - 20 wastewater lift stations
 - 11 groundwater well sites
 - 3 potable water tank sites
 - 2 recycled water pump stations
- 4,900 total assets

Compliance

- Two Environmental Laboratories
 - ELAP certified labs support compliance and operations at the WW plants
 - ELAP – (Environmental Laboratory Accreditation Program – State Water Board)
- Industrial Pretreatment Program
 - Permits and oversees industrial dischargers
- Treatment Plants
 - Operate under a National Pollution Discharge Elimination System (NPDES) Permit
 - Issued by the Regional Water Quality Control Board
- Recycled Water
 - Operates under a Master Reclamation Permit
 - Issued by the Regional Water Quality Control Board
- Collections
 - Operates under Waste Discharge Requirements (WDR)
 - Issued by the Regional Water Quality Control Board

Questions
