



AGENDA

January 23, 2018

VIDEO

PUBLIC UTILITIES COMMISSION MEETING

7:00 p.m.

City Council Chambers
311 Vernon Street
Roseville, California

1. ROLL CALL

2. PLEDGE OF ALLEGIANCE

3. APPROVAL OF THE NOVEMBER 28, 2017 MINUTES

3.1. November 28, 2017 Minutes

4. ORAL COMMUNICATIONS/PUBLIC COMMENTS

5. NEW BUSINESS

5.1. Environmental Utilities Monthly Update

Report by Environmental Utilities Principal Engineer Dale Olson summarizing monthly status of Environmental Utilities issues, for information.

5.2. Environmental Utilities Recycled Water Program Overview

Presentation by Senior Engineer Todd Jordan on the Recycled Water Program Overview, for information.

5.3. Roseville Electric Utility Monthly Update

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

5.4. Roseville Electric Utility Zero Net Energy Homes

Presentation by Power Engineering Manager Mark Wilhelm on the Zero Net Energy Homes, for information.

6. BOARD MEMBER / COMMISSIONER / STAFF REPORT

7. ADJOURNMENT



PUBLIC UTILITIES COMMISSION

Title: November 28, 2017 Minutes

Meeting Date: 1/23/2018
Item #: 3.1.

ATTACHMENTS:

Description

November 28, 2017 Draft Minutes

MINUTES
Public Utilities Commission

November 28, 2017
7:00 p.m.

Council Chambers
311 Vernon Street
Roseville, CA 95678

1. Roll Call

PUC Commissioners Present:

Blandon Granger
Gretchen Hildebrand
James McHan
John Speight
John Vertido
Jim Viele

PUC Commissioners Absent:

Debra Sedwick

Staff Present:

Ken Glotzbach, Wastewater Utility Manager
George Hanson, Environmental Utilities Senior Engineer
Michelle Bertolino, Electric Utility Director
Andrea Blomquist, Finance Billing Services Manager
Mark Wilhelm, Power Engineering Manager
Nathan Ribordy, Power Plant Engineer
Matt Nelson, Senior Electric Business Analyst
Philip McAvoy, Assistant Electric Utility Director
Todd White, Assistant Electric Utility Director
Paul Cummings, Assistant Electric Utility Director
Vonette McCauley, Electric Public Information Officer
Joseph Mandell, Senior Deputy City Attorney
Karen Sainsbury, Recording Secretary

2. Pledge of Allegiance

3. Minutes of September 26, 2017

The minutes of September 26, 2017 were approved as submitted.

4. Oral Comments/Public Comment

None.

5. New Business

a. Environmental Utilities Monthly Report

Report by Environmental Utilities Senior Engineer George Hanson, summarizing monthly status of Environmental Utilities issues, for information.

Ken Glotzbach presented the monthly update on behalf of George Hanson.

Commissioner McHan suggested Environmental Utilities staff follow assembly bills AB196 and AB655.

No Public Comment.

b. Environmental Utilities Capital Improvement Projects Overview

Presentation by Senior Engineer George Hanson on the Capital Improvement Projects Overview, for information

No Public Comment.

c. Roseville Electric Utility Monthly Report

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

No Public Comment.

d. Utility Customer Billing System Update

Presentation by Finance Billing Services Manager Andrea Blomquist on the launch of the City's new utility billing software, for information.

No Public Comment.

e. Roseville Electric Utility Capital Improvement Projects Overview

Presentation by Power Engineering Manager Mark Wilhelm, Power Plant Engineer Nathan Ribordy, and Senior Electric Business Analyst Matt Nelson on Electric Capital Projects Overview, for information.

No Public Comment.

6. Reports – Commission/Staff

None.

7. Proposed Future Agenda Items

None.

8. Adjournment

Commissioner McHan moved for adjournment of the November 28, 2017 Public Utilities Commission meeting. Commissioner Granger seconded the motion. The motion passed unanimously at 8:06 p.m.

Jim Viele
Chairperson

Karen Sainsbury
Recording Secretary

Title: Environmental Utilities Recycled Water Program Overview

Meeting Date: 1/23/2018
Item #: 5.2.

ATTACHMENTS:

Description

Recycled Water presentation



Environmental Utilities Recycled Water Program Overview

Todd Jordan, Senior Engineer
January 23, 2018



Recycled Water Uses

- Keeping Roseville Green
 - Parks
 - Golf Courses
 - Schools
 - Streetscapes
 - Landscapes
- Energy Production
 - Cooling Units

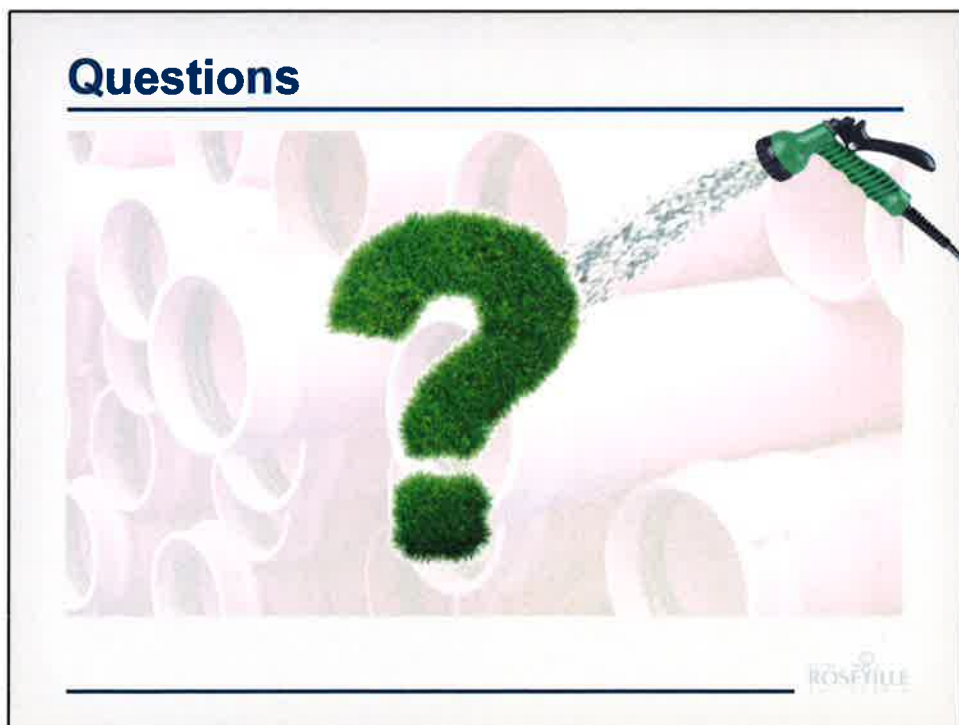
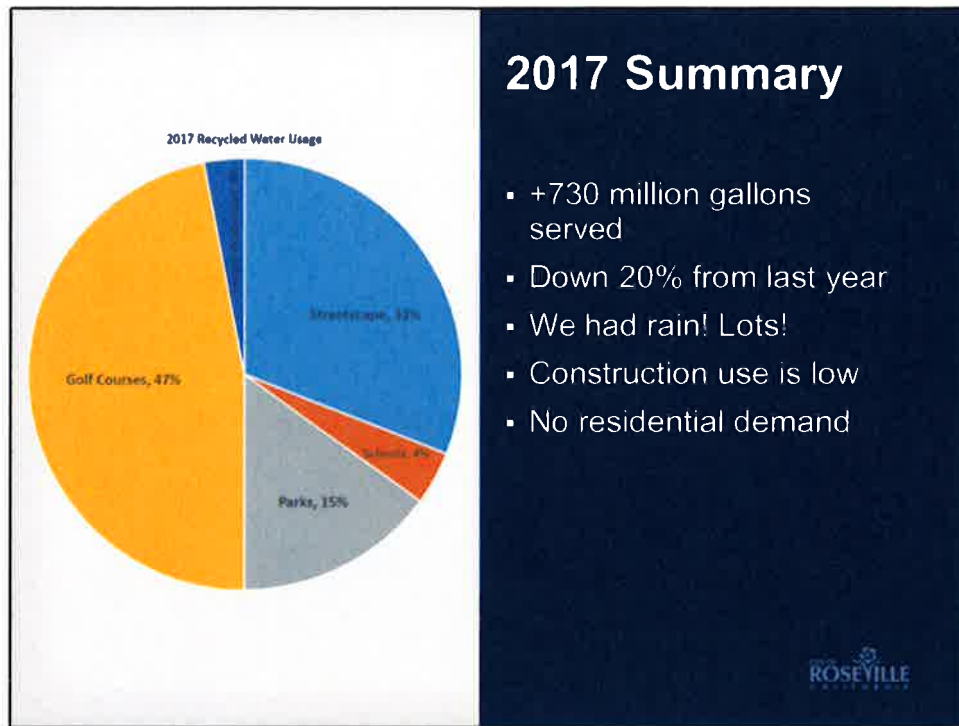


Construction and Residential Use



Continue to Pursue RW Projects







PUBLIC UTILITIES COMMISSION

Title: Roseville Electric Utility Zero Net Energy Homes

Meeting Date: 1/23/2018
Item #: 5.4.

ATTACHMENTS:

Description

Zero Net Energy Homes presentation



Zero Net Energy Homes

Mark Wilhelm
Power Engineering Manager



Definition

- "... the definition is a robust topic that is evolving."
- A Zero Net Energy (ZNE) home produces as much energy as it consumes over the course of a year
- Target: all new residential construction to be ZNE by 2020





How?

- High efficiency envelope
- Efficient HVAC, lighting
- Optimize building operation (human use, management of plug-in devices)
- Result: home uses 2/3 less energy
- Remaining energy use offset by renewable generation

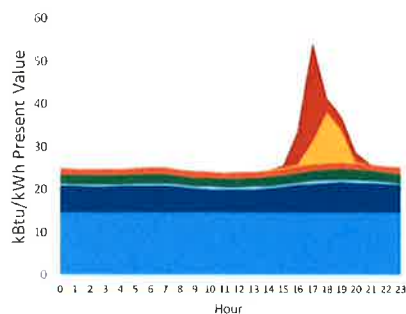


Utility Challenge

- Uses the utility system as a battery
- Little or no net energy consumption
- Robust delivery system still needed for energy peaks
- Energy could flow at non-optimum times; however..

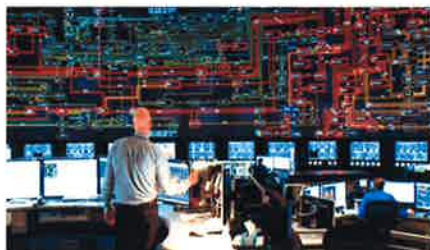


Figure 34: Climate Zone 12 Residential (30 yr)



Time Dependent Value (TDV)

- Codes recognize energy efficiency and production have different values at different times (TDV)
- A Net Zero home efficiency score takes this into account
- May incent energy storage
- Utilities may be asked to provide storage and demand management "tools"



Preparing for ZNE

- AMI – visibility, flexibility
- Technology roadmap
- Advanced distribution management system
- Staying abreast of developments



Summary

- A Zero Net Energy (ZNE) home produces as much energy as it consumes over the course of a year
- All new residential construction to be ZNE by 2020
- Utility accommodation of ZNE homes presents some challenges, and perhaps opportunities?