



AGENDA
August 22, 2017
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 JUNE 27, 2017 MINUTES

3.1. June 27, 2017 Minutes

4. ORAL COMMUNICATIONS/PUBLIC COMMENTS

5. NEW BUSINESS

5.1. Election of Chair and Vice Chair

In conformance with Section II-B of the Public Utilities Commission Meeting Procedures, election to be held for Chair and Vice Chair. Elected officers shall assume their positions at the regular meeting in September.

5.2. Environmental Utilities Monthly Update

Report by Environmental Utilities Director Rich Plecker summarizing monthly status of Environmental Utilities issues, for information.

5.3. Roseville Utility Exploration Center Program Update

Report by Interpretive Services Supervisor Rachel Tooker with an overview of Center operations, for information.

5.4. Roseville Electric Utility Monthly Update

5.5. Roseville Electric Utility LED Streetlights Update

Presentation by Assistant Electric Utility Director Paul Cummings and Electric Business Analyst Emily Isaacs on LED Streetlights, for information.

5.6. Roseville Electric Utility Community Solar Project

Presentation by Senior Energy Services Account Representative Mark Riffey on the Community Solar Project, for information.

6. **BOARD MEMBER / COMMISSIONER / STAFF REPORT**
7. **ADJOURNMENT**



PUBLIC UTILITIES COMMISSION

Title: June 27, 2017 Minutes

Meeting Date: 8/22/2017
Item #: 3.1.

ATTACHMENTS:

Description

June 27, 2017 Draft Minutes

MINUTES
Public Utilities Commission

June 27, 2017

7:00 p.m.

Council Chambers
311 Vernon Street
Roseville, CA 95678

1. Roll Call

PUC Commissioners Present: Blandon Granger
Kerry Schmitz
John Speight
John Vertido
Jim Viele

PUC Commissioners Absent: Gretchen Hildebrand
James McHan

Staff Present: Michelle Bertolino, Electric Utility Director
Todd White, Electric Assistant Utility Director
Philip McAvoy, Electric Rates and Financial Administrator
Mark Wilhelm, Electric Power Engineering Manager
Mitch Larkin, Electric Senior Power Engineer
David Bradford, Electric Customer Programs Supervisor
Rich Plecker, Environmental Utilities Director
Maurice Chaney, Environmental Utilities Public Information Officer
Joe Mandell, Senior Deputy City Attorney
Cheryl Hammond, Recording Secretary

2. Pledge of Allegiance

3. Minutes of May 23, 2017

The minutes of May 23, 2017 were approved as presented.

4. Oral Comments/Public Comment

None

5. New Business

- a. Roseville Electric Utility Monthly Update
Report by Electric Utility Director Michelle Bertolino summarizing monthly status of Electric issues, for information.

Public Comment: None

- b. Roseville Electric 2016 Annual Reliability Overview
Presentation by Electric Senior Power Engineer Mitch Larkin summarizing the 2016 Annual Reliability Overview, for information.

Public Comment: None

- c. Roseville Electric Utility Public Benefit Programs FY18
Presentation by Electric Customer Programs Supervisor David Bradford on Fiscal Year 2018 Public Benefit and Customer Programs, for information.

Public Comment: None

- d. Environmental Utilities Monthly Update
Report by Environmental Utilities Director Rich Plecker summarizing monthly status of Environmental Utilities issues, for information.

Public Comment: None

- d. Environmental Utilities 2017 Residential Customer Satisfaction Survey Results
Presentation by Public Information Officer Maurice Chaney and RKS Research & Consulting Ann Davis on the 2017 Residential Customer Satisfaction Survey Results, for information.

Public Comment: None

6. Reports – Commission/Staff

None.

7. Proposed Future Agenda Items

None.

8. Adjournment

Commissioner Granger moved for adjournment of the June 28, 2017 Public Utilities Commission meeting. Commissioner Viele seconded the motion. The motion passed unanimously at 7:55 p.m.

John Speight
Chairperson

Cheryl Hammond
Recording Secretary

Title: Roseville Utility Exploration Center Program Update

Meeting Date: 8/22/2017
Item #: 5.3.

ATTACHMENTS:

Description

Utility Exploration Center presentation



Utility Exploration Center

Rachel Tooker, Supervisor

August 22, 2017



**Roseville Utility
Exploration Center**

- Founded 2008
- Shared Initiative:
 - *Environmental Utilities*
 - *Roseville Electric Utility*
- Unique Resource in Roseville and the US!



What drives us

From Interpretive Plan, December 2015

The Roseville Utility Exploration Center exists to educate by engaging kids and adults from Roseville and beyond. We aim to amaze with what our utilities do every day, as well as inspire stewardship at home – and reflect on the interconnectedness between utility, customer, community, and planet.

UTILITY



What we do

- Exhibits
- School Programs
- Preschool Programs
- Family Programs/ Events
- Special Tours
- Workshops
- Community Connections

ROSEVILLE
UTILITY

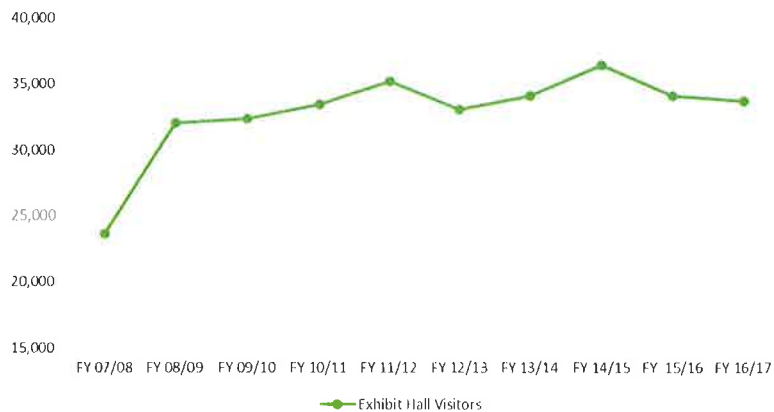
Main takeaway:

I am part of a bigger system. My utilities partner with me to keep my community beautiful and unique.

Nobody can do it alone – it takes all of us working together to make a difference.

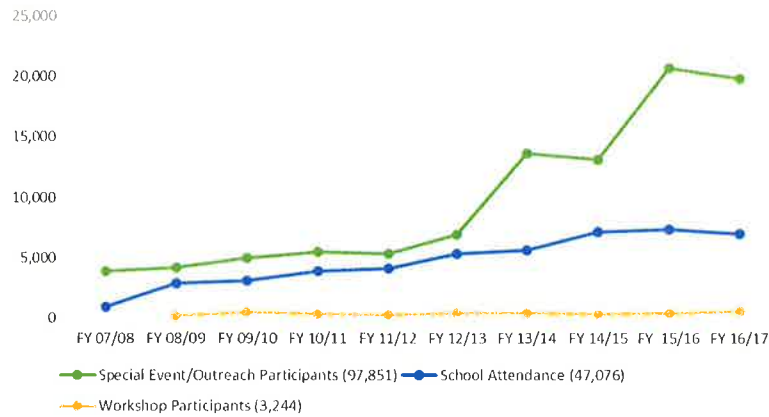
Attendance trends

RUEC Exhibit Hall Visitors
Jan 2008 - June 2017: 327,930



Attendance trends

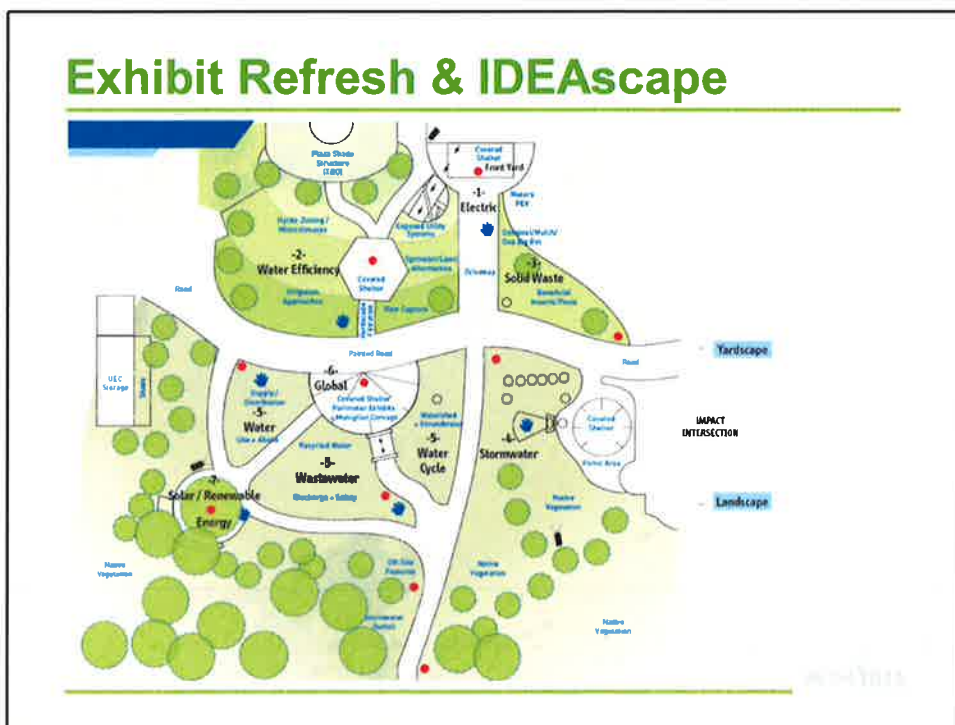
RUEC Special Event, School & Workshop Attendance
Jan 2008-June 2017: 148,171



Since 2008 –
476,101 program participants!









Questions?
www.roseville.ca.us/explore



Title: Roseville Electric Utility LED Streetlights Update

Meeting Date: 8/22/2017
Item #: 5.5.

ATTACHMENTS:

Description

LED Streetlight presentation



LED Streetlight Update

Paul Cummings, Assistant Utility Director

Emily Isaacs, Electric Business Analyst

Public Utilities Commission Meeting

August 22, 2017

Roseville Streetlight Background

- Streetlights are installed for safety purposes
- Electric Utility rates pay for all Roseville streetlights. Includes traffic signals and traffic signal streetlights
- Electric Utility is responsible for maintaining streetlights
- Public Works is responsible for maintaining traffic signals (and attached streetlights)

Why LED Streetlights

- Energy Efficiency Requirements - LED lights use significantly less energy
 - Reduced maintenance - LED lights last longer, are less expensive over the life of the light
 - The industry is phasing out standard lights
 - Slowly converting existing lights to LED
 - LED lights are the standard in new development
-

Health Concerns

- American Medical Association published report in June 2016 presenting possible health concerns from some LED lighting
 - Concerns included:
 - Blue light exposure
 - Glare
 - Circadian rhythm disruption
-

Response to Concerns

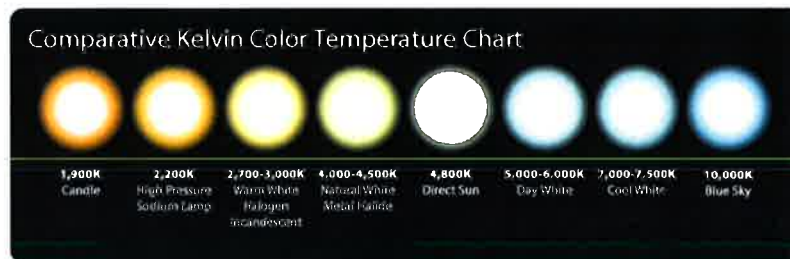
- Rensselaer Polytechnic Institute responded to human health concerns in June 2016
 - Blue light hazard – Not likely for most people
 - Glare from blue light exposure – Lowering visual angle of light can reduce glare
 - Circadian rhythm disruption – More research needed
-

Mitigation to Concerns

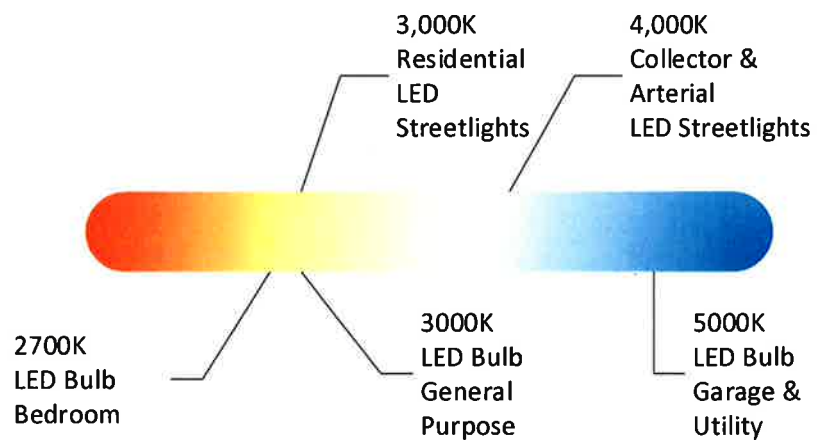
- Use LED lights with a warmer color (less blue) in residential areas
 - Use LED lights with cooler color (whiter or bluer lamps) in higher traffic areas
 - Shield lights
-

Light Color

- Light color temperature is measured in Kelvins (K)
- The spectrum of color temperature runs from warm (red-yellow) to cool (white-blue)



LED Streetlight Color Temperature



*Color association is approximate

Status of LED Streetlights

- The industry is phasing out standard lights
 - LED lights increase visibility, safety and efficiency
 - Continually evaluating the best solution for Roseville
 - Three neighborhoods will begin conversion in the fall (Invest Health Program)
 - Likely to recommend a full conversion project in the near future
-

Title: Roseville Electric Utility Community Solar Project

Meeting Date: 8/22/2017
Item #: 5.6.

ATTACHMENTS:

Description

Community Solar Project



Overview

- Alternative to roof top solar
 - Utility scale centrally located solar energy project
 - Approximately 975 kW
 - Economies of scale
-

Level of Interest

- Roseville has among the highest penetration of rooftop solar in the nation
 - Our customers value solar energy
 - Community solar provides qualifying renewable energy for the Utility
-

Accomplishments

- Established control of project site
 - Issued RFP and evaluated responses
 - Completed significant environmental and regulatory work
 - Negotiating power purchase agreement and land lease contract
-

Location

- Many sites examined
- Chose site adjacent to Roseville Energy Park
- Consistent with original REP design concept to construct adjacent solar facilities
- Located on city-owned land

Conceptual Design



Customer Program

- Program specifics still under development
 - Available to residential customers
 - Estimate 200 to 300 participants
 - Plan to offer to multiple customer segments – income qualified, multi-family, green customers, etc.
-

Estimated Timeline

- September 2017: Present contract to City Council
 - Fall 2017: Submit proposed design package to City and request approval from City's Planning Commission
 - Winter 2017-18: Apply for City building permits
 - Spring 2018: Construction begins
-