AGENDA

LOVELAND CITY COUNCIL STUDY SESSION TUESDAY, OCTOBER 27, 2015 CITY COUNCIL CHAMBERS 500 EAST THIRD STREET LOVELAND, COLORADO

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STUDY SESSION 6:30 P.M. STUDY SESSION AGENDA

1. WATER AND POWER

PRPA CLEAN PLANT PROGRAM UPDATE

(presenters: Steve Adams and Jackie Sargent 60 min.)

This is an information only item. Jackie Sargent, General Manager and CEO of Platte River Power Authority (PRPA), will update the Council on PRPA's near and long-term resource management plans and provide an update on the Clean Power Plan and its long-term implications. PRPA's Resource Plan identifies a range of options to meet future environmental and regulatory impacts including the EPA Clean Power Plan. The budgetary impact of complying with these programs over the next 20 years or so will require annual rate increases in the range of 0.7% to 3%.

ADJOURN STUDY SESSION

SPECIAL MEETING - CITY MANAGER'S CONFERENCE ROOM

ROLL CALL:

2. HUMAN RESOURCES

MUNICIPAL JUDGE EVALUATION – POSSIBLE EXECUTIVE SESSION

(presenter: Julia Holland)

This is an administrative action to call an executive session for the purposes of conducting the Presiding Municipal Judge's six month evaluation.

ADJOURN



CITY OF LOVELAND

WATER & POWER DEPARTMENT

200 North Wilson • Loveland, Colorado 80537

(970) 962-3000 • FAX (970) 962-3400 • TDD (970) 962-2620

AGENDA ITEM: 1

MEETING DATE: 10/27/2015
TO: City Council

FROM: Steve Adams, Water and Power Department

PRESENTERS: Steve Adams, Director, Water and Power Department

Jackie Sargent, General Manager, Platte River Power Authority

TITLE:

PRPA Resource Plan Update

RECOMMENDED CITY COUNCIL ACTION:

This is an informational item; no council action is required.

SUMMARY:

Jackie Sargent, General Manager and CEO of Platte River Power Authority (PRPA), will update the Council on PRPA's near and long-term resource management plans and provide an update on the Clean Power Plan and its long-term implications.

BUDGET IMPACT:

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☐ Neutral or negligible

PRPA's Resource Plan identifies a range of options to meet future environmental and regulatory impacts including the EPA Clean Power Plan. The budgetary impact of complying with these programs over the next 20 years or so will require annual rate increases in the range of 0.7% to 3%.

BACKGROUND:

Platte River Power Authority's Board has adopted the following statement as it relates to Resource Management: "Platte River Power Authority employs an adaptive strategy to cost-effectively maintain reliability, manage risks, and ensure regulatory compliance."

This presentation will highlight the resource management direction for the near term (2015-2020) and mid-term (2020-2030). A major variable in the mid-term is the Environmental Protection Agency's Clean Power Plan and how the State of Colorado will implement it. The final state plan could have a significant, long-term impact on wholesale rates. Note: this presentation will not cover PRPA's Integrated Resource Plan (IRP). PRPA last produced an IRP in 2012 and will develop its next 2016 and early 2017, with the document due for filing in June 2017.

The Loveland Utilities Commission has received presentations on the PRPA Resource Plan on December 17, 2014, and September 16, 2015.

REVIEWED BY CITY MAI	NΑ	GER:
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William Caliel

LIST OF ATTACHMENTS:

PowerPoint Presentation



Resource Planning Update

Loveland City Council
October 27, 2015

Platte River Power Authority Governance



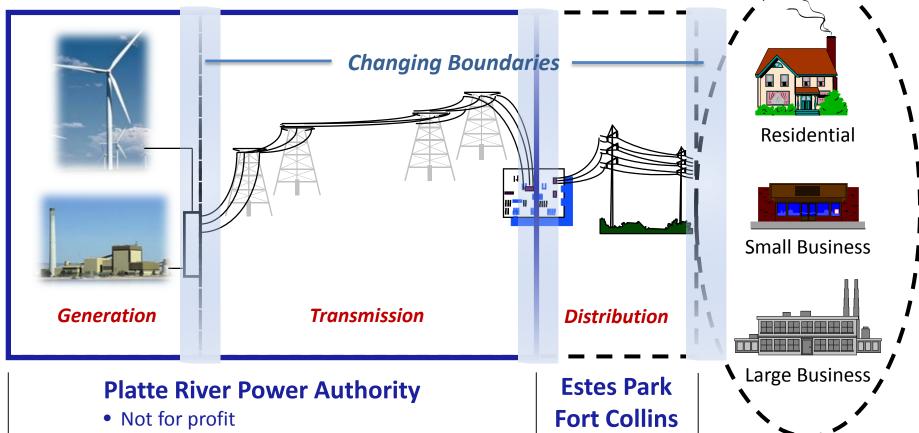
Platte River Focus – Balance



<u>Key Focus</u> → Balance the needs of all communities we serve

→ More the same than they are different

Local Electric System Partnership



- Joint Ownership / Joint Action
- Municipal utility structure
- Local governance

Estes Park
Fort Collins
Longmont
Loveland

Customers

Existing Wholesale Generation Resources



Rawhide Coal



Hydropower (multiple sites)



Craig Coal

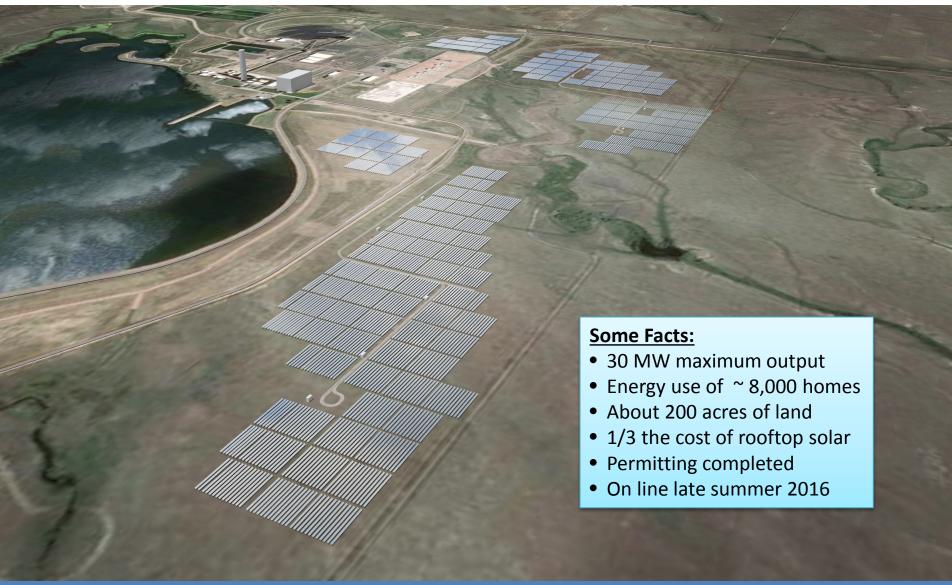


Rawhide Gas (simple cycle)

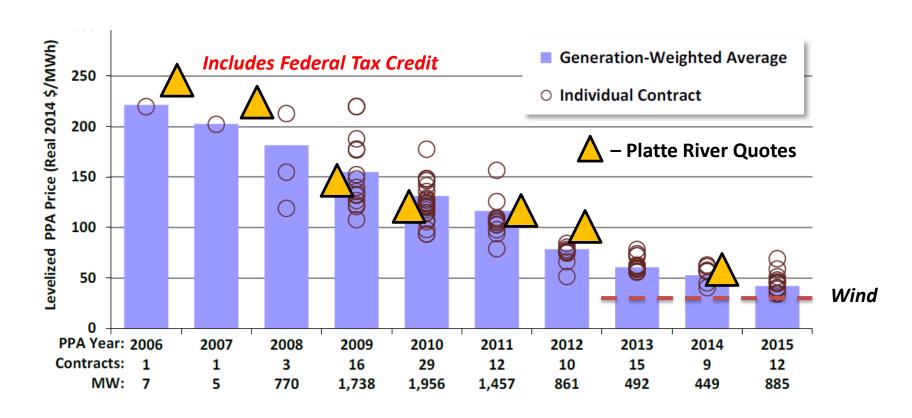


Wind (multiple sites)

New Solar Resource – Rawhide Flats



Renewable Cost Trends – Utility Scale



LBNL - Sep 2015

Utility-Scale Solar 2014: An Empirical Analysis of Project Cost, Performance, and Pricing Trends in the United States

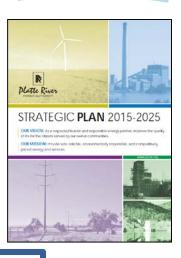
Strategic Planning Initiatives

Compliance Assurance

Operational Excellence

Technological Innovation

Safety



Financial Stability

Employee Engagement

Exceptional Customer Service

Dive**ßifsod**ilæergy S**upphaBertfeli**o Improved Collaboration & Communications

www.prpa.org

Resource Management Initiative

Platte River Power Authority employs an adaptive strategy to cost-effectively maintain reliability, manage risks, and ensure regulatory compliance

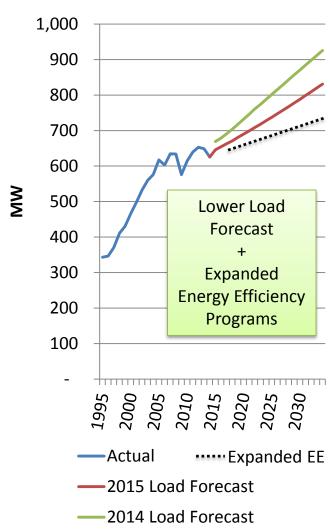
- Adaptive → many uncertainties need to be flexible
- *Cost effective* → customers are price sensitive
- Reliability → non-negotiable "gotta have it"
- *Risk management* → ongoing process / increasing
- Compliance → also non-negotiable once defined

Resource Management Considerations

- We have time for new resource decisions
 - Great performance of existing resources
 - Surplus capacity and energy available
 - Colorado renewable energy standard met
 - Lower future capacity needs vs. historical
- Wide range of future options (promising cost trends)
- Many uncertainties going forward (some beyond our control)



Clean Power Plan



Clean Power Plan – Final Rule





- EPA Rule (Federal)
- State Implementation (SIP)
 - Colorado specific process
- ~ 25 to 40% reduction in CO₂
 for Colorado (by 2030)
- Platte River specific reduction uncertain
- State rules to be clear by September 2018
- Interim reductions 2022
- Final goals 2030

Colorado State Implementation Plan Alternatives

Emission Standards (Command and Control)

Rate-Based – Ib/MWh

Emission Standards

Mass-Based – tons/yr

Emissions Tax

Single State Trading Free Allowances

Single State Trading Auction for Allowances

Multi-State Trading Free Allowances

Multi-State Trading
Auction for Allowances

"Common Programs"
Since 2002





Efficiency Works Co-branding

Rawhide Flats Solar – 2016 (30 MW)



Craig Unit 1 Exit Strategy



Resource Changes

Medicine Bow Wind Pilot First in Region 1998



Expansions through 2004

Silver Sage – 2008 (12 MW)



108 MW Total Wind & Solar (2016)

Spring Canyon – 2014 (32 MW + 28 MW)



Medicine Bow Life Extension (6 MW)



Distributed Resources Collaboration

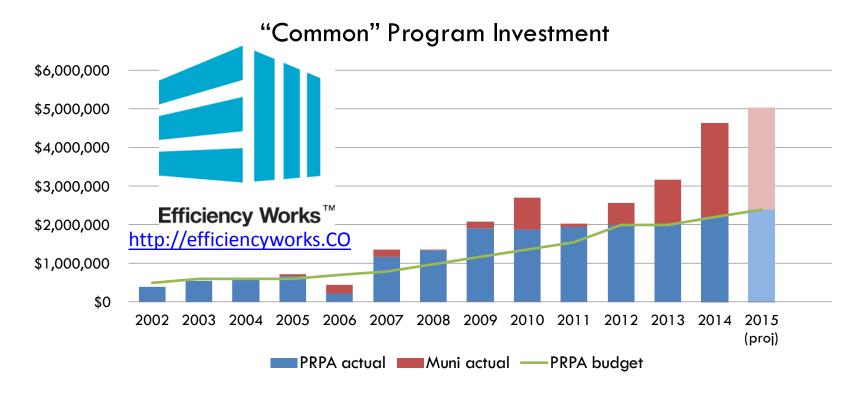
2016 Budget Items:

- Expanded Energy Efficiency
- Demand Response Pilot

2015/2016 Activities:

- Combined Heat & Power
- System Community Solar
- Loveland FEMA Solar
- Fort Collins Solar Programs
- DG Strategy Development

Energy Efficiency as a Resource



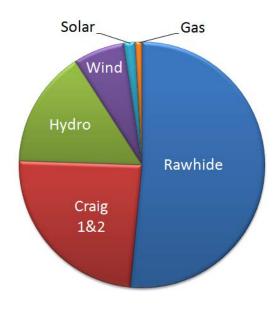
Cumulative Results (2002 – 2014)

- Utility investment ~ \$23 million
- About 4% system load reduction
- Customer perspective):
 - ✓ Invested ~ \$37 million
 - ✓ Saving ~ \$9 million/yr

Why Exit Craig Unit 1?

- Potential to avoid future costs
- Big enough to allow major CO₂ changes to mix
 - About one-fourth of all system energy
 - About one-third of coal energy
- Most of Craig output serves surplus sales
 - Sales to others (not Municipalities)
- Rawhide provides sufficient base load
 - Need more flexible resources
- Craig capacity is incremental two units
- Coal supply contract flexibility
- Craig units significantly underperform Rawhide

2014 – All Sales











Other Craig Owners

Planning Timeframes



Board reviewand direction

- Initial Diversification: Large Wind & Solar
- Energy Efficiency Program Expansion
- Craig Unit 1 Strategy& Implementation
- DR/DG Programs
- ~ 20% CO₂ reduction

NEAR TERM 2015-2020

MID TERM 2020-2030

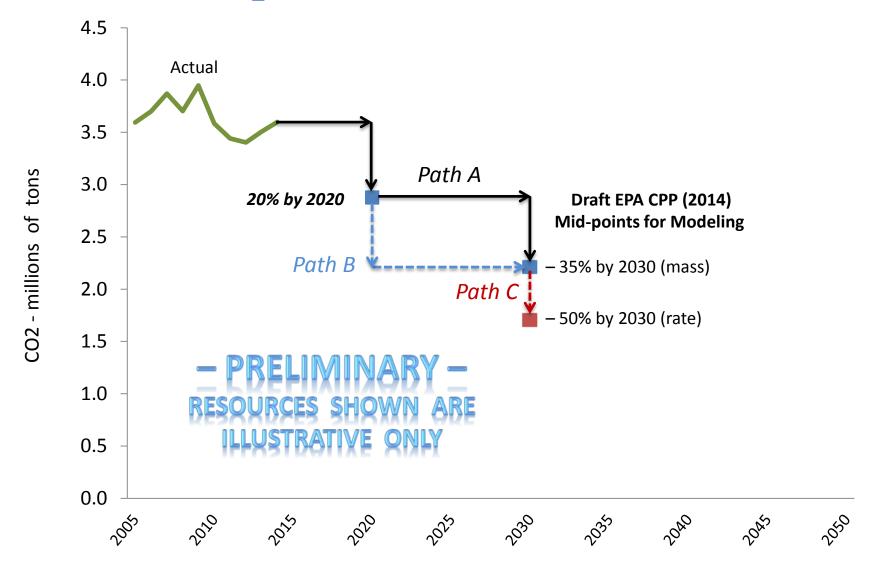
- Multiple Viable Options To 2030
- 2030 Craig Unit 2 Strategy
- Continued Energy Efficiency Expansion
- More Renewables
- Resource Integration& New Technology
- CO₂ reduction CPP

- Rawhide Operations Strategy (Long Term)
- Normal Rawhide Retirement
- New Technology Integration

LONG TERM 2030-2050

Next Planning Focus

Modeling CO₂ Emission Paths



Path A – Resource Changes / Mix

Energy Efficiency Programs

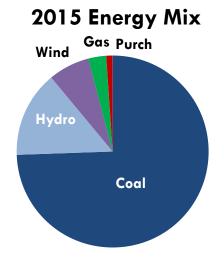


2030

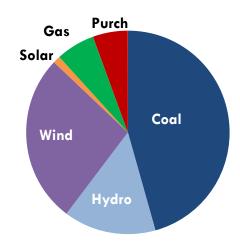
2035

2015

2020

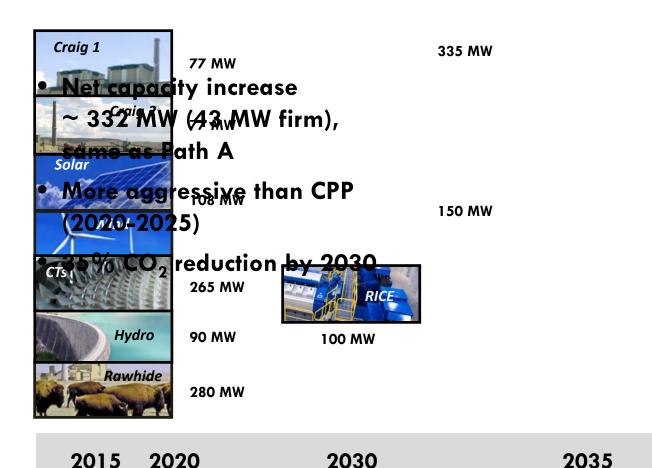


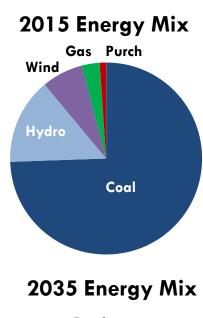
2035 Energy Mix

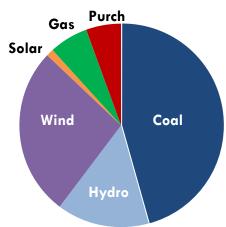


Path B – Resource Changes / Mix

Energy Efficiency Programs

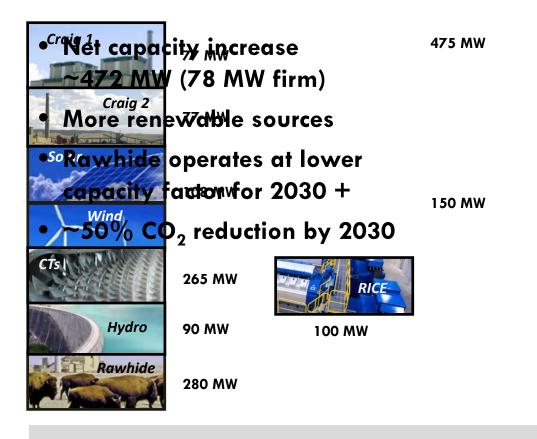


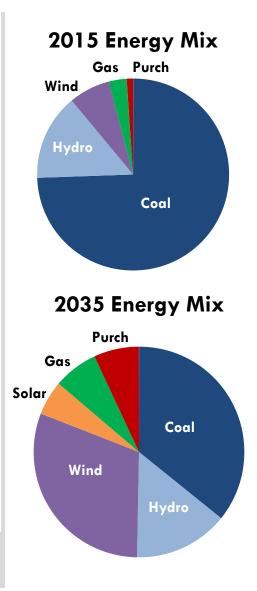




Path C – Resource Changes / Mix

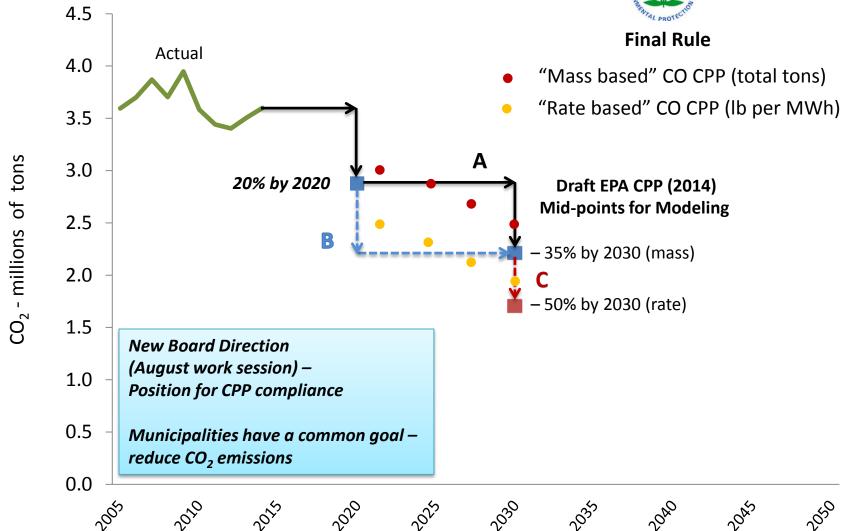
Energy Efficiency Programs



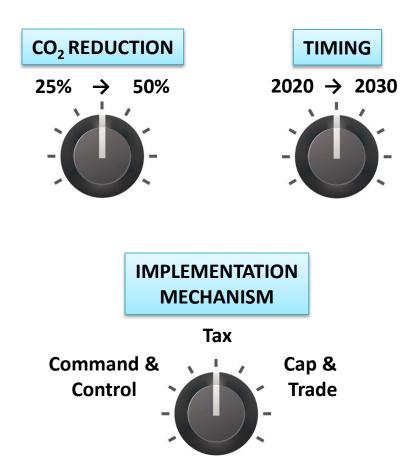


Modeling CO₂ Emission Paths

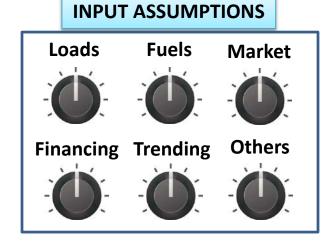




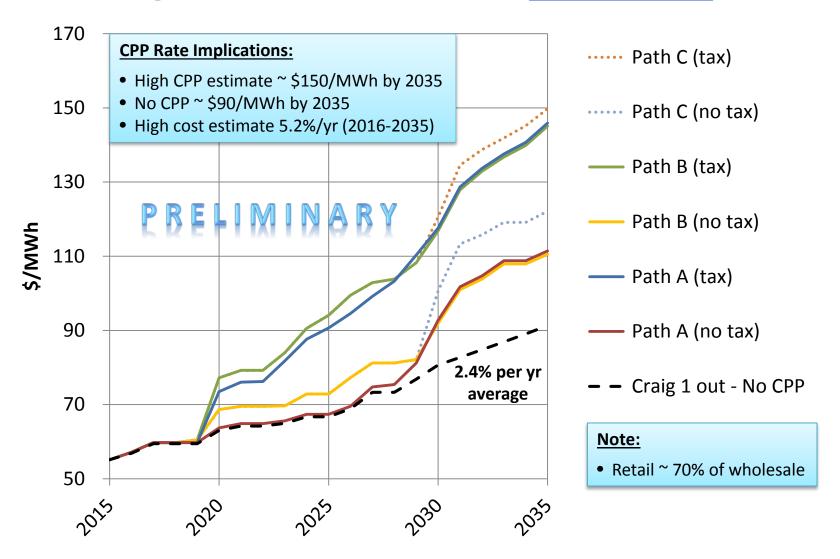
Modeling Wholesale Rates – Many Variables



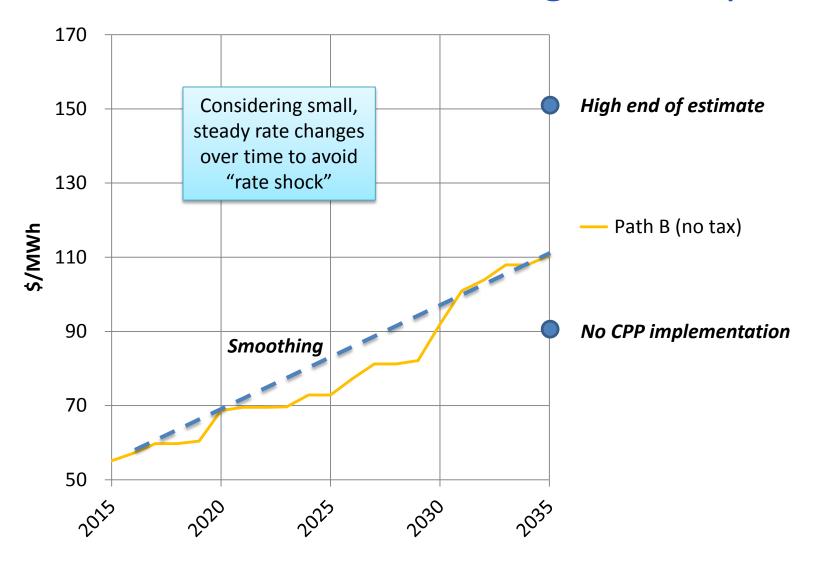
RESOURCE MIX EE/DSM Coal Gas Wind Solar Others



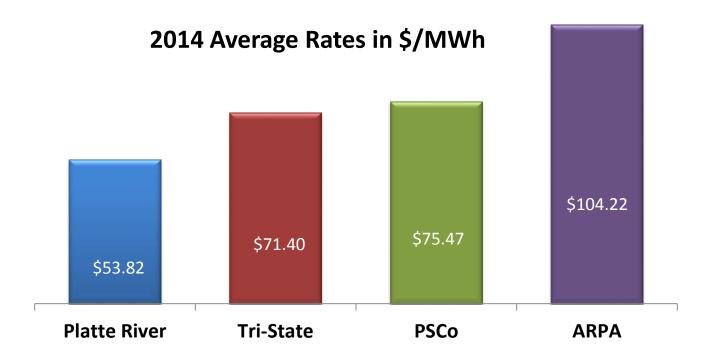
Modeling – Wholesale Rate Examples



Wholesale Rates – Smoothing Rate Impacts



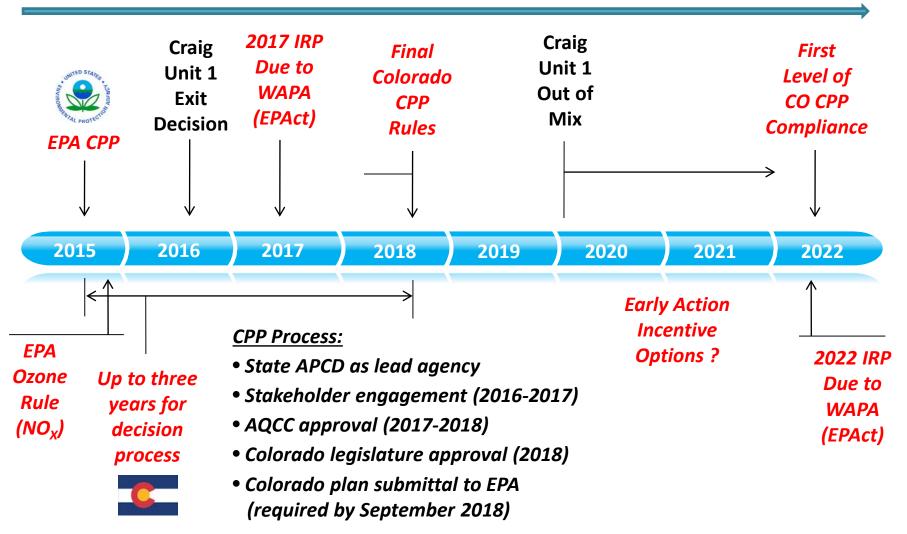
Wholesale Rates – Colorado Suppliers



- Next closest supplier (Tri-State) was 33% higher in 2014
- For the last 10 years, others have risen faster than Platte River
- Platte River may rise faster in the future due to high coal in mix (depends on CPP implementation in Colorado)

Planning Timeline

Energy Efficiency & DR/DG Programs













Questions & Discussion



CITY OF LOVELAND

HUMAN RESOURCES DEPARTMENT

Civic Center • 500 East Third • Loveland, Colorado 80537 (970) 962-2371 • FAX (970) 962-2919 • TDD (970) 962-2620

AGENDA ITEM: 2

MEETING DATE: 10/27/2015
TO: City Council

FROM: Julia Holland, Human Resources

PRESENTER: Julia Holland, HR Director

TITLE:

A Motion To Conduct An Executive Session For The Purposes Of The Presiding Municipal Judge's Six Month Evaluation. Council Waives The Requirement Of Notice Of The Meeting Delivery To Their Homes.

RECOMMENDED CITY COUNCIL ACTION:

Adopt the motion

OPTIONS:

- 1. Adopt the action as recommended
- 2. Deny the action
- 3. Adopt a modified action (specify in the motion)

BUDGET IMPACT:

Pos	itive
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□ Negative

SUMMARY:

This is an administrative action to call an executive session for the purposes of conducting the Presiding Municipal Judge's six month evaluation.

BACKGROUND:

This is an administrative action to conduct an executive session on October 27, 2015, in the City Manager's Conference Room for the purposes of conducting and completing the six month evaluation for the Presiding Municipal Judge.

REVIEWED BY CITY MANAGER:

William Calul

LIST OF ATTACHMENTS:

None