

Common Energy Efficiency Programs



Efficiency Works™

Estes Park Light and Power

Fort Collins Utilities

Longmont Power &

Loveland Water and Power

Platte River Power Authority

Efficiency Works for Home

- Home efficiency audits & rebates
 - · Neighborhoods pilot
- · Energy efficient lighting and products
- Northern Colorado ENERGY STAR® Homes

Efficiency Works for Business

- · Efficiency assessments/technical support
 - · Energy and water audits
- Building Tune-Ups (BTU)
- · Rebates for efficient equipment



Efficiency Works for Homes

Home Efficiency Audits & Rebates

- Program managed by team of Platte River and Muni staff
- Program administrator (CLEAResult) contract managed by Platte River
- · Directive Funding from Municipality budgets

Program Administrator Provides:

- Efficiency audit and customer advisor services
- Contractor management
- Rebate Processing
- Quality assurance and verification

"[The Advisor] was extremely helpful in showing us where we can best improve the efficiency of our house."

Participating Homeowner



Efficiency Works for Homes

Energy efficient lighting & products

- Retail point-of-sale rebates for LEDs and other efficient lighting technologies
- The Home Depot, Ace Hardware, Wal-Mart, Sam's Club, The Light Center, Joseph's Hardware, Batteries Plus, etc.
- Rebates are paid based on contracted rates and sales data provided monthly by retailers
- Expansion beyond lighting in 2017+





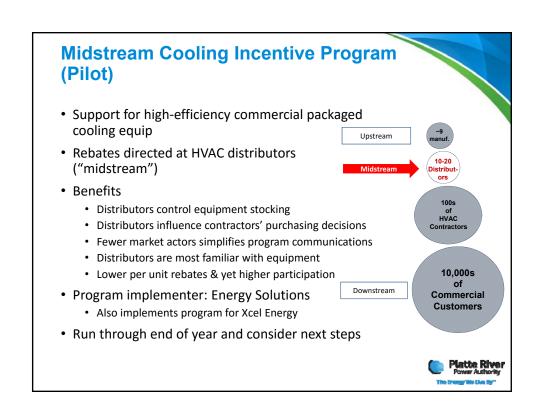
Efficiency Works for Business



- Custom Rebates
 - Rebates based on energy savings and project cost
 - Virtually any equipment that saves energy: chillers, evaporative coolers, compressed air, special controls, etc.
- Prescriptive Rebates
 - Rebates for equipment that saves energy (or water with city funding)
 - Lighting, cooling, building envelope, food service, grocery, office & IT, variable frequency drives (VFDs)
- Efficiency assessments / technical support
- Building tune-ups
 - Utility pays for retro-commissioning study, implementation oversight, and verification
 - Customer commits to perform no- and low-cost efficiency upgrade

800+ projects per year across four cities and growing...

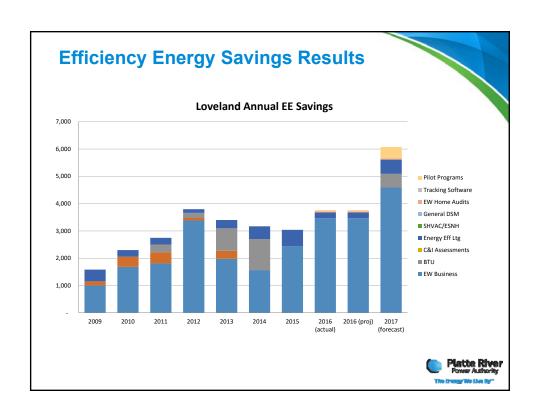


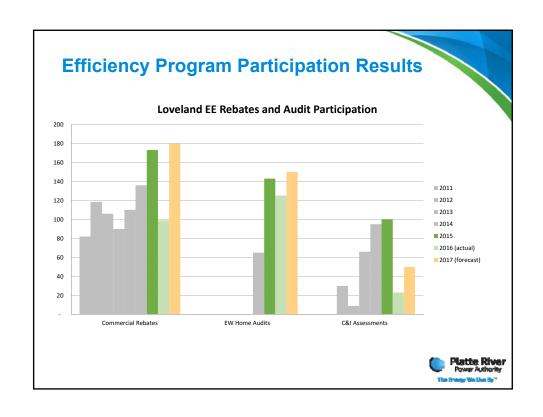


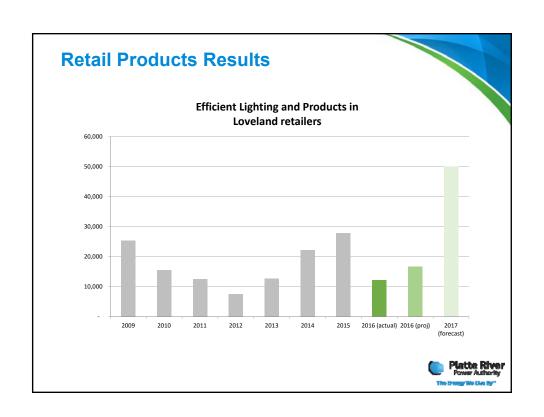
Historical and 2016 Results

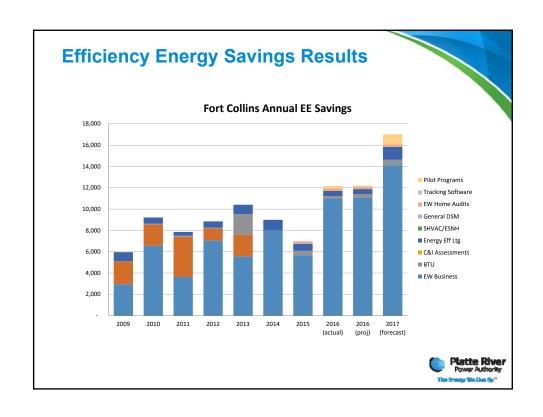
- For Loveland and Fort Collins
 - Energy savings
 - Business and home participation
 - Retail lighting sales
 - Upstream HVAC participation

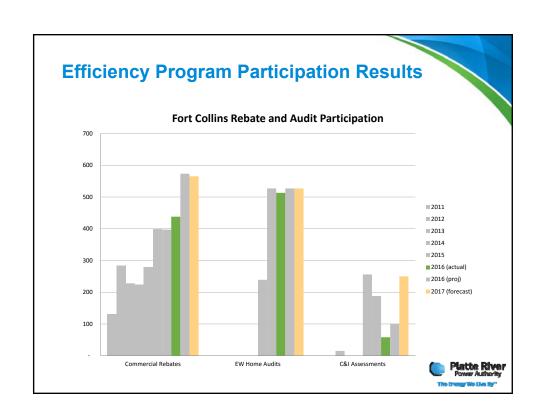


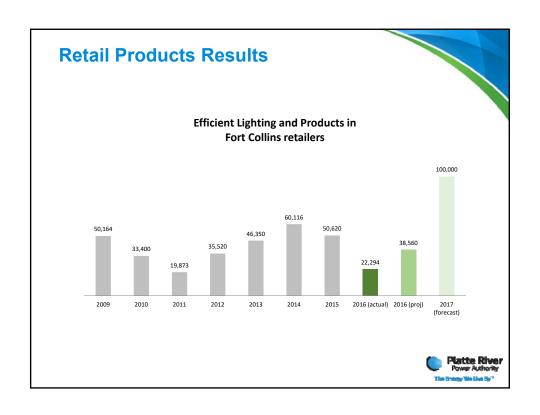


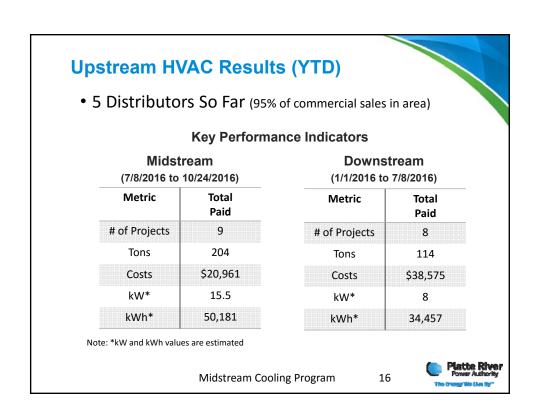












Upstream HVAC Results (YTD)

Cumulative Total Paid per City (as of 10/24/16)

Metric	Estes Park	Fort Collins	Longmont	Loveland
Projects	0	7	1	1
Tons	0	163	5	36
Incentives	\$0	\$11,336	\$425	\$2,356
Total Fees	\$0	\$16,672	\$611	\$3,678
kW*	0	12	1	2.5
kWh*	0	33,803	1,021	15,357

Note: *kW and kWh values are estimated

Midstream Cooling Program

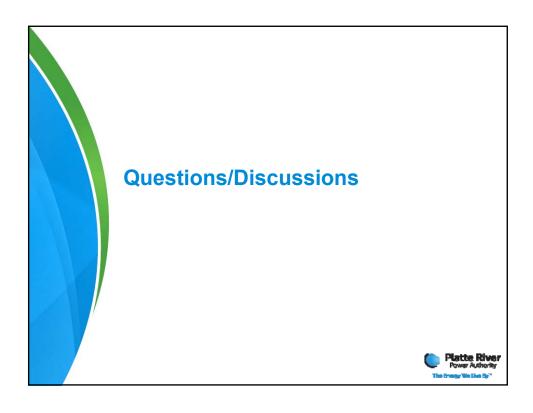
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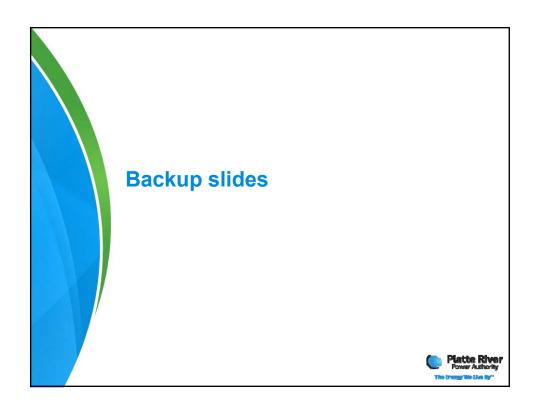


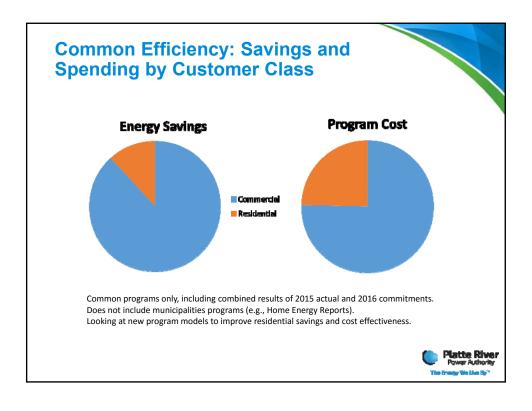
Ongoing Activities and Next Steps

- Continue to evaluate commercial rebates to meet EE goals and gap analysis to focus efforts and analysis
- RFP issued for commercial DSM, assessment, advising and technical services for 2017
- Continue DSM Software implementation
- Midstream Cooling pilot
- Efficiency Works Neighborhoods FC Pilot
- Increase consumer products Retailer Program Partnership (RPP)
- EE Financing Fort Collins RFP and other opportunities being monitored
- Considering third-party program evaluation (2017)





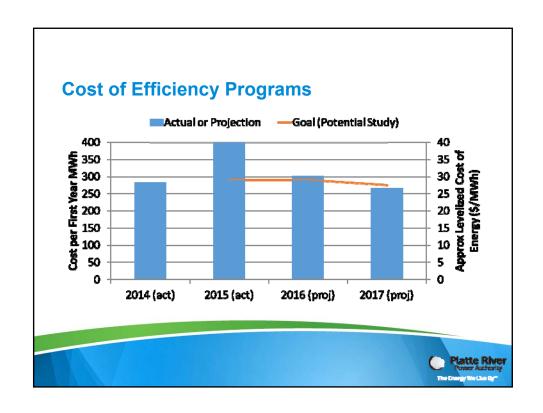


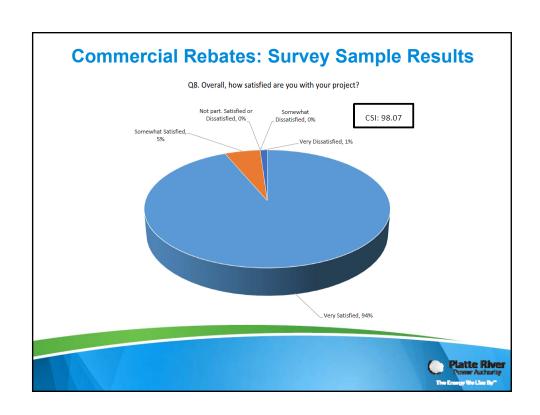


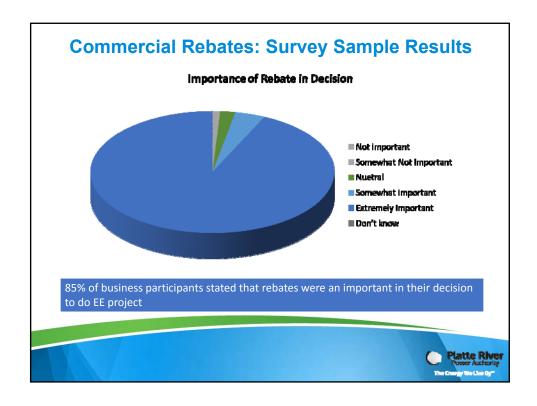
Rebate Levels & Program Budgets

- Portfolio level
 - · Achieve energy and demand savings targets
 - Spending within Platte River and municipality budgets
 - Other considerations
 - Spend up to 75% of efficiency cost premium
 - Offer something for each customer class (commercial, residential)
- Efficiency program / efficiency measure level
 - Rebates set high enough to interest customers and contractors
 - Rebate as percent of project cost
 - Rebate effect on customers' simple payback period
 - Some rebates may exceed implied portfolio \$/MWh as long as others are lower
 - · Helpful to spur interest in new efficiency measures
- · Collaborative effort among Platte River & city staffs









Efficiency Program Expansion

- · Expand EE program goals
 - Planning to ramp programs over five years
 - All achievable EE with lower cost than combined cycle gas (including projected CO₂ costs)
 - Energy savings goal: 0.5%/yr in 2015 \rightarrow 0.6%/yr in 2016 \rightarrow 1.3%/yr by 2020
 - Cumulative total load reduction by 2020: ~ 30 MW and 180,000 MWh
- Expand EE program budget (incentives and other non-staff costs)
 - \$2.4 million in 2015 \rightarrow \$3.3 million in 2016 \rightarrow ~\$10 million by 2020
 - 1% of retail revenue in 2015 \rightarrow 1.3% in 2016 \rightarrow ~ 3.3% by 2020
 - Boosted 2017 budget request by \$2 million (61%) over 2016 budget
- · Increase EE program staffing
 - +2 FTE since 2015 + potential need for added staff to continue program growth
- Continue collaboration with municipality EE staff
 - Municipalities' additional funding (Common Programs)
 - EE program planning and operational details
- Approval via Platte River board on annual basis





