Xcel Energy®

IDEA EXCHANGE
UTILITY AND COMMUNITY CONNECTION

Denver Regional Council of Governments

May 20, 2015

PRESENTATION AGENDA

- Energy Savings Programs
  - Why?
  - Xcel Energy Savings Goals
- How Rebate Programs Work
  - Cost/Benefit Test
  - Payback Criteria
- Current Programs
- Highlighted Programs
  - PIE (Partners in Energy)
- Renewables
  - Wind Source
  - Solar
- Infrastructure and System Growth

WHY DOES XCEL ENERGY DO THIS?

- Saves Customers money
  - Least Cost Alternative
- State Mandated
  - DSMCA
  - RESA
- Environmental stewardship
  - Lowers Emissions
- Xcel Energy receives an incentive to reach demand reduction goals.

ENERGY SAVINGS PROGRAMS

- **Xcel Energy CO Savings Goals**
  - 2014: Spent $89.4 M
    - Business Electric Savings: 244 GWhs
    - Gas Savings: 623,543 Dth (all programs)
    - Electric: 386 GWhs (all programs)
  - 2015: Projected to spend $81.6 M
    - Business Electric Savings: 261 GWhs
    - Gas Savings: 595,960 Dth (all programs)
    - Electric: 407 GWhs (all programs)
      - Account Management 170 GWhs
  - 2015/2016:
    - Plan filed with PUC: October 2014
    - Expected Approval: May/June 2015

- Visit www.XcelEnergy.com to verify program status

PROVEN SUCCESS

- **Public Service providers:**
  - **Government**
  - **Education**
- Retailers
- Larger property management companies
- Manufacturing
- Multinational corporations

CASE STUDIES

Segment	Government	University	K-12
Project Description	Data Center/Research Lab – New Construction	Multi-site Campus Efficiency Retrofit (including: Lighting, Controls & HVAC upgrades)	Elementary School - Building-wide Lighting Retrofit
Energy Savings	2,299,892 kWh	668,823 kWh	1,471,578 kWh
Demand Savings	546 kW	83 kW	746 kW
Rebate(s)	$260,000	$68,000	$391,500

HOW REBATE PROGRAMS WORK

- **Cost/Benefit Analysis:**
  - Custom Projects
    - Benefits are the reduction in Generation, Transmission and Distribution fixed costs
    - Project Costs
      - Engineering
      - Materials
      - Labor
        - » Not included: Freight and sales tax

HOW REBATE PROGRAMS WORK

- Cash rebates (not bill credits)
- Colorado business retail customers who buy their electricity and/or gas directly from Xcel Energy are eligible
- Customers must pay into the monthly Demand Side Management Cost Adjustment (DSMCA)
- Customer can assign rebate to alternate recipient

CURRENT BUSINESS PROGRAMS

- Business New Construction
  - EDA (20,000 sf min)
  - EEB (5000 sf min)
- Commercial Refrigeration
- Compressed Air
- Computer Efficiency
- Cooling Efficiency
- Custom Efficiency
- Data Center Efficiency
- Energy Analysis
- http://www.xcelenergy.com/Energy_Solutions/Rebate_Finder_Tool
- Energy Management Systems
- Lighting Efficiency
- Motors and Drives
- Process Efficiency
- Recommissioning
  - Building Tune-up
  - Refrigeration RCx
- Self Direct
- Small Business Lighting

These programs provide up to $0.04 / kWh and $4.00/ Dth

ENERGY SAVING PROGRAMS FOR RESIDENTIAL

- Audits
- Lighting (LED)
- Heating
- Cooling
- Energy Star Appliances
- Weatherization
- Insulation
- Refrigerator Recycling
- Saver Switch
- Water Heaters
- Evaporative Cooling
- Heat Pumps

www.xcelenergy.com/Energy_Solutions/Rebate_Finder_Tool

PARTNERS IN ENERGY (PIE)

- Community wide program
- Sustainability Goals set with Xcel Energy
- Xcel Energy provides consultant service
- Data sharing to help reach goals
- Program representation and management

RENEWABLES

- Xcel Energy is working to meet Colorado's 30% renewable energy standard by 2020.
- By plugging in, Colorado business are powered by renewable energy. (22% now)
- #1 Wind energy provider in the USA with more than 2600 megawatts on our Colorado system
- Top 10 Solar producer in the US with 320 megawatts on our system (approximately 90 MW in Colorado) with another 170 MW planned in Colorado by 2016 and 380 more in our other territories.

- Non – Solar REC
  - Small wind
  - Small hydro
  - $1.25 / MWh (2MW Cap)
- Solar* Rewards
  - Roof top
  - 120% of prior year usage or estimated usage
- Solar * Rewards Community
  - Subscribe to a Garden
  - 120% of prior year usage or estimated usage
- Windsource
  - 100 kWh blocks ($2.16/ block)
  - 1 year or 3 year terms

WINDSOURCE

- Windsource is a voluntary program providing customers the choice to purchase renewable energy for their homes and businesses
- The energy that supplies Windsource is generated by Xcel Energy's 2,200 MW of wind, and goes above and beyond other renewable requirements
- Windsource renewable energy credits are Green-e Energy certified and retired on behalf of our customers, making them non-transferable
- Windsource is sold in blocks of 100 kWh; the price per block is $2.16
- Signing up for 100% Windsource equates to about a 20% increase in your monthly electric bill

WHY CHOOSE WINDSOURCE

- Join a community of over 35,000 Colorado homes and 650 businesses powered by wind
- Business can use Windsource to
  - Meet environmental compliance targets
  - Receive LEED certification points
  - Position their company as an environmental leader and enhance public image
- Support a domestic energy source that helps preserve our natural resources for the future
- Wind energy has real economic benefits - installing and maintaining wind turbines creates jobs, income for land owners, and tax revenue

SOLAR*REWARDS

- Solar*Rewards is a distributed generation PV roof top solar program which provides residential and commercial customers the choice to own or lease panels

- The program has been in existence since 2006 with over 28,529 systems installed, totaling over 263 MW

- **Want to learn more?**
  You can get the basics on how solar power works, or scan through the rest of our solar energy info on our website

CURRENT INCENTIVE OFFERING (PERFORMANCE BASED)

- Small program (.05 - 25 kW)

Year	Capacity Allocation Offered (@2 MW per MONTH)	PBI per kWh Customer Owned/ 3rd Party
2015	24 MW	$.02/$.01
2016	24MW	$.02/$.01
2017	TBD	TBD

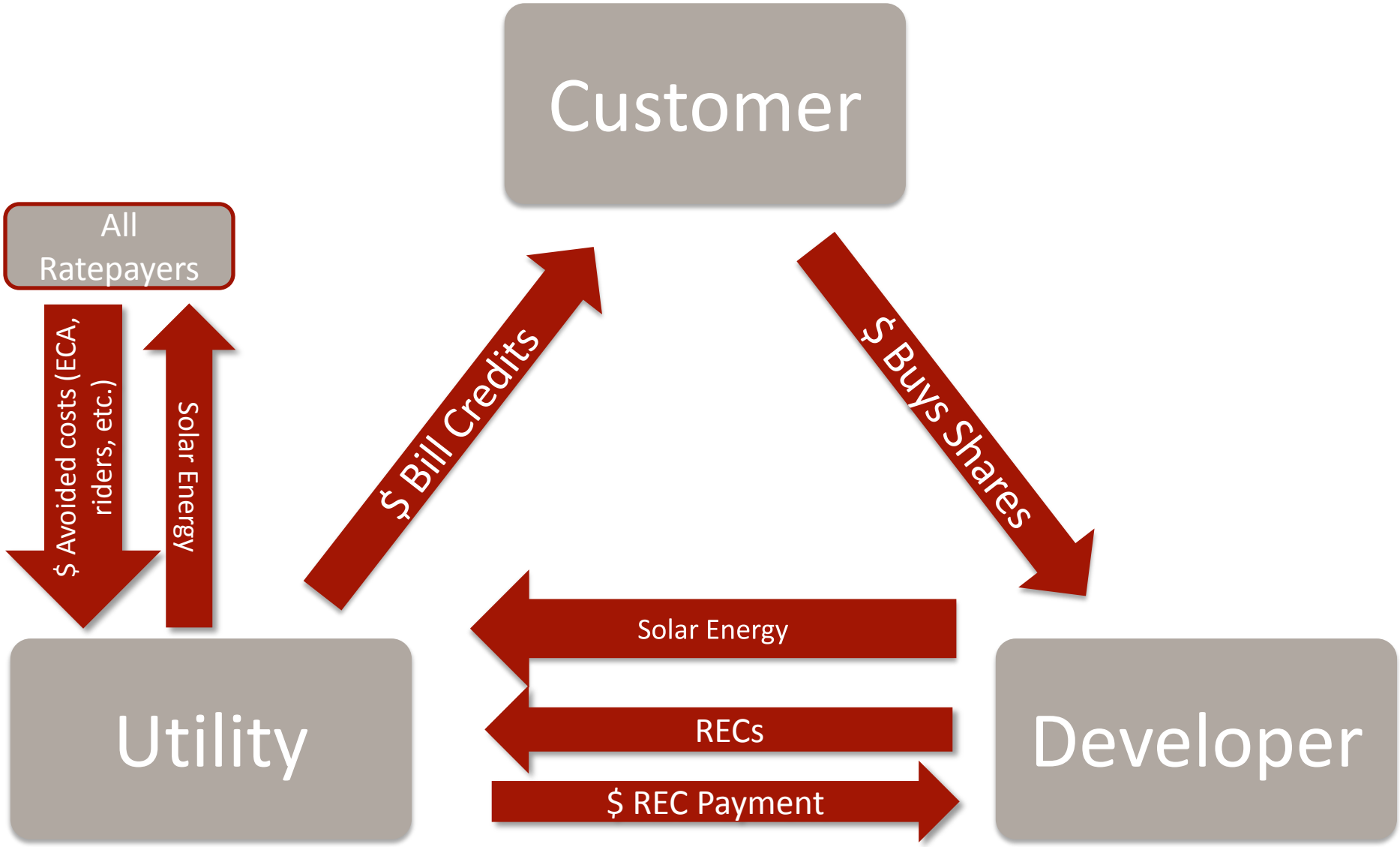
- Medium program (25.01 - 500 kW)

Year	Capacity Allocation Offered (@3 MW per QUARTER)	PBI per kWh Customer Owned/ 3rd Party
2015	12 MW	$.05/$.05
2016	12 MW	$.05/$.05
2017	TBD	TBD

SOLAR*REWARDS COMMUNITY

- Launched in 2012, the SRC program gives Colorado customers another choice to participate in renewable energy
- Customers can purchase renewable energy through solar project developers from a community-based photovoltaic system
- Developers install community solar installations and receive production incentives from Xcel Energy. They, in turn, sell or lease shares of the garden to subscribing customers in their communities under terms and conditions they create.
- Subscribing customers receive bill credits from Xcel for their share of the solar garden's electricity production

SRC RELATIONSHIP FLOW CHART



INFRASTRUCTURE TO SUPPORT COLORADO'S GROWTH

- Pawnee Daniels Transmission
  - http://www.xcelenergy.com/Company/Transmission/Transmission_Projects/Pawnee-Daniels_Park_Transmission_Project
- Thornton Substation
  - http://www.xcelenergy.com/Company/Transmission/Transmission_Projects/Thornton_Substation_Project
- Gas Services AMRP
  - http://www.xcelenergy.com/Company/Operations/Projects_and_RFPs/Accelerated_Gas_Main_Replacement_Program

CONTACT US

Colorado Community Relations

- Kirk Scheitler william.k.scheitler@xcelenergy.com
  - Denver
- Craig Eicher craig.l.eicher@xcelenergy.com
  - Boulder
- Todd Anderson todd.anderson@xcelenergy.com
  - Northern Colorado / High Country
- Tom Henley tom.henley@xcelenergy.com
  - South /East Metro and Plains
- Preston Gibson preston.e.gibson@xcelenergy.com
  - North West Metro to Eisenhower Tunnel
- Ashley Valdez ashley.r.valdez@xcelenergy.com
  - Southern Colorado (SLV)
- Kelly Flenniken kelly.flennikin@xcelenergy.com
  - Western Colorado

www.xcelenergy.com

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