

Working Group: Energy Services	
<p>Purpose <i>The Energy Services working group will collaborate with city staff to develop an energy services plan for a new Boulder electric utility. Energy Services include:</i></p> <ul style="list-style-type: none"> • <i>energy efficiency</i> • <i>demand response</i> • <i>distributed generation</i> • <i>green pricing programs (e.g. voluntary wind energy purchase)</i> • <i>enhanced backup, power quality and redundancy services</i> • <i>energy management to facilitate customer choice behind the meter</i> • <i>behind the meter research, development and innovation projects</i> • <i>financing options (e.g. on-bill financing)</i> • <i>data analysis and interpretation to help end users better understand their energy usage</i> <p><i>Energy Services will be designed to provide consistent and valuable services to all sectors: commercial/industrial, residential, and low/fixed income customers. The Energy Services plan will include two phases 1) services that will be offered on “Day 1”, the point in time in which Boulder owns and operates electric distribution system assets, and 2) services that will be offered beyond Day 1. The Energy Services plan for beyond Day 1 should include a phased approach to offering services and define what infrastructure, policy, organizational structure, etc. needs to be in place to offer these new services. The focus of this working group will initially be on Day 1 to ensure a smooth transition, while doing brainstorming for “beyond” in parallel. It is envisioned that the group will consist of 10-15 members appointed based on their skills and qualifications.</i></p>	
Anticipated meeting schedule	<p>Recruitment period : Through November 7, 2014</p> <p>Duration: December 2014 to June 2015</p> <p>First meeting: December 8, 2014 (tentative)</p> <p>Meeting frequency: Monthly; could be more frequent based on group needs. There will be research and analysis outside of meeting times.</p>
Key Questions/Issues to be Discussed by the Group	<ul style="list-style-type: none"> • What are the goals and objectives of Energy Services for each customer segment? • Identify best practices and emerging trends for Energy Services • Define Energy Services to offer on Day 1 and beyond • Define a method to account for energy efficiency and demand response in long term energy resource planning
Tasks & Analysis	<ol style="list-style-type: none"> 1) Define overall Energy Services objectives 2) Research best practices in energy services including: <ol style="list-style-type: none"> i) Innovative utility business models that offer energy as a service ii) Issues around revenue erosion resulting from declining energy sales iii) Interface with technology, customer service, rate design, tariffs 3) Develop Day 1 service offerings <ol style="list-style-type: none"> a) Review gap analysis between current Xcel offerings and city offerings; determine what current Xcel services need to be maintained

	<ul style="list-style-type: none"> b) Identify and review analyses needed to recommend energy services to deliver on Day 1 c) Develop recommended energy services to deliver on Day 1, including a process for measurement and verification. <p>4) Develop Energy Services beyond Day 1</p> <ul style="list-style-type: none"> a) Identify analyses, framework and methods needed to select energy services (criteria such as penetration rates, cost/benefit, timeline, carbon goals, options for all sectors, impact to load requirements and power supply, impact on distribution operations, targets) b) Identify modeling tools needed including a plan for assessing energy and demand impacts c) Identify base assumptions, inputs, and plan for populating data d) Review analyses e) Develop recommended energy services to deliver beyond Day 1 including a process for phasing.
<p>Deliverables/ Milestones</p>	<ul style="list-style-type: none"> • Energy Services objectives • Best practices summary • Recommended Day 1 energy services • Recommended energy services beyond Day 1 • Analysis framework and methods for modeling the impacts on utility load from energy services (for Day 1 and beyond)
<p>Desired Skills or Representation</p>	<ul style="list-style-type: none"> • Demand response • Program design and measurement and verification (M&V) for behind the meter energy programs • Hourly utility load modeling and associated software expertise • Innovative utility business models that offer energy as a service • Budgeting, financials, tariff design for energy services
<p>Other Working Groups to Potentially Link With</p>	<ul style="list-style-type: none"> • Resource Acquisition: Coordination with hourly utility load modeling and local generation services • Rates: Coordinate on any energy services that will need special rates or tariffs • Reliability: Coordinate with any proposed energy services that offer enhanced reliability • Customer Experience: Coordinate any energy services that would provide useful data or data analysis to the customer as well as how customers interface with services