

Strategy	City Cost Description	City Cost Low/Med/High Comments	City Cost \$/yr (Low)	City Cost \$/yr (Med)	City Cost \$/yr (High)	General Comments
Denver Climate Support - Strategy Detail Net Zero Energy New Construction Commercial & Multi-family						
Goals: NZE Code by 2035						
Incentives						
Development incentives for following Denver Green Code (non monetary) - Height incentive / density bonus - Reduced parking requirements - Expedited review - Others to be defined	City of Denver staffing time - Staff time to develop density bonus and parking reduction requirements - Staff time to confirm each building pursuing this is complying with the requirements at permit for additional projects going through the Green Code Review - Staff time to verify actual performance (if required)	High cost - 50-75% of new development square footage pursues this option - (2) Full time Engineer - Architect staff Medium cost - 25-50% of new development square footage pursues this option - (1) Full time Engineer - Architect staff Low cost - 25% or less of new development square footage pursues this option - (0.5) Full time Engineer - Architect staff	\$90,000	\$180,000	\$360,000	Voted #1 Key questions - Penalty if performance is not there? - How to verify actual performance? - Market acceptance?
Design and construction team incentives - Incentive for the increased time requirement for designing a NZE building - NZE charrettes - pEUI modeling - Cx, MBCx, enclosure Cx - M&V	City of Denver staffing time - Staff time to develop incentive amounts and requirements - Staff time to administer incentive program - Marketing budget Incentive options - Flat fee - Performance based - What amount of incentive is required for high level of participation Cost to team estimates - NZE charrettes: \$10k per building or ~\$0.10/sf - pEUI modeling: \$10-20k per building or ~\$0.15/sf - Cx code required, beyond code: ~\$0.05-\$0.10/sf - Enclosure Cx code require, beyond code: ~\$0.05-\$0.10/sf - MBCx / M&V cost to team: \$20-30k per building or ~\$0.25/sf \$0.60-0.70/sf total cost add for services	High cost - 50-75% of new development square footage pursues this option - (2) Full time Engineer - Architect staff - 100% of cost to team (~\$0.60/sf) - 4.4 million sf of commercial space per year for next 5 years (7 million total) Medium cost - 25-50% of new development square footage pursues this option - (1) Full time Engineer - Architect staff - 50% of cost to team (~\$0.30/sf) - 2.6 million sf of commercial space per year for next 5 years (7 million total) Low cost - 25% or less of new development square footage pursues this option - (0.5) Full time Engineer - Architect staff - 25% of cost to team (~\$0.15/sf) - 1.8 million sf of commercial space per year for next 5 years (7 million total)	- Staff: \$90,000 - Incentives: \$270,000 - Total: \$360,000	- Staff: \$180,000 - Incentives: \$780,000 - Total: \$960,000	- Staff: \$360,000 - Incentives: \$2,640,000 - Total: \$3,000,000	Voted #2 Key questions - Penalty if performance is not there? - Does the incentive need to be tied to performance? - Market acceptance? - Is M&V too far out for design teams? - Risk to the City? Design team's job to provide this, might not change developers mind
Permit fee reductions for following Denver Green Code	City of Denver staffing time - Staff time to confirm each building pursuing this is complying with the requirements at permit - Staff time to verify actual performance (if required) Permit fee reduction - 50% reduction in fees - Average cost of construction in Denver \$150/sf - Fee of about \$0.005 times total construction cost or \$0.75/sf - \$0.375/sf fee reduction	High cost - 50-75% of new development square footage pursues this option - (2) Full time Engineer - Architect staff - 4.4 million sf of commercial space per year for next 5 years (7 million total) Medium cost - 25-50% of new development square footage pursues this option - (1) Full time Engineer - Architect staff - 2.6 million sf of commercial space per year for next 5 years (7 million total) Low cost - 25% or less of new development square footage pursues this option - (0.5) Full time Engineer - Architect staff - 1.8 million sf of commercial space per year for next 5 years (7 million total)	- Staff: \$90,000 - Fee reduction: \$675,000 - Total: \$765,000	- Staff: \$180,000 - Fee reduction: \$975,000 - Total: \$1,155,000	- Staff: \$360,000 - Fee reduction: \$1,650,000 - Total: \$2,010,000	Key questions - Penalty if performance is not there? - Market acceptance? - Increase regular fees to pay for this?
Cash rewards from City - For efficiency technology (HVAC, controls, lighting, etc) - Renewables - Storage - Electric hvac and water heat - Performance (meeting NZE) - Land purchases for NZE buildings	Cash reward, increased staffing for distributing and confirming participation, and increased staff time for NZE contract documents. City of Denver staffing time - Staff time to develop incentive amounts and requirements - Staff time to administer incentive program - Marketing budget Performance reward impact - Energy efficiency reward: ~\$5 to \$1.25/sf - PV: ~\$10/sf - Would energy efficiency incentive duplicate Xcel EDA incentive? - Federal tax credits for PV	High cost - 50-75% of new development square footage pursues this option - Xcel EDA participation is estimated in this range - (2) Full time Engineer - Architect staff - \$5/sf - 4.4 million sf of commercial space per year for next 5 years (7 million total) Medium cost - 25-50% of new development square footage pursues this option - Performance incentives - (1) Full time Engineer - Architect staff - \$2.5/sf - 2.6 million sf of commercial space per year for next 5 years (7 million total) Low cost - 25% or less of new development square footage pursues this option - Performance incentives - (0.5) Full time Engineer - Architect staff - \$1.25/sf - 1.8 million sf of commercial space per year for next 5 years (7 million total)	- Staff: \$90,000 - Incentives: \$2,250,000 - Total \$2,340,000	- Staff: \$180,000 - Incentives: \$6,500,000 - Total \$6,680,000	- Staff: \$360,000 - Incentives: \$11,000,000 - Total \$11,360,000	Voted #3 Key questions - Penalty if performance is not there? - Market acceptance? - How to get NZE in contract? - How does land purchase reward work?
NZE certification incentives - Highly subsidize the certification fees	Incentive cost and increased staffing for distributing and confirming participation. City of Denver staffing time - Staff time to develop incentive amounts and requirements - Staff time to administer incentive program - Marketing budget Incentive cost for certification fees - ILFI Net Zero Certification fees are ~\$0.04/sf Dependant on the size and market utilization of the incentives but most likely low costs due to low participation.	High cost - 15% of new development square footage pursues this option - Xcel EDA participation is estimated in this range - (1) Full time Engineer - Architect staff - 100% of cost to developer (~\$0.04/sf) - 1.05 million sf of commercial space per year for next 5 years (7 million total) Medium cost - 10% of new development square footage pursues this option - Performance incentives - (0.5) Full time Engineer - Architect staff - 100% of cost to developer (~\$0.04/sf) - 0.7 million sf of commercial space per year for next 5 years (7 million total) Low cost - 5% or less of new development square footage pursues this option - Performance incentives - (0.25) Full time Engineer - Architect staff - 100% of cost to developer (~\$0.04/sf) - 0.35 million sf of commercial space per year for next 5 years (7 million total)	- Staff: \$45,000 - Incentives: \$14,000 - Total \$59,000	- Staff: \$90,000 - Incentives: \$28,000 - Total \$118,000	- Staff: \$180,000 - Incentives: \$42,000 - Total \$222,000	Key questions - Market acceptance? - How many certifications? Cost vary significantly.

