SI Team	Strategy	
Energy	Strategy: Business Efficiency Portfolio	
Efficiency	 Opportunities: New standards and codes More frequent updating of energy codes, and possibility of creating city based voluntary energy conservation programs New construction will result in ongoing energy savings using energy efficient construction over lowest first cost construction Straightforward. with our forward-thinking City/utilities staff leading the charge, our code should continue to evolve and be more aggressive benefits all seems easy to implement new technology 	 Barriers: Builder's perceptions Monitoring compliance with new energy codes could be difficult Convincing owners and buyers that the life cycle cost really does have value over lowest first cost for construction Curious if there's been struggles in the past with attaining desired stringency in the bldg code Resistance from builders and developers; projects outside the city but in the GMA? Increased cost to affordable products
	 Strategy: Business Energy Scoring Opportunities: Ubiquitous adoption, required disclosure in advertising Provides bench mark data to determine where community is regarding building energy performance. May uncover best practices for building operation that can be leveraged. part of this team so my pros and cons were addressed long-term benefits in seeing a buildings energy performance 	 Barriers: City Manager's office obstruction Equal participation may be hard to achieve Access to data, ability to make study results available (privacy issues). Love this. curious how it gets implemented (i.e. are homeowners on hook to pay for a HERS rating) huge initial effort for building owners
	- Strategy: Business Efficiency Portfolio	
	 Opportunities: On-bill financing for tenants Huge potential for energy reduction! Expansion of existing program would make implementation easier. Improve Energy efficiency Rebates make adding energy efficient upgrades when doing routine replacements/installs Great to see Efficiency Works continuing on. Provides businesses with details that may not be readily available We know how to do it, can get very focused and make progress fast Greatest GHG reduction out of all strategies. Great impact on overall health of city. Cost effective strategy. 	 Barriers: FCU billing system and staffing Time, Efforts, and Costs associated Non-technical decision makers may not be comfortable with the technology or have confidence in the savings. Fully confident that program will be sufficiently/more funded moving forward? apples vs olives scaling up delivery of the "service" Upfront costs to businesses in order to meet benchmarks.

	Strategy: Home Efficiency Portfolio	
	Opportunities:	Barriers:
	 Market research and proper marketing 	 Lack of marketing professionals
	- Public awareness and community involvement is	- Time and money
	an essential aspect	- Getting started, need some quick wins to generate
	 Improve energy efficiency 	excitement
	 Neighborhood may attract more participation 	 Cost is always a consideration when balancing
	through relationships & best practices	energy efficiency with development budgets.
	 Affordable housing under the Low Income Tax 	-
	Credit program requires Enterprise Green	-
	Communities to be followed. As a result, FCHA's	
	new and rehabilitated units are meeting	
	efficiency requirements in addition to Green	
	Code requirements.	
	-	
	-	
	Strategy: Street Lighting Upgrades	Γ
	Opportunities:	Barriers:
	- Scheduled replacements or repairs should leverage	- High implementation costs for relatively low GHG
	the new technology	reduction
	- Part of this team so my pros and cons were	- Costs of upgraded equipment
	addressed	 perceived cost/benefit ratio
	- Visible to community - I think this is great because it	-
	is one strategy that people will "see" and	-
	"experience" - even if the GHG reductions are low,	
	the community will see and believe "we" are doing	
	something. Can't get that insulating houses	
S.I. Team	Strategy: Increase Bicycle Ridership	
Multi-Modal	Opportunities:	Barriers:
Planning &	- Reducing VMT is a key component of GHG	- Only works for the young and fit demographic
Development	reduction	- Safety on the streets used to bike to work
	 Expand the low stress network during routine 	- Curious why such big TRC and Societal Costs, and
	maintenance.	what they entail. I might also call out local
	 Tie in with safe routes to schools programs 	businesses as a key partner since the Zagster bike
	 Plenty of momentum & enthusiasm from 	share business model the City selected seems to be
	residents & businesses alike	dependent largely on private rather than public
	 More healthy happy people 	funding in order to succeed.
	-	 Perceptions of safety - access in places such as
	-	along Harmony Road - it's a raceway
		-
	Charles and Income Dedicated - Note - 1	-
	Strategy: Improve Pedestrian Network	Development
	Opportunities:	Barriers:
	- Gets cars off the road	- Culture shift – resistance
	 How does this tie into safe routes for schools 	- Cost per walker
	programs	 Curious why such big TRC and Societal Costs, and what they antail
	 Good visible project for the community - lots of co-benefits 	what they entail.
L		

Opportunities: - Will improve air qu - Community satisfad less vehicle emissio - Great to see this as seems to be an incu- grows - Signal timing wins n - Reduce GHG reduc at the same time. - - Strategy: Change Land L	ality and benefit public-ction - faster commute timesons-a proactive strategy, as it-reasing issue as population-many friends-tion and improve traffic issues-Use Patterns with New Plans	riers: Upgrade disruptions Three strategies all wrapped in this one. Could lead to confusion or competition within the strategy for priorities Implementing changes in a timely manner and keeping up with population growth.
 category of focus in and local NPOs wour related efforts with funding. Working with neigh Reducing VMT and plans is beneficial Increased land use destinations closer transportation to a An awesome future By shortening trips 	dded Smart Growth as a - n our philanthropy program, - n our philanthropy program, - n our philanthropy program, - nin the City may qualify for - nboring communities - readdressing current city - density can make - and allow alternative - ccess needed services - and reducing the need - tential to benefit all - expenses and -	riers: Costs - upgrade disruptions Developers need to buy in so new uses are constructed Retrofitting existing poor patterns - creates inequities? Changing habits on a large scale.
access to destination - For those living out the options when v	funding district - nsit equipment - increased - ons - sside of Fort Collins, what are - vorking in Fort Collins development sites with -	arriers: Inertia of government High cost for undetermined community usage Community buy in Public transportation is not currently viable for many low-income households who still must rely on their own transportation. Is this still in the "chicken or the egg" phase? are there places that having a bus route to would actually result in increased ridership, or is this a long term goal that happens once the City has more transit-oriented neighborhoods like Old Town Cost - Sunday service - getting people to actually ride the bus for everyday activities (need increased frequency) but, we don't have enough riders yet

	Strategy: Trip Reduction Programs	
	 Opportunities: Implementation of a ride sharing program in partnership with CSU would be beneficial! (especially with their lack of parking spaces due to construction) Neighborhood targets with the home energy efficiency program 	Barriers: - Culture - folks are dependent on having a car available - -
S.I. Team	Strategy: Community Shared Solar	
Clean Energy	 Opportunities: more CEC Alternative energy sources should be introduced Chance to participate in renewable energy for population that does not own residence or business property There is an opportunity to develop large solar farms with individuals and groups buying in and sharing the cost on a pro rata share. Larger private businesses likely have interests in - but not land available for - solar investment via a model that allows them to claim the env attributes and reduce their own Scope 2 (&1) emissions Anyone with \$ can participate 	 Barriers: I'm asking myself that same question Locations for the solar farms Curious to learn more about the mentioned incentives and likelihood of approval. Takes \$ to participate -
	 Strategy: Solar Power Purchase Program Opportunities: Gets renewables installed w/o first time investment costs. There is an opportunity with solar tax credits for affordable housing to install solar and realize a return on investment from both the tax credit equity investor and the City's SPPP. Great and well-recognized program. Is CPACE approved in Larimer County? Climate and space Utilities has control - they like that 	 Barriers: Solid partners to construction and operate equipment Currently there is not enough funding and the awards are based on a lottery versus an in-depth underwriting process. Business ROI Limited opportunity given limited utilities funding -
	 Strategies: Utilities Rooftop Solar Incentives Opportunities: Already committed population targeted Climate and space Get more citizens involved in the game or renewable energy! - 	 Barriers: Existing infrastructure may not be easily expanded Curious to learn more about the mentioned incentives and likelihood of approval. Business ROI Incentives get too small to inspire adopters? -

	Strategies: Power Purchase Agreement for CSU CHP Plant	
	 Opportunities: CSU accounts for a substantial amount of our energy use and GHG emission. This partnership plan would be extremely beneficial in reducing GHG emissions. Great partner to implement and manage ongoing operations potentially good location for deployment of this strategy 	Barriers: - Business case that will prove itself over time - Cost, PRPA contract (?), NO2 (?) - -
	Strategies: PRPA Renewables Generation	
	 Opportunities: 100% renewable Utility likely needs to expand capacity as community expands PRPA has dispatchable control High GHG reduction. 	 Barriers: Lack of leadership Costs How strong is their commitment to more renewables in mix beyond existing and Rawhide Flats? look forward to hearing how the convo is progressing with PRPA PRPA :) and FC is only one city of four, we need allies! Eliminating coal-fired power sources and integrating new systems (solar and wind) effectively
S.I. Team	Strategy: Construction and Demolition Sorting Facility	
Road to Zero Waste	 Opportunities: Great opportunity for small business partnership Central community location for recycled materials Strong local partners & knowledge in construction waste recycling, such as Waste-Not. Great idea - needed 	 Barriers: Convenient location, might be making two trips to deal with waste over one to the landfill Sounds messy, complex, and expensive
	Strategy: Municipal Biomass Burner Feasibility Study	
	 Opportunities: Use waste to make energy rather than bury it. Learn from other municipalities; beetle kill fuel source Figure out if it is a viable idea 	Barriers: - Business case that supports the strategy - Title V - A few bucks? - -
	Strategy: Municipal Biomass Burner	
	Opportunities: - Use to heat swimming pools - Dealing with lots of dead trees instead of landfilling - -	 Barriers: Site location not object able to neighbors Not a barrier but a comment, is the biomass really currently ending up in a landfill? Seems to be what the "other benefits" states? Start-up costs & timing, operational consistency, what to do after the "crisis"?
	Strategy: Drake Water Reclamation Facility Co-Generation	n Site
	 Opportunities: Implementation of a recapture system would allow us to convert "waste" into energy Might reduce heat introduced to the river Anaerobic generation of methane to fuel power generators Get more organics out of the landfill 	 Barriers: Cost, technology Careful selection of co-gen system that will perform well with limited maintenance requirements over time is crucial. New Belgium has experienced multiple issues with our engine powered off our PWTP biogas. Title V Getting other large commercial kitchens / restaurants to install pulpers

	Strategy: Neighborhood Food Scraps Composting	
	Strategy: Neighborhood Food Scraps Composting Opportunities: Barriers: - Might be useful at the water reclamation facility - Collection, storage, and transportation - Love this idea. Connecting neighbors via the next door app could be added to the arsenal of ways to engage & get the word out. - Currently composting is limited in vendors and extremely costly to do, need to make sure this is affordable - Makes people feel good -	
	-	
S.I. Team	Strategy: Water Treatment Facility Hydropower	
Water & Land Use	Opportunities: Barriers: - Augment solar during the night - cloudy days - Cost to benefit - project payback - Use a resource at our disposal - Dam - - Willpower? - -	
	Strategy: Carbon Sequestration through Enhanced Tree Health	
	Opportunities: Barriers: - Enhances outdoor recreation - Weather influences - water to support the trees - Beautification of the city - Real quantification? - Build on great tradition of open space and land conservation - Urban growth pressure - -	
Suggestions for better communication and/or overall organization of the strategies?	 Making sure the average community member can understand the terms for PAC, TRC and SC tests, can the average citizen understand the one page summaries - I tried something similar at a school district & was shocked at how simple I thought the graphics were and how complicated the community made it For a first appearance, I think it was laid out very well and was very easy to follow and understand. Maybe a one page "index" of all the categories / strategies A bit more detail, but I assume that's to come. I understand that a much longer document would've been cumbersome at this introductory stage for the CAC, and I appreciate us not having been given a 200-pg document to review. In some cases, however, the very brief descriptions of each strategy provide a limited understanding of how they might be implemented, and therefore make it tricky to provide meaningful insight on barriers & opportunities. 1) Cost tests are confusing to me. 2) Unclear whose job it is to implement the strategy. When, where (or how) is it the City, a business, or a citizens job to do to adopt or participate? Maybe we need a line for "Responsible party" - and maybe sometimes that says "shared" or "all". We might want to be clear, what are you (the City) doing for me & what do I (the citizen) need to do for you? 3) these strategies add up to 468,500 MT of reductions that is 20% below baseline given the 	
	 BAU If we don't "get" the PRPA related assumptions outlined on pages 28-29 of the Framework - will we be hung out to dry for failing? This is confusing and complicated - we need to be very clear about what these strategies might deliver and how they are a still just a component of the larger Framework of things we need to have happen to get to 80 reductions by 2030. We can't over-promise or misrepresent what these strategies are likely to achieve. 7. I appreciate the structure of the CAP Strategic Plan. It is very easy to follow. One suggestion is to create a pie chart for each section (i.e. Energy Efficiency) representing the GHG reductions for each strategy (i.e. Energy Code Performance, Building Energy Scoring, etc.) w/in each section. 	
la thang area	8. Perhaps a better sense of the size of the homework - pages and hours estimated for review.	
Is there any additional information you would like?	 Perhaps a couple moments spent on the terminology used in the Cost Tests. For Total Resource Cost, how are you defining "the incremental measure costs" and "monetized emissions savings." And does "monetized emissions savings" mean that you've modeled what costs would be in a typical/most-likely carbon tax scenario? For Societal Cost Test, I'd like to be sure we're all clear on what is meant by "benefits that are not currently valued by the market, externalities" and the "social discount rate." 	
	2. I might appreciate a little coaching and information on the types of costs tests, not sure I get all the language.	