



Energy & Buildings TWG Meeting #3 Summary

Thursday, May 24, 2018

9:00-11:00 PM

1400 S. Flores Main Conference Room

Facilitators: Danielle Vitoff (Navigant)

Introduction Presentation

- Goal of the meeting: vote on broader mitigation goals that should be included in the plan; big-picture visions rather than specific strategies
- Reviewed CAAP timeline: GHG baseline is mostly completed with some minor refining to do and starting to develop future scenarios
- Provided examples of other CAAP frameworks for reference:
 - NYC's 1.5 Degree Plan for its evaluation of co-benefits and incorporating equity in metrics
 - New Orleans' Plan for its broad, audacious goals with a focus on resilience; focuses on vision and actions and not implementation
 - Climate Smart San Jose for its "Three Pillars" approach
- Comments:
 - We have already done big, broad-based plans. We need specific strategies./Response: Specifics can be rejected; we need to produce a politically palatable document if we want a budget and funding to follow. There will be strategies and actions in the end, but we need to find a balance.
 - I worry that if the plan passes without specifics, the document will be meaningless. I want to make sure that these ideas are taken seriously and that it will be implemented./Response: A Climate Action Plan is not the same thing as an implementation plan. The implementation plan will have budget allocation.
 - I am not convinced that we should be "technology neutral". The plan should be updated on some sort of schedule, so we can write in technologies and change them later.
 - Q: How do we know that the strategies proposed will be implemented?/A: The plan can include a calendar and process diagram. Ultimately, the Mayor and Council will have the responsibility to make sure the CAAP moves forward. Staff must update them consistently. We need to build accountability into the plan. The CAAP can include a methodology around implementation and calendar of how the CAAP gets updated.
 - A citizen advocates group might help keep the CAAP in elected officials' sights, similar to Mission Verde.
 - Q: Will TWGs continue to meet after the plan is developed?/A: We will need to have a conversation about that when the plan is implemented.

Measure Brainstorm

- Prompt: *What components are critical to San Antonio's climate action strategy around energy and buildings?*
- TWG were asked to write their responses on Post-it notes to the question and stick them on easel pads under the categories of personal/institutional practices, codes/standards, programs, smart cities, social/quality of life, and other (see images below)
- Responses were reviewed and some were re-categorized and clarified.
- Most responses were clustered around programs, followed by codes & standards, practices (personal and institutional), smart cities, and social/quality of life.

GHG Reductions

- Scan of Past & Current Plans
 - Examined 31 plans to attempt to quantify GHGs. Suggestions for this planning process include increasing GHG awareness; developing/applying methods for estimating GHG emissions; emergency management must include fuel shortage possibility in planning; expand funding for non-auto options; leverage land use to reduce congestion and vehicle miles travelled; assess proposed projects for GHG impacts
 - Make sure we have the right agencies/policies/processes to reduce GHG emissions
- Shared SA Tomorrow Sustainability Plan strategies related to energy & buildings
- Draft 2040 Community Emissions
 - Discussed 4 possible GHG emissions projections compared to 2016
- Comments:
 - Q: Do the 2040 projections take mitigation strategies into account?/A: No, not in these projections.
 - The TWG should have a chance to provide comments about the GHG reduction target before June 29th. We should be advising the Steering Committee. Also, we need a meeting where we can discuss the GHG inventory.
 - We need more granular detail from CPS Energy about power plant retirement dates.

Measure Prioritization

- Consider four elements to prioritize proposed measures
 - GHG Impact: Does the measure have to potential for low, medium, or high GHG emissions reductions?
 - Equity
 - Ease of implementation: Is the measure hard or easy to implement? Does implementation require a small or large number of stakeholders?
 - Cost of implementation: Is the implementation cost low or high, when including cost borne by all stakeholders?
- The ideal measure will have potential for high GHG emission reductions, be equitable, easy to implement, and low in cost
- Activity: measure the four criteria, vote for your top three with colored dots (all dots weighted equally, colors have no meaning), and review the top 3-5 measures through voting
 - Results: Votes clustered around green building codes/more aggressive codes, commercial building benchmarking ordinance; expanding STEP and PACE; education; phasing out fossil fuels; consider lifecycle of methane emissions. Some TWG members would have used a fourth dot to vote for time-of-use and tiered pricing for electricity rates. (See photos below for results of prioritization activity.)

Meeting Wrap-up

- Homework for next meeting due TBD:
 - Work on drafting language to clarify top 3-5 selected goals
 - Look for request to provide input on cost-benefit analysis
- Feedback to be sent to lisa.lin@sanantonio.gov or danielle.vitoff@navigant.com
- The next meeting is an online meeting on Thursday, June 28th from 9:00-10:00am. The 1400 S. Flores Main Conference Room will be reserved at that time if you would like to watch it as a group.

Public Comment

- Q: Why are we time-bound?/A: We are trying to get the plan passed during this political term.

SOCIAL / QUALITY OF LIFE

IMPROVED GREEN ROOF INCENTIVES

ROOF INCENTIVES

Cool Roofs

COOL ROOFS

VEGETATED ROOFS WHITE ROOFS

VEGETATED TOP FLOOR OF PARKING GARAGES
REDUCE URBAN HEAT ISLAND EFFECT

EDUCATE PUBLIC/STAKEHOLDERS ABOUT EXISTING TOOLS (SOLAR, EPS, etc) TO IMPROVE THEIR BUILDINGS + SAVE ENERGY/WATER

EDUCATION

BEHAVIOUR SHIFT

Encourage telecommuting + flex work schedules

IMPROVED STREETS/SIDWALK TO PROMOTE WALKING W/ MORE TREES

CITY PRIDE IN CONSERVATION & EFFICIENCY

STOP ASSUMING THE PEOPLE OF SAN ANTONIO DON'T CARE ABOUT CLIMATE CHANGE

SMART CITIES

Economic common sense

Smart meter data, requires access to real-time kW/kWh data for all buildings

Incentives/make business case to retrofit existing buildings w/ BMS/BAS

Linking BMS, BIM + Blockchain for New Construction + Existing Buildings

Distributed energy storage program. CPSE has operational control

Incentives for affordable housing near transit corridors

EFFICIENCY SHOULD BE MAINSTREAM "BUSINESS AS USUAL"

Electrification of Trucks Refueling

FLEET VEHICLE CONVERSION (I.E. FUEL TO HYBRID/ELECTRIC) ETC

Create an urban growth boundary

Require new subdivisions to use solar panels on roofs

Electrify Municipal Vehicles

Expand public transit greatly (trains, more buses, protect bike lanes, get more sidewalks) and make it all run on renewable energy only

Create dense, public/affordable housing in city core + discourage suburban sprawl

PRACTICES (PERSONAL + INSTITUTIONAL)

ZERO
DEPENDENC
COAL AS
ENERGY

Shut Down
Coal

Phase out the
use of fossil fuels
for electricity
production by 2030

Shut down
all coal
plants
immedi

Rapid
transition
to renewable
energy

MORE
STRINGENT
RECYCLING
REDUCE
GHGS

KEEP IT SIMPLE

Consider lifecycle
emissions
when purchasing
natural gas
exchange and/or
require best
from producers

Look at
Capacity factor
for Wind & Solar
CPS Ems 70% of
HOOD must not
exceed

TIGHTER
BUILDING
ENVELOPE

Build Solar
In West Texas
1 hour later
for peak

New Home
Solar Ready

HAVE
Up grades

Refrigerator repairs
~~HAVE~~

OTHER