

CITY OF CHICO
CLIMATE ACTION COMMISSION
REGULAR MEETING OF THURSDAY, FEBRUARY 13, 2020
Municipal Center - 421 Main Street - Council Chambers - 6:00 pm

Commissioners Present:

Mark Stemen, Chair
Cheri Chastain, Vice Chair
David Donnan
Rebekah Casey
Kirk Monfort
Michael Nelson
Tawny Vernau

Commissioners Absent:

Staff Members Present:

Brendan Vieg, Community Development Director (Planning and Housing)
Molly Marcussen, Associate Planner
Maggie Scarpa, CivicSpark Fellow

1. CALL TO ORDER

Chair Stemen called the meeting to order at 6:00 PM.

1.1. ROLL CALL

Commissioners and staff were present as noted above.

1.2. SWEARING IN OF NEWLY APPOINTED CLIMATE ACTION COMMISSIONER

Chair Stemen made a change to the agenda adding the swearing in of Commissioner Donnan to the Climate Action Commission.

City Clerk Presson lead the swearing in of David Donnan to the Climate Action Commission.

2. CONSENT AGENDA

*All matters listed under the Consent Agenda are considered routine and will be enacted by one motion. There will be no separate discussion of these items unless requested by a member of the Climate Action Commission. A member of the public may request that an item be removed, provided the item does not relate to a noticed hearing which has been closed to further public comment. **Items removed from the Consent Agenda will be considered immediately following the approval of the Consent Agenda.***

2.1. Approval of Minutes

Commissioner Casey made a motion to approve the January 9th, 2020 meeting minutes. Commissioner Donnan seconded the motion. Minutes approved 7:0.

3. ITEMS TO BE DISCUSSED

3.1. Brown Act Presentation (City Clerk)

City Clerk Presson lead a presentation on the Brown Act. PowerPoint is provided as **Attachment A**.

3.2. Department of Public Works (Operations and Maintenance) Presentation on Greenhouse Gas Reduction and Resiliency Efforts - Public Works Director (O&M) Erik Gustafson & City employees Linda Herman, Richard Bamlet, and Jacques Vos lead a presentation highlighting key efforts the Department has underway to reduce GHG emissions and improve adaptation and resiliency. Topics included the PG&E Sustainable Solutions Turnkey Energy Audit, Community Choice Aggregation, goat

grazing in Bidwell Park, retrofits and updates to the Wastewater Treatment Plant, and the Urban Forest Master Plan Grant and tree planting efforts. PowerPoint is provided as **Attachment B**.

Chair Stemen opened the item for public comment

Addressing the commission on this item were: community member Mary Kay Benson who asked what makes clean diesel clean.

Chair Stemen closed the item for public comment.

3.3. Reopen the Elections for Chair and Vice Chair

Commissioner Stemen nominated Commissioner Chastain for Chair. No other commissioners were nominated. Commission voted 7:0 for Chastain to be Chair. Commissioner Chastain nominated Commissioner Stemen for Vice Chair. No other commissioners were nominated. Commission voted 7:0 for Commissioner Stemen to be Vice Chair.

4. BUSINESS FROM THE FLOOR/PUBLIC COMMENT

Addressing the commission on this item were: community member Jared Geiser who noted his support for fire fuels management in Bidwell Park. Geiser added that he was not supportive of the newly installed stop sign at 4th and asked the city to investigate turning forestry debris into biochar rather than chipping.

5. REPORTS & COMMUNICATIONS

Associate Planner Marcussen briefed the commission on 4 items:

- The city has heard from Rincon that the previously done GHG inventory was done correctly
- Staff is reviewing a draft CAP Update Outreach Plan. Outreach should take place from June-September. Staff added that these public engagement events as well as the listening sessions are the most appropriate venues to for community members to provide input on CAP measures.
- Rincon has put together an Excel document of existing measures that are in the CAP, General Plan and Bicycle/ Pedestrian Master Plan for staff to review. Staff is reviewing and rating these measures.
- Staff received a draft schedule from Rincon and would like to note that their team will be engaging with the commission at most of the future meetings.

5. ADJOURNMENT

There being no further business from the Commission, the meeting was adjourned at 7:47 pm to the Regular Meeting of Thursday, March 12th, 2020.

Approved on: 07-09-2020

Molly Marcussen

Molly Marcussen, Associate Planner



Ralph M. Brown Act

Open meetings for legislative bodies

Government Code Sections

54550-54963

Legislative Bodies

- City Council
- All Boards and Commissions
- Advisory committees
- Standing committees
- Standing committee vs. Ad-hoc committee

Purpose



To ensure that all meetings of the legislative body of a local agency are open and public and that all persons are permitted to attend and participate.

Purpose - cont'd

- Agenda serves as notification of items
- The public has opportunities to participate in the meeting
- The public has access to written materials distributed to the legislative body.

Meetings

What is a “meeting”?

- Majority of members
- Same time and place
- Hear, discuss, deliberate, or take action



Meetings to Avoid



- Face to Face Meetings
- Informal Gatherings
- Serial Meetings

- Daisy Chain
- Hub & Spoke
- Staff Discussions



Electronic Communications



Electronic Pitfalls

- Cell phones
- Texting
- Emails – sending or receiving



Smith v. City of San Jose – March 2017

Supreme Court ruled that communications of state and local officials and employees regarding official agency business may be subject to the Public Records Act regardless of the type of account used in their preparation or transmission.

That includes all personal electronic devices!

Social Media



Gatherings that are not Meetings!

- Individual Contact Exception
- Conference Exception
- Other Public Meetings
- Meetings of other Legislative Bodies
- Social or Ceremonial Occasions
- Standing Committee Exception

The Public's Rights...

- To attend all meetings
- To provide testimony on any agenda item before or during its consideration
- To provide testimony on any matter within the jurisdiction of the legislative body, even if not on the agenda
- Audio, Video tape or broadcast meetings

Penalties and Remedies

- Written demand to cure the act
- 30 Days to Cure
- Penalty

Can be charged with a
Misdemeanor

Penalties and Remedies

- Penalties and Remedies can occur for violations of the act
- Criminal penalties
- Civil injunctive relief
- Award of attorney fees
- Actions by the body declared null & void by a court

In Closing...



Exhibit B



Public Works O&M
Climate Action Commission Update
2-13-20

Climate Action Commission - Overview

Energy Reduction Accomplishments

- Facilities – City owned and operated buildings
- Right-Of-Way (ROW) – City street infrastructure
- Airport
- Fleet – City Fleet and fueling operations
- Waste Water Treatment Plant
- Airport
- Internal Energy Audit Results

Climate Action Commission - Overview

Ongoing energy reduction measures & projects

- Urban Forestry Program
- PG&E Sustainable Solutions Turnkey Program
- Groundwater Sustainability Agency (Vina GSA)
- Community Choice Aggregation (Butte Choice Energy)

Climate Action Commission - Accomplishments

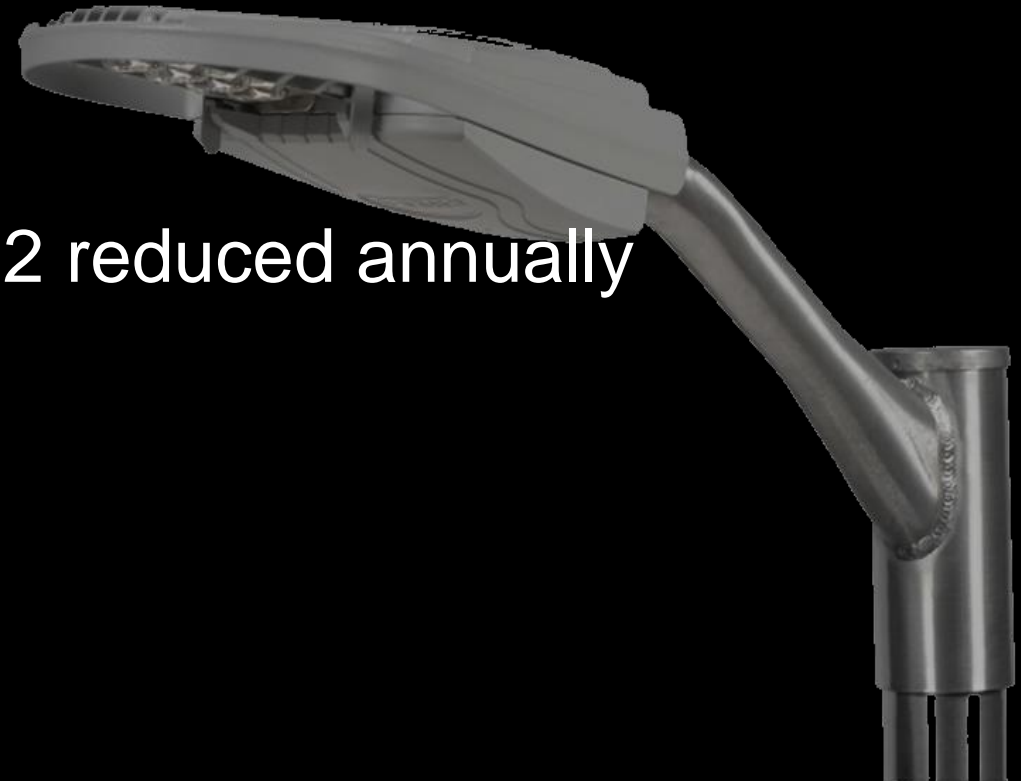
Facilitates lighting LED retrofit

- Equivalent to 40 metric tons of CO₂ reduced annually
- \$50,000 in cost savings annually
- Less than 2 year ROI

Climate Action Commission - Accomplishments

Streetlight LED Retrofit

- Leader - One of the first agencies to partner with PG&E
 - 2,267 PG&E-owned (LS-1)
 - 4,689 City-owned (LS-2)
- 50% reduction in energy
- Equivalent 1,060 metric tons of CO₂ reduced annually
- \$250,000 cost savings annually



Climate Action Commission - Accomplishments

Airport LED retrofits

- 40 apron lights
- 204 taxiway lights
- LED taxiway signs



Climate Action Commission - Accomplishments



Fleet

- Early compliance: CARB emissions regulations exceeding Particulate Matter (PM) and NOx requirements
- Updated vehicle use policy reducing take home vehicles by 30%
- Continuous fleet optimization
- Deployed bio-diesel program and now investigating renewable diesel feasibility

Climate Action Commission - Accomplishments

Fleet

- Converting fleet to EVs where possible during replacement cycles. (both sedans & medium duty trucks).
- Deploying EV charging stations in City parking lots.



Climate Action Commission - Accomplishments

Waste Water Treatment Plant

- Deployed industry first ammonia metering and dissolved solids technology in aeration basins
 - Real-time aeration fine-tuning
 - \$130,000 annual savings
- Maintain 1-MW solar system and methane Co-Gen

Climate Action Commission - Accomplishments

Internal Energy Audit

Facility Name	Electric (kWh)	Electric (kW)	Electric (\$)	Gas (Therms)	Gas (\$)	Water (CCF)	Total Water Cost	Total Cost	% of Total Electric Use	% of Total Gas Use	% of Total Cost
Wastewater Treatment Plant	2,342,401	826	\$ 529,032	177,442	\$ 71,152	-	-	\$ 600,184	35.90%	81.96%	27.50%
Street Lights	1,591,593	-	\$ 558,059	-	\$ -	-	-	\$ 558,059	24.39%	0.00%	25.57%
City Hall	763,367	286	\$ 150,402	11,636	\$ 9,168	-	-	\$ 159,570	11.70%	5.37%	7.31%
Various A6 Accounts (10 Locations)	494,774	250	\$ 119,416	-	\$ -	-	-	\$ 119,416	7.58%	0.00%	5.47%
Police Station	368,855	108	\$ 66,592	957	\$ 1,205	-	-	\$ 67,797	5.65%	0.44%	3.11%
Traffic Signals	342,232	2	\$ 79,428	-	\$ -	-	-	\$ 79,428	5.25%	0.00%	3.64%
Municipal Services Center	270,816	165	\$ 81,980	13,187	\$ 11,631	-	-	\$ 93,611	4.15%	6.09%	4.29%
Fire Stations	137,967	66	\$ 32,450	8,642	\$ 8,181	-	-	\$ 40,631	2.11%	3.99%	1.86%
Animal Shelter	67,238	29	\$ 16,319	4,042	\$ 4,625	-	-	\$ 20,944	1.03%	1.87%	0.96%
Council Chambers	60,820	76	\$ 14,345	-	\$ -	-	-	\$ 14,345	0.93%	0.00%	0.66%
Downtown Park	49,328	21	\$ 11,293	-	\$ -	-	-	\$ 11,293	0.76%	0.00%	0.52%
General Service	25,542	16	\$ 6,137	584	\$ 724	-	-	\$ 6,861	0.39%	0.27%	0.31%
Irrigation	9,283	1	\$ 9,297	-	\$ -	-	-	\$ 9,297	0.14%	0.00%	0.43%
Parking Lot Lighting	136	3	\$ 755	-	\$ -	-	-	\$ 755	0.00%	0.00%	0.03%
City-Wide Water	-	-	\$ -	-	\$ -	134,393	\$ 400,540	\$ 400,540	0.00%	0.00%	18.35%
Total	6,524,352	1,849	\$ 1,675,507	216,490	\$ 106,686	134,393	\$ 400,540	\$ 2,182,733	100.00%	100.00%	100.00%

- Annual utility costs are ~ \$2,200,000 / yr.
- City has approximately 678 separate electric, natural gas, and water accounts (opportunity for Utility portfolio solution)
- WWTP and Street Lights are over 60% of total electric consumption and 65% of electric cost
- WWTP is 45% of peak demand
- WWTP consumes over 80% of the City's annual natural gas usage

Climate Action Commission - Accomplishments/Ongoing

• Waste Diversion

- Commercial/ Residential Recycling
- Yard waste Recycling
- Compost Facility ~20k tons/year
- Leaf Collection
- C&D Recycling
- Scrap Metals
- Asphalt Regrind
- Future Food Waste Diversion

Year	Landfill Tons	MT CO2e/Ton	Total MT CO2e	Population	Pounds per person per day	Cal Recycle Target
2005	88,307	0.2835	25,035	78,918	6.1	6.2
2006	87,413	0.2835	24,782	78,653	6.1	6.2
2007	94,759	0.2835	26,864	84,491	6.1	6.2
2008	90,747	0.2835	25,727	86,772	5.7	6.2
2009	75,537	0.2835	21,415	87,713	4.7	6.2
2010	75,295	0.2835	21,346	86,103	4.8	6.2
2011	74,984	0.2835	21,258	86,900	4.7	6.2
2012	74,890	0.2835	21,231	87,500	4.7	6.2
2013	74,107	0.2835	21,009	87,671	4.6	6.2
2014	69,595	0.2835	19,730	88,389	4.3	6.2
2015	74,105	0.2835	21,009	89,634	4.5	6.2
2016	76,341	0.2835	21,643	92,117	4.5	6.2
2017	82,440	0.2835	23,372	91,398	4.9	6.2
2018	80,808	0.2835	22,909	92,861	4.8	6.2
Difference from 2005			-8.5%	17.7%	-22.2%	

Climate Action Commission - Accomplishments/Ongoing

- Vegetative Fire Fuels Reduction:
 - Goat Grazing – nearly 100 acres grazed in Bidwell Park and Foothill Preserve.
 - California Conservation Corps Grant (8,000 hours).
 - Cal Fire grant to develop Vegetative Fuels Management Plan.
 - Ongoing removal of non-native invasive vegetation by volunteers and staff.



Climate Action Commission - Ongoing Efforts

- Urban Forestry Program
- PG&E Sustainable Solutions Turnkey Program
- Groundwater Sustainability Agency (Vina GSA)
- Community Choice Aggregation (Butte Choice Energy)

Climate Action Commission - Ongoing Efforts

City of Chico Urban Forest Revitalization Program

- September 2018 City of Chico awarded a grant \$425,811
- Total program including match \$608,913

Climate Action Commission - Ongoing Efforts

City of Chico Urban Forest Revitalization Program

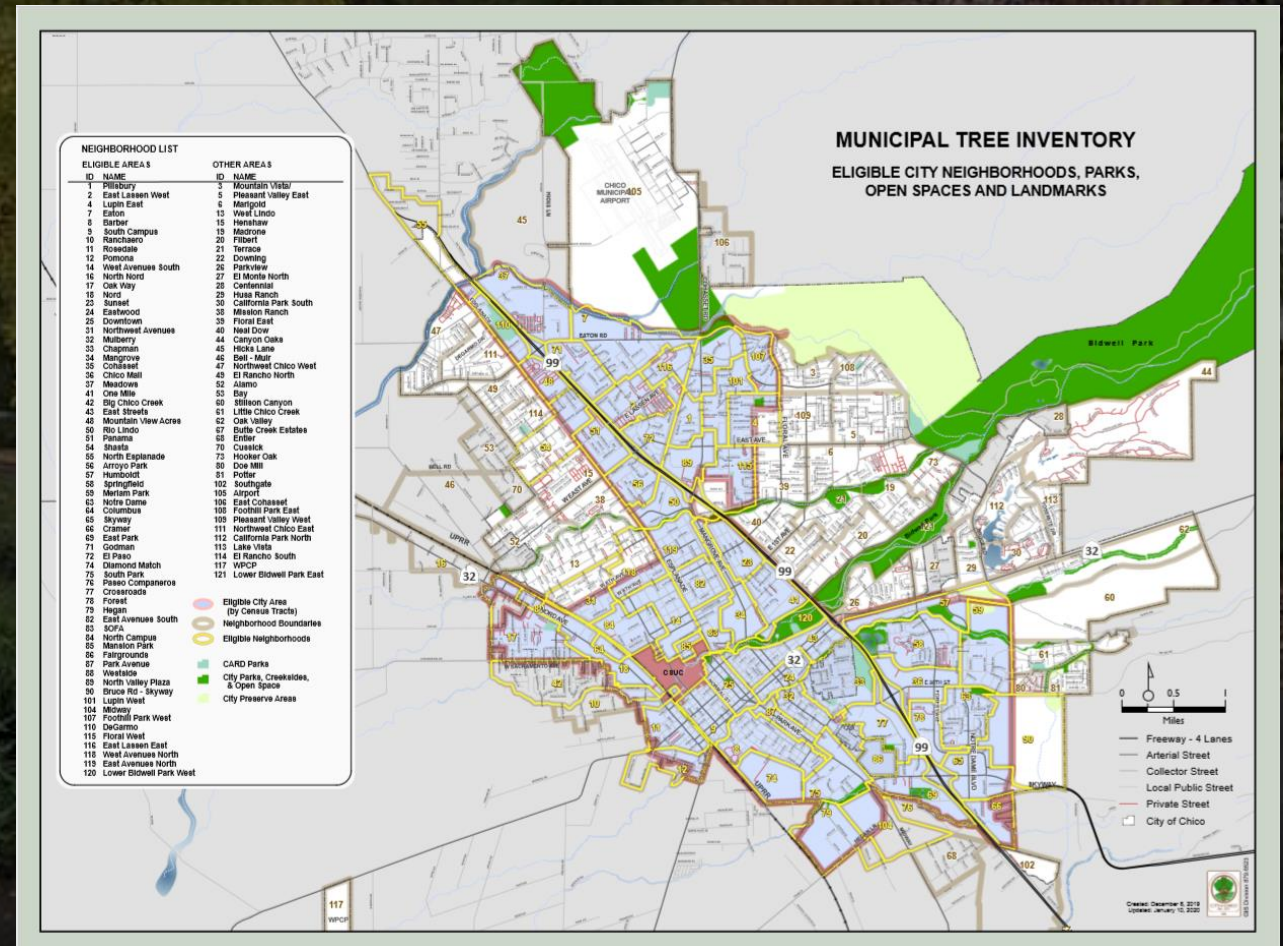
Four Components:

- A. Conduct a new City-wide urban forest tree inventory
- B. Produce an Urban Forest Master Plan (UFMP) and Urban Tree Canopy Analysis (UTC) (i-tree Eco)
- C. Tree Replanting in Disadvantaged and Low-Income Communities SB 535/AB 1550
- D. Community engagement

Climate Action Commission - Ongoing Efforts

City of Chico Urban Forest Revitalization Program

- GHG reduction:
- Tree Planting
- 700 new trees
- Carbon sequestration
- Utility offsets



Climate Action Commission - Ongoing Efforts

City of Chico Urban Forest Revitalization Program

- GHG Data (CARB)
- 1764 Mt CO₂e sequestered C
- 845 Mt CO₂e energy savings
- (130 Mt CO₂e) emissions
- Net GHG benefits
- = 2479 Mt CO₂ e
- Additional Co-pollutant benefits NO₂, PM_{2.5},
- Storm water reduction

California Air Resources Board
California Climate Investments

Final Calculator Tool for
Urban and Community Forestry Program
Greenhouse Gas Reduction Fund
Fiscal Year 2017-18

Project Name:	City of Chico Urban Forest Revitalization Project
Grant ID, if applicable:	8GG17406

GHG Summary Worksheet

GHG Benefit of Carbon Stored in Live Project Trees Estimated Using i-Tree Planting (MT CO ₂ e)	1,764
GHG Benefit of Carbon Stored in Live Project Trees Estimated Using i-Tree Streets (MT CO ₂ e)	0
GHG Benefit from Energy Savings Estimated Using the i-Tree Planting (MT CO ₂ e)	845
GHG Benefit from Energy Savings Estimated Using i-Tree Streets (MT CO ₂ e)	0
GHG Benefit of Carbon Stored in Wood Products (MT CO ₂ e)	0
GHG Benefit from Utilizing Biomass for Energy Generation (MT CO ₂ e)	0
GHG Benefit from Preventing the Landfilling of Biomass (MT CO ₂ e)	0
GHG Emissions from Project Implementation (MT CO ₂ e)	130

Net GHG Benefit (MT CO ₂ e)	2,479
UCF GGRF Funds Requested (\$)	\$425,811
Total GGRF Funds Requested (\$)	\$425,811
Net GHG Benefit/UCF GGRF Funds Requested (MT CO ₂ e/\$)	0.005821769
Net GHG Benefit/Total GGRF Funds Requested (MT CO ₂ e/\$)	0.005821769
UCF GGRF Funds Requested/Net GHG Benefit (\$/MT CO ₂ e)	\$171.77
Portion of the Net GHG Benefit attributable to the GGRF funding from another CCI program	0

Climate Action Commission - Ongoing Efforts

City of Chico Urban Forest Revitalization Program

- California Cap-and-Trade auction proceeds deposited into Greenhouse Gas Reduction Fund (GGRF), used to further the objectives of the California Global Warming Solutions Act of 2006 (Assembly Bill 32 (AB 32); Núñez, Chapter 488, Statutes of 2006)
- California Climate Investments (CCI) Urban & Community Forestry Program administered by CalFire

Climate Action Commission - Ongoing Efforts

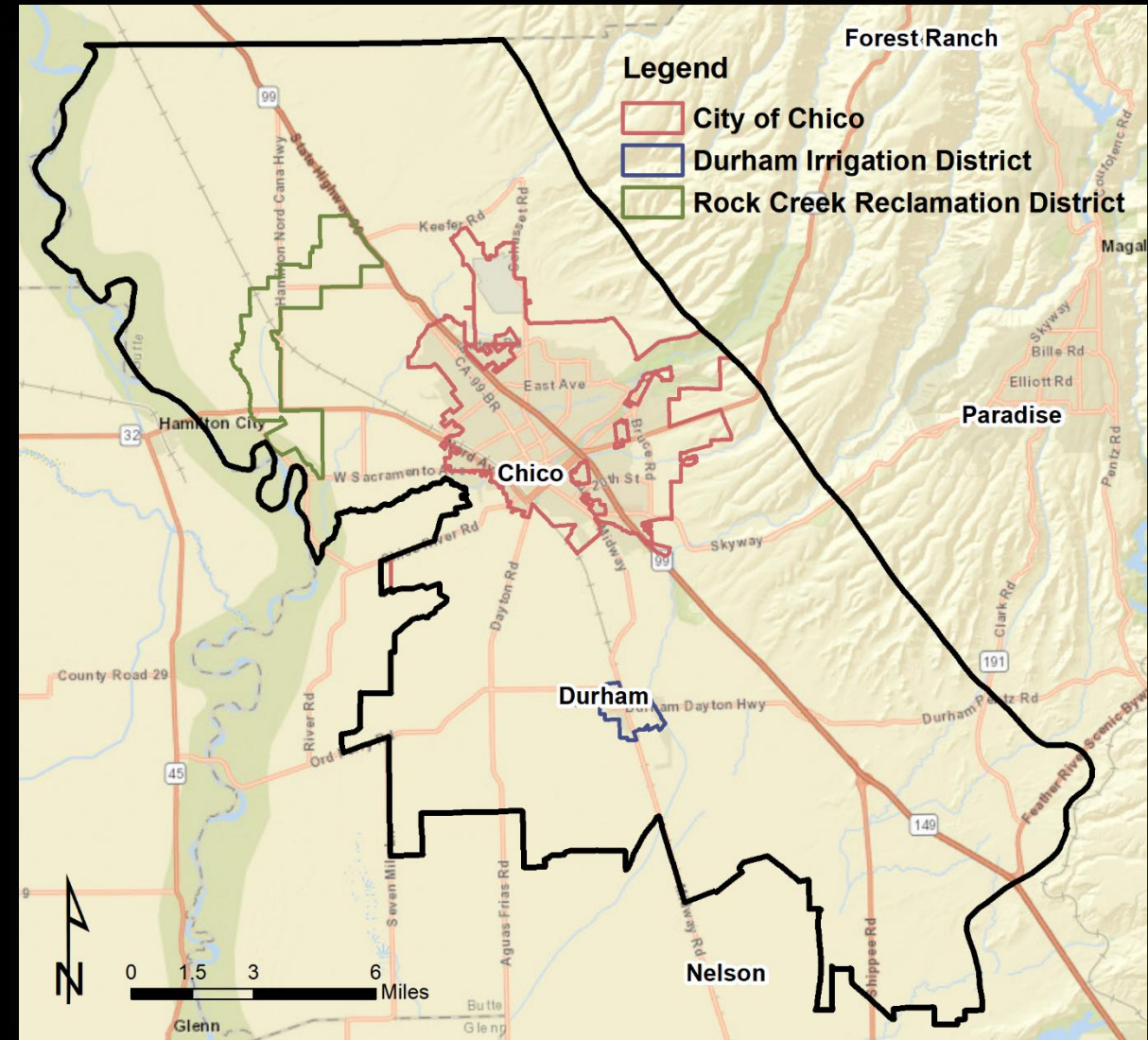
PG&E Sustainable Solutions Turnkey (SST) Program

- City-wide
- Facilities
- WWTP
- Currently conducting Investment Grade Audits (IGA)
- All City facilities are subject (Ongoing);
 - Audit will highlight specific energy saving measures for the city's aging infrastructure
 - Audits will contain energy savings recommendations that can be realized through *conventional energy retrofits* or where possible *deep energy retrofits* (DER)
 - DER's are costly upfront and are harder to finance for cities.
 - DER's do generate a greater and more immediate return on investment
 - Caution: retrofitting aging infrastructure can be more expensive than building new smart infrastructure

Climate Action Commission - Ongoing Efforts

Groundwater Sustainability (Vina GSA)

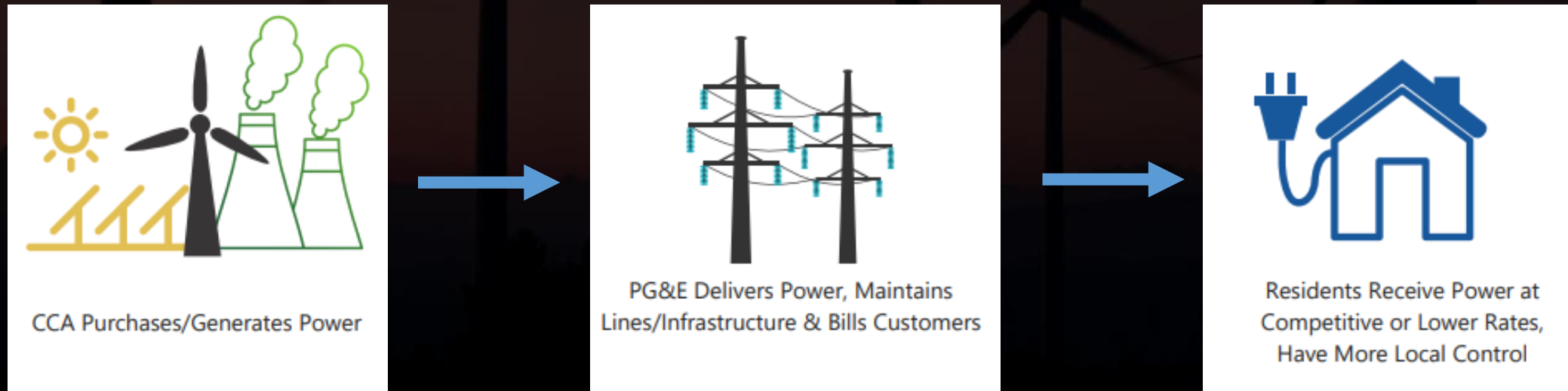
- SGMA took effect 2015
- GSAs formed by 2017 (Agency with water supply, water mgmt., or land use jurisdiction)
- Groundwater Sustainability Plans (GSP) by 2022
- Groundwater sustainability by 2042



Climate Action Commission - Ongoing Efforts

Community Choice Aggregation (Butte Choice Energy)

- Allows communities to aggregate their power needs and purchase power on the open market (AB 117, 2002)



Climate Action Commission - Ongoing Efforts

Community Choice Aggregation (Butte Choice Energy)

Benefits:

- Choice & Local Control
- 2% rate savings, \$5-million in annual savings for the region
- Economic development
- Competitive with neighboring public owned utilities
- Fund local energy projects

Risks:

- Initial start-up costs
- Slight reduction in utility user tax
- Must remain competitive with local investor-owned utility

Climate Action Commission - Ongoing Efforts

Community Choice Aggregation (Butte Choice Energy)

Happening Now:

- Implementation plan submitted to CPUC
- RFPs for finance, data management, wholesale power support and executive recruitment launched
- Updating load-demand analysis and resource adequacy filings
- Meets second Monday every month at 05:30 PM at BCAG

Climate Action Commission - Recap

- Accomplishments
- Ongoing efforts
- Report to Climate Action Commission at significant milestones



Questions?