

Introduction

(0.1) Please give a general description and introduction to your city including your city's reporting boundary in the table below.

City boundary

Administrative boundary

City / Municipality

Description of city

The City of Cupertino (population 61,000, 13 square miles) is located against the foothills of the Santa Cruz Mountains at the west end of the world famous Silicon Valley. Corporate headquarters blend with tree-shrouded residential neighborhoods that climb into the foothills of the Santa Cruz Mountain range. With 2,000 businesses, Cupertino is home to many well-known high-tech companies: Apple Inc., Verigy, Durect Corporation, and Trend Micro are headquartered in the city. DeAnza College, one of the largest single-campus community colleges in the country, is another major employer. Quality schools and proximity to high-tech jobs and beautiful open spaces make Cupertino a desirable location for a highly educated and culturally diverse population. Cupertino's ecosystem ranges from the urban environment in the flatlands to semi-rural and rural environment in the western foothills of the Santa Cruz Mountains. There are approximately 16 square miles of hillsides included in and around the boundary of the city. Info from the 2010 Census: July average temp: 21C; average annual precipitation: 58cm; average household income: \$161,000; population: 63% Asian, 31% White, 4% Hispanic / Latino, 2% all other races / ethnicities; population density: 3171 / sq. mile.

(0.2) If you have not previously submitted a Letter of Commitment to the Global Covenant of Mayors, please attach your Letter of Commitment here, signed by an appropriately mandated official (e.g. Mayor, city Council).

City Details

(0.3) Please provide information about your city's Mayor or equivalent legal representative authority in the table below:

	Leader title	Leader name	Current term start year	Current term end year	Total time in office (years)
Please complete	Mayor	Darcy Paul	2018	2018	4

(0.4) Please select the currency used for all financial information disclosed throughout your response.

USD US Dollar

(0.5) Please provide details of your city's annual operating budget, in the currency reported in question 0.4.

	Annual operating budget	Budget year start	Budget year end
Please complete	148868000	July 1 2017	June 30 2018

(0.6) Please provide details of your city's current and projected population.

	Current population	Current population year	Projected population	Projected population year
Please complete	60777	2017	75487	2050

(0.7) Please provide details of your city's GDP in the currency reported in question 0.4.

	GDP	Year of GDP	Source
Please complete	7754840470	2016	Reflects current-dollar GDP for Cupertino, scaled down from metro area GDP of San Jose-Sunnyvale-Santa Clara, CA. Source: U.S. Dept. of Commerce Bureau of Economic Analysis, "Gross Domestic Product by Metropolitan Area, 2016"

(0.8) Please provide further details about the geography of your city.

	Average annual temperature (in Celsius)	Land area (in square km)	Average altitude (m)	Longitude (e.g. -120.9762)	Latitude (e.g. 41.25)
Please complete	16.1	29.3	112	-122.044956	37.319398

Governance and Data Management

Governance

(1.0) Please describe the impact of national and/or regional climate change activities on your city’s own climate change activities.

In 2006, the California Legislature and Governor took significant steps to address climate change concerns with the passage of the Global Warming Solutions Act (AB 32). The law set a target to reduce California’s greenhouse gas emissions to 1990 levels by year 2020. In addition, the Governor signed Executive Order S-3-05 that required California to reduce greenhouse gas emissions (GHG) by 80 percent below the 1990 levels by year 2050. Many initiatives at the State, regional and local levels are being implemented to help achieve these goals. These include: The Sustainable Communities and Climate Protection Act of 2008 (SB 375) supports the State’s climate action goals to reduce GHG emissions through coordinated transportation and land use planning. Each of California’s Metropolitan Planning Organizations must prepare a Sustainable Communities Strategy (SCS) as an integral part of its Regional Transportation Plan (RTP) to achieve these targets. For the nine-county Bay Area, the Association of Bay Area Governments (ABAG) and the Metropolitan Transportation Commission (MTC) have prepared the One Bay Area Plan as its SCS. This plan contains land use, housing and transportation strategies that allow the region to meet its GHG reduction targets. The One Bay Area Grant (OBAG) program, which implements transportation funding in coordination with the strategies in the One Bay Area Plan. The City completed its Climate Action Plan (CAP) in December 2014, which established GHG reductions per the targets set in AB 32 and S-3-05. The CAP is based on 2040 growth projections for Cupertino. It aims to capture the shortfall projected from State initiatives by identifying policies and strategies to reduce GHG at a municipal and community-wide level.

(1.1) Please describe how your city manages overall responsibility for climate change mitigation (emissions reduction) and adaptation (climate risk reduction).

Housed within the Office of the City Manager, the Sustainability Division oversees Cupertino’s Community and Municipal Climate Action Plan, which defines strategies to reduce greenhouse gas emissions, and provides residents, businesses and schools with programs and services focused on energy efficiency, renewable energy, water conservation, alternative transportation and other sustainable actions. The CAP outlines greenhouse gas (GHG) reduction strategies and related implementation steps and identifies the City department(s) responsible for managing each implementation step. The Sustainability Division prepares and presents an annual CAP Progress Report to the Mayor and City Council on the status of the CAP implementation measures and related metrics.

(1.2) Please describe the administrative structure of your government.

Government structure

Administrative structure

One tiered – city government responsible for all city functions

Description of administrative structure

Cupertino is a General Law city and follows the provisions and requirements established by the State. The City Council is the governing body of the City vested with the authority to establish policy, adopt new laws, levy taxes, award contracts, and appoint certain City officers such as the City Manager and City Attorney. The Council members are ultimately responsible to the people for the actions of local government. The Mayor, who is also a member of the Council, signs official documents, chairs the Council meetings, and acts as the official head of the City at public and ceremonial occasions. The City Council has five members and are elected at large to overlapping, four-year terms. The Council members themselves elect the Mayor and Vice Mayor for a term of one year. Cupertino Municipal Elections are held in November of even numbered years.

(1.3) Please provide details on your city’s annual revenue sources.

	Percentage of annual revenue
National / central government	
Regional / state / provincial government	
Local taxes	62
Levies and fees	7.3
Operational revenues	16.7
Other	14

(1.4) Does your city incorporate sustainability goals and targets (e.g. GHG reductions) into the master planning for the city?

Yes

(1.4a) Please detail which goals and targets are incorporated in your city’s master plan and describe how these goals are addressed in the table below.

Goal type

Emissions reduction targets

How are these goals/targets addressed in the master plan?

The General Plan has a Sustainability Element, which references emissions reduction target development in Strategy ES-1.1.1: Climate Action Plan (CAP): Adopt, implement and maintain a Climate Action Plan to attain greenhouse gas emission targets consistent with state law and regional requirements.

Goal type

Adaptation targets

How are these goals/targets addressed in the master plan?

In the General Plan, an Adaptation target development addressed in ES-1.1.3: Climate Adaptation and Resiliency: Conduct a climate vulnerability assessment and set preparedness goals and strategies to safeguard human health and community assets susceptible to the impacts of a changing climate (e.g., increased drought, wildfires, flooding). Incorporate these into all relevant plans, including the Emergency Preparedness Plan, Local Hazard Mitigation Plan, Dam Failure Plan, Climate Action Plan, Watershed Protection Plan, and Energy Assuredness Plan.

Goal type

Energy efficiency targets

How are these goals/targets addressed in the master plan?

Energy efficiency target assessment addressed in ES-2.1.1: Coordination: Continue to evaluate, and revise as necessary, applicable City plans, codes and procedures for inclusion of Federal, State and regional requirements and conservation targets. Also in ES-2.1.2: Comprehensive Energy Management: Prepare and implement a comprehensive energy management plan for all applicable municipal facilities and equipment to achieve the energy goals established in the City’s Climate Action Plan. Track the City’s energy use and report findings as part of the Climate Action Plan reporting schedule.

Hazards and Adaptation

(2.0) Has a climate change risk or vulnerability assessment been undertaken for your local government area?

Yes

(2.0a) Please select the primary process or methodology used to undertake the risk or vulnerability assessment of your city. If your city uses a combination of methodologies, please select the main methodology used.

Risk assessment methodology

Primary methodology

State or region vulnerability and risk assessment methodology

Description

County of Santa Clara specific study and risk assessment. Key methodology elements include: climate variable data, community asset data, vulnerability assessment (exposure analysis, sensitivity analysis, adaptive capacity analysis), and risk assessment (likelihood analysis, consequence analysis).

(2.0b) Please attach and provide details on your climate change risk or vulnerability assessment. Please provide details on the boundary of your assessment, and where this differs from your city's boundary, please provide an explanation.

Publication title and attach file here

Silicon Valley 2.0 Climate Adaptation Guidebook

Year of publication

2015

Web link

https://www.sccgov.org/sites/osp/Documents/SV2/1_150803_Final%20Guidebook_W_Appendices.pdf

Boundary of assessment relative to city boundary (reported in 0.1)

Larger – covers the whole city and adjoining areas

Explanation of boundary choice

Assessment covers 15 cities within the boundaries of Santa Clara County, including the City of Cupertino. The assessment was part of an extensive regional, multi-year, multi-stakeholder process to create a proactive framework for Santa Clara County cities to work together in preparing the region for the impacts of climate change.

Primary author of assessment

Regional / state / provincial government

Does the assessment identify vulnerable populations?

Yes

Publication title and attach file here

Year of publication

Web link

Boundary of assessment relative to city boundary (reported in 0.1)

Please select

Explanation of boundary choice

Primary author of assessment

Please select

Does the assessment identify vulnerable populations?

Please select

(2.0c) Please describe how your city's risk or vulnerability assessment addresses the following key requirements as defined by the Global Covenant, and provide details on the location of this evidence within your assessment.

Assessment of impact of current hazards

Proof statement from within your risk or vulnerability assessment (in English)

"Subsequent sections in this chapter provide an overview of historical and projected trends for sea level, storm surge, riverine flooding, wildfire, and extreme heat, as well as drought and air quality deterioration."

Page number(s)

2.4 - 2.31

Publication title of your risk or vulnerability assessment

Silicon Valley 2.0 Climate Adaptation Guidebook

Assessment of impact of future hazards

Proof statement from within your risk or vulnerability assessment (in English)

"Each asset section (and sub-asset section) begins with a vulnerability assessment summary, in order to understand its projected vulnerability to climate change. This analysis takes into consideration the exposure and sensitivity of the asset in regards to the following climate change variables (both primary and secondary) for Santa Clara County: Sea Level Rise, Storm Surge, Riverine Flooding, Wildfire, Extreme Heat"

Page number(s)

3.2 - 3W.13

Publication title of your risk or vulnerability assessment

Silicon Valley 2.0 Climate Adaptation Guidebook

(2.1) Does your city have an update / revision process for the climate risk or vulnerability assessment?

No

(2.2) Do the current and/or anticipated effects of climate change present a significant risk to your city?

Yes

Climate Hazards

(2.2a) Please list the most significant climate hazards faced by your city and indicate the probability and consequence of these hazards, as well as the expected future change in frequency and intensity. Please also select the top 3 assets or services that are affected by the climate hazard, and provide a description of the impact.

Climate Hazards

Drought

Hazard status

Currently affecting the city

Magnitude of impact

Serious

Anticipated timescale

Short-term

Probability of hazard

Medium High

Consequence of hazard

Do not know

Future change in frequency

Increasing

Future change in intensity

Increasing

Top three assets/ services affected

Water supply & sanitation

Environment

Impact description

Drought periods are projected to increase, which may increase subsidence risk from groundwater depletion.

Climate Hazards

Extreme hot days

Hazard status

Expected to affect the city in the future

Magnitude of impact

Serious

Anticipated timescale

Medium-term

Probability of hazard

Medium

Consequence of hazard

Do not know

Future change in frequency

Increasing

Future change in intensity

Increasing

Top three assets/ services affected

Energy

Public health

Emergency management

Impact description

Climate Hazards

Rain storm

Hazard status

Currently affecting the city

Magnitude of impact

Serious

Anticipated timescale

Short-term

Probability of hazard

Medium

Consequence of hazard

Do not know

Future change in frequency

Do not know

Future change in intensity

Do not know

Top three assets/ services affected

Energy

Transport

Impact description

Climate Hazards

River flood

Hazard status

Expected to affect the city in the future

Magnitude of impact

Serious

Anticipated timescale

Long-term

Probability of hazard

Do not know

Consequence of hazard

Do not know

Future change in frequency

Increasing

Future change in intensity

Increasing

Top three assets/ services affected

Information & communications technology

Commercial

Residential

Impact description

Climate Hazards

Forest fire

Hazard status

Expected to affect the city in the future

Magnitude of impact

Serious

Anticipated timescale

Long-term

Probability of hazard

Medium High

Consequence of hazard

Do not know

Future change in frequency

Increasing

Future change in intensity

Increasing

Top three assets/ services affected

Energy

Commercial

Impact description

(2.3) Do you consider that the effects of climate change could negatively impact the ability of businesses to operate successfully in your city?

Please explain

Response

Do not know

Explanation

(2.4) Please identify the factors that most greatly affect your city's ability to adapt to climate change, and indicate how those factors either enhance or challenge this ability.

Factors that affect ability to adapt

Access to education

Enhance/ Challenge

Enhance

Description

Silicon Valley municipalities have access to a number of higher education institutions and cutting edge science and research which enhances our ability to prepare studies and plan responses to climate threats as a city and region.

Factors that affect ability to adapt

Environmental conditions

Enhance/ Challenge

Challenge

Description

Extensive droughts, such as the five-year drought California experienced recently, put stress on our city's physical, economic, and natural resources. Severe droughts will challenge our city's ability to adapt and prepare for climate change.

Adaptation

(3.0) Has the Mayor or local government committed to adapting to climate change across the geographical area of the city, town or settlement?

Yes

(3.0a) Please select the type of commitment and attach evidence.

Type of commitment and attach commitment document

Compact of Mayors

12.1.15.Mayors.Climate.Ltr.pdf

Comments

(3.1) Has your city council published a plan that addresses climate change adaptation?

Intending to undertake in future

Adaptation Actions

(3.3) Please describe the actions you are taking to reduce the risk to, or vulnerability of, your city's infrastructure, services, citizens, and businesses from climate change as identified in the Climate Hazards section.

Climate hazards

Extreme hot days

Action

Please select

Status of action

Please select

Action description

Community engagement/education

Climate hazards

Rain storm

Action

Please select

Status of action

Please select

Action description

Public preparedness (including practice exercises/drills)

Climate hazards

River flood

Action

Flood mapping

Status of action

Please select

Action description

Climate hazards

Drought

Action

Please select

Status of action

Please select

Action description

Santa Clara Valley Water District (SCVWD) offers a Landscape Rebate Program for residents and businesses to convert lawns or pools to a low watering using landscape and receive \$2 per square foot. This rebate amount is made possible by the City of Cupertino's agreement with the District to add an additional \$1 per square foot to the District's existing \$1 per square foot rebate. Also in partnership with the SCVWD, the City hosts free graywater information workshops for residents on how to qualify for the \$200 Laundry to Landscape Rebate Program. The City also offers a free Do-It-Yourself energy & water savings toolkit available for checkout at the Cupertino Library.

(3.7) Please describe your progress in engaging stakeholders for adaptation planning.

Please complete and describe

Do you have a plan for stakeholder engagement?

Intending to undertake in future

Implementation of stakeholder engagement plan

Intending to undertake in future

Describe stakeholder engagement process

Social Risks

(4.0) Does your city face any social risks as a result of climate change?

Do not know

(4.0a) Please complete the table to indicate which social risks your city faces as a result of climate change and indicate if these risks have been covered by your city's action plan.

Opportunities

(5.0) Does addressing climate change provide any opportunities for your city?

Yes

Opportunities

(5.0a) Please indicate the opportunities and describe how the city is positioning itself to take advantage of them.

Opportunity	Describe how the city is maximizing this opportunity
Increased energy security	The Silicon Valley Leadership Group's Bay Area Climate Compact, of which Cupertino is a signatory, is driving efforts to convene joint procurement of energy efficient technologies and renewable energy sources as a means of fostering stronger Business to Government (B2G) climate-tied partnerships. Procuring 100% renewable electricity through Silicon Valley Clean Energy.
Please select	

(5.1) Does your city collaborate in voluntary partnership with businesses in your city on sustainability projects?

Yes

(5.1a) Please provide some key examples of how your city collaborates with business in the table below.

Collaboration area

Other (Green Business Certification)

Description of collaboration

The City offers a green business certification program, GreenBiz Cupertino, in which business receive free energy, water, and waste assessments, free equipment to help save water, guidance throughout the certification process, and recognition. GreenBiz acts as a way for the City to educate businesses on environmentally preferable practices and can double as an adaptation education tool in the future.

Financing Projects

(5.2) List any emission reduction, adaptation, water related or resilience projects you have planned within your city for which you hope to attract financing, and provide details on the estimated costs and status of the project in the currency reported in question 0.4. If your city does not have any relevant projects, please select No relevant projects under Project Area.

Project area

None

Status of project

Please select

Status of financing

Please select

Project description

Total cost of project

Total investment cost needed (if relevant)

Local Government Emissions

Boundary & Scope

(6.0) Do you have an emissions inventory for your local government operations to report?

Yes

(6.1) Please state the dates of the accounting year or 12-month period for which you are reporting an emissions inventory for your local government operations.

	From	To
Accounting year dates	January 1 2015	December 31 2015

(6.2) Please indicate the category that best describes the boundary of your local government operations emissions inventory.

Departments, entities or companies over which operational control is exercised

(6.3) Please give the name of the primary protocol, standard, or methodology used to calculate your local government operations emissions inventory.

Emissions methodology

Primary protocol

Local Government Operations Protocol (ICLEI/The Climate Registry/California Climate Action Registry/ California Air Resources Board)

Comment

(6.4) Which gases are included in your emissions inventory? Select all that apply.

CO2

CH4

N2O

HFCs

Energy Data

Scope 1 Emissions Breakdown

(6.5) Please give the total amount of fuel (refers to Scope 1 emissions) that your local government has consumed this year.

Source	Fuel	Amount	Units
Municipal vehicle fleet	Diesel/Gas oil	51853	L
Municipal vehicle fleet	Motor gasoline (petrol)	106079	L
Buildings	Natural gas	33580	Therms
Other (Generators)	Diesel/Gas oil	265	L
Other (Generators)	Motor gasoline (petrol)	170	L
Other (Generators)	Propane	4	L
Buildings	Other (Refrigerants HFCs)	0.002	Metric tonnes
Municipal vehicle fleet	Other (Refrigerants HFCs)	0.026	Metric tonnes

Scope 2 Emissions Breakdown

(6.6) How much electricity, heat, steam, and cooling (refers to Scope 2 emissions) has your local government purchased for its own consumption during the reporting year?

Source	Type	Amount	Units
Buildings	Electricity	2143386	kWh
Street lighting and traffic signals	Electricity	1185901	kWh
Water supply	Electricity	35675	kWh

Local Government Operations GHG Emissions Data

(6.7) Please provide total (Scope 1 + Scope 2) GHG emissions for your local government operations, in metric tonnes CO₂e. Scopes are a common categorization method.

Local government emissions breakdown

Total Scope 1 + Scope 2 emissions (metric tonnes CO₂e)

1264.2

Total Scope 1 emissions (metric tonnes CO₂e)

609.41

Total Scope 2 emissions (metric tonnes CO₂e)

654.8

Comment

Scope 3 Emissions

(6.8) Do you measure local government Scope 3 emissions?

Yes

(6.8a) Please complete the table.

Source of Scope 3 emissions

Waste Related Scope 3 Emission Sources

Emissions (metric tonnes CO₂e)

175.5

Comment

Source of Scope 3 emissions

Employee Commuting

Emissions (metric tonnes CO₂e)

442.7

Comment

Employee commute emissions based on a survey of employees' commute patterns conducted in 2017.

(6.9) Please indicate if your local government operations emissions have increased, decreased, or stayed the same since your last emissions inventory, and please describe why.

Please explain

Change in emissions

Decreased

Reason for change

Please select

Please explain

Emissions decreased comparing the 2010 to the 2015 community inventory due to multiple reasons, including but not limited to: a lower emissions factor associated with the utility's grid electricity; decrease in natural gas and electricity consumption; decrease in solid waste sent to landfill; efficiency improvements in buildings and facilities.

Emissions Verification

(6.10) Has the GHG emissions data you are currently reporting been externally verified or audited in part or in whole?

No

(6.10b) Please explain why your local government operations inventory is not verified and describe any future plans for verification.

Please explain

Reason

Please select

Comments

City Wide Emissions

GHG Emissions Data

(7.0) Does your city have a city-wide emissions inventory to report?

Yes

(7.1) Please state the dates of the accounting year or 12-month period for which you are reporting a city-wide GHG emissions inventory.

	From	To
Accounting year dates	January 1 2015	December 31 2015

(7.2) Please indicate the category that best describes the boundary of your city-wide GHG emissions inventory.

Administrative boundary of a local government

(7.3) Does your city have a city-wide emissions inventory that aligns with the Global Protocol for Community-Scale Greenhouse Gas Emissions Inventories (GPC)?

Yes

(7.3a) Please provide a summary of emissions by sector and scope as defined in the Global Protocol for Community Greenhouse Gas Emissions Inventories (GPC) in the table below.

	Emissions (metric tonnes CO2e)
Stationary Energy: energy use – Scope 1 (I.X.1)	99309
Stationary Energy: energy use – Scope 2 (I.X.2)	54318
Stationary Energy: energy use – Scope 3 (I.X.3)	
Stationary Energy: energy generation supplied to the grid – Scope 1 (I.4.4)	0
Transportation – Scope 1 (II.X.1)	55106
Transportation – Scope 2 (II.X.2)	65
Transportation – Scope 3 (II.X.3)	50054
Waste: waste generated within the city boundary – Scope 1 (III.X.1)	0
Waste: waste generated within the city boundary – Scope 3 (III.X.2)	36146
Waste: waste generated outside the city boundary – Scope 1 (III.X.3)	
Industrial Processes and Product Use – Scope 1 (IV)	
Agriculture, Forestry and Land Use – Scope 1 (V)	
TOTAL Scope 1 (Territorial) emissions	154415
TOTAL Scope 2 emissions	54382
TOTAL Scope 3 emissions	86200
TOTAL BASIC emissions	244943
TOTAL BASIC+ emissions	

(7.5) Please attach your city-wide inventory in the table below.

Emissions inventory format

GPC format: ClearPath (ICLEI)

Inventory document title and attachment

GPC Overview 2015 Inventory
GPC Overview 2015 Inventory.xlsx

Level of confidence

Medium

Comment on level of confidence

Emissions inventory format

GPC format: ClearPath (ICLEI)

Inventory document title and attachment

Detailed Report 2015 Inventory
Detailed Report 2015 Inventory.xlsx

Level of confidence

Medium

Comment on level of confidence

(7.10) Do you have any credits or offsets resulting in a change to your city's net emissions that you would like to report?

No

(7.11) Please indicate if your city-wide emissions have increased, decreased, or stayed the same since your last emissions inventory, and please describe why.

Please explain

Change in emissions

Decreased

Reason for change

Policy change

Please explain

Emissions decreased comparing the 2010 to the 2015 community inventory due to multiple reasons, including but not limited to: a lower emissions factor associated with the utility's grid electricity; large, non-residential electricity consumers switching to low emissions electricity source; decrease in biochemical oxygen demand treated per day at wastewater facility; efficiency improvements in buildings and facilities.

City-wide external verification

(7.12) Has the city-wide GHG emissions data you are currently reporting been externally verified or audited in part or in whole?

No

(7.12b) Please explain why your city-wide emissions inventory is not verified and describe any plans to verify your city-wide emissions in the future.

Please explain

Reason

Please select

Comments

Re-stating previous emissions inventories

(7.13) Since your last submission, have you needed to recalculate any past city-wide GHG emission inventories previously reported to CDP?

No

Strategy

Emissions Reduction: Local Government

(8.0) Do you have a GHG emissions reduction target in place for your local government operations?

Yes

(8.0a) Please provide details of your local government operations emissions reduction target.

Sector	Target start year	Baseline year	Baseline emissions (metric tonnes CO2e)	Percentage reduction target	Target year	Percentage of target achieved	Comment
Total	2015	2010	1775	15	2020		
Total	2015	2010	1775	49	2035		
Total	2015	2010	1775	83	2050		

Emissions Reduction Actions: Local Government

(8.1) What actions are you undertaking to reduce your emissions in your local government operations?

Emissions reduction project activity

Please select

Status of project

Please select

Estimated emissions reduction (metric tonnes CO2e)

Estimated emissions reduction timescale

Please select

Project description

Web link to project website

Emissions Reduction: City-wide

(8.2) Does your city have a climate change action plan for reducing city-wide GHG emissions?

Yes

(8.2a) Please attach your city's climate change action plan below.

Publication title and attach document	Year of publication	Web link	Stage of implementation
City of Cupertino Climate Action Plan	2015	http://www.cupertino.org/our-city/departments/environment-sustainability/climate-action	Plan in implementation

(8.2b) Please describe how your city’s climate change action plan addresses the following key areas, and provide details on the location of this evidence within your plan.

Vision describing the city’s overall ambition and clear objectives

Proof statement from within your action plan (in English)

"The City of Cupertino, along with climate-committed individuals and interested community groups, partnered with Santa Clara County Office of Sustainability and the Pacific Gas and Electric Company (PG&E), to develop this CAP as part of a regional effort to support Santa Clara County governments in achieving the following five objectives.."

Page number(s)

6-7

Publication title

City of Cupertino Climate Action Plan, 2015

Context of the action plan

Proof statement from within your action plan (in English)

This chapter defines the purpose of the City’s Climate Action Plan (CAP) and the planning framework used to develop it. An overview of the State of California’s greenhouse gas (GHG) reduction efforts is introduced, along with a policy framework of existing statewide action. The chapter also presents a summary of ongoing local and regional efforts related to climate change planning. It concludes with a description of how the CAP relates to the City’s General Plan and to the California Environmental Quality Act."

Page number(s)

1-6

Publication title

City of Cupertino Climate Action Plan, 2015

Business as Usual GHG Emissions forecast

Proof statement from within your action plan (in English)

The baseline inventories were used to forecast future community-wide and municipal operations GHG emissions under a business-as-usual (BAU) scenario. Cupertino’s GHG emissions were forecast for the future years 2020, 2035, and 2050, assuming that historic trends describing energy and water consumption, travel, and solid waste generation will remain the same in the future, from a per-capita perspective."

Page number(s)

44-54

Publication title

City of Cupertino Climate Action Plan, 2015

Monitoring of the action plan

Proof statement from within your action plan (in English)

"This chapter describes how the City will implement the CAP emissions reduction measures and actions. It reviews strategies for staff to implement the CAP measures and related actions, and then recommends approaches for the City to track its progress in achieving the outcomes identified for each measure in Chapters 3 and 4. Finally, the chapter presents a proposed process for evaluating, updating and amending the document over time to ensure it remains effective, actionable, and current."

Page number(s)

257-265

Publication title

City of Cupertino Climate Action Plan, 2015

(8.3) Do you have a GHG emissions reduction target in place at the city-wide level? Select all that apply.

Base year emissions (absolute) target

(8.3a) Please provide details of your total city-wide base year emissions reduction (absolute) target. In addition, you may add rows to provide details of your sector-specific targets, by providing the base year emissions specific to that target.

Sector	Target start year	Base year	Base year emissions (metric tonnes CO2e)	Percentage reduction target	Target year	Percentage of target achieved so far	Comment
Total city-wide emissions	2015	2010	307288	15	2020		In light of more current guidance from OPR or BAAQMD at the time of document preparation, Cupertino has selected a reduction target of 15% below 2010 baseline levels by 2020 as a proxy for a return to 1990 levels.
Total city-wide emissions		2010	307288	49	2035		
Total city-wide emissions		2010	307288	83	2050		

Emissions Reduction Actions : City-wide

(8.4) What actions is your city taking to reduce emissions? Please also indicate estimated emissions reduction potential and status of the emissions reduction actions your city has planned.

Energy

(9.0) Please indicate the energy mix of electricity consumed in your city.

Energy consumption percentage

Coal
0

Gas
25

Oil
0

Nuclear
22

Hydro
6

Biomass
0

Wind
0

Geothermal
0

Solar
30

Other sources
17

Total - please ensure this equals 100%
<Calculated field>

(9.1) How much (in MW capacity) renewable energy is installed within the city boundary in the following categories?

	MW capacity
Renewable district heat/cooling	
Solar PV	
Solar thermal	
Ground or water source	
Wind	
Other	

(9.2) Does your city have a renewable energy or electricity target?

Yes

(9.2a) Please provide details of your renewable energy or electricity target and how the city plans to meet those targets.

Scale

Local government operations

Energy / electricity types covered by target

Other (100% of municipal electricity usage)

Base year

2010

Total renewable energy / electricity covered by target in base year (in unit specified in column 2)

Percentage renewable energy / electricity of total energy or electricity in base year

Target year

2020

Total renewable energy / electricity covered by target in target year (in unit specified in column 2)

Percentage renewable energy / electricity of total energy or electricity in target year

100

Percentage of target achieved

100

Plans to meet target (include details on types of energy/electricity)

The City of Cupertino was a founding member of Silicon Valley Clean Energy, a community choice aggregation electricity provider. Beginning in January 2018, 100% of the City's municipal electricity is from 100% renewable sources via Silicon Valley Clean Energy.

(9.3) Does your city have an agreement to purchase a level of renewable electricity from the grid or from a national or municipal utility?

Yes

(9.3a) What is the agreement or target?

The City of Cupertino was a founding member of Silicon Valley Clean Energy, a community choice aggregation electricity provider. Beginning in January 2018, 100% of the City's municipal electricity is from 100% renewable sources via Silicon Valley Clean Energy.

Transport

(11.0) What is the mode share of each transport mode in your city?

Please complete

Private motorized transport

Rail/Metro/Tram

Buses (including BRT)

Ferries/ River boats

Walking

Cycling

Taxis or For Hire Vehicles

Other

(11.4) Please provide the total fleet size and number of vehicle types for the following modes of transport:

	Number of private cars	Number of buses	Number of municipal fleet (excluding buses)	Number of freight vehicles	Number of taxis	Transport Network Companies (e.g. Uber, Lyft) fleet size	Customer-drive carshares (e.g. Car2Go, Drivenow) fleet size
Total fleet size							
Electric							
Hybrid							
Plug in hybrid							
Hydrogen							

Water

Water Supply

(15.0) What are the sources of your city's water supply?

Surface water

Ground water

(15.3) Do you foresee substantive risks to your city's water supply in the short or long term?

No

(15.3b) Please explain why you do not consider your city to be exposed to any substantive water-related risk.

Please explain

Reason

Please select

Explanation

Submit your response

Please read and accept our Terms and Conditions

I accept the Terms and Conditions

Please confirm how your response should be handled by CDP.

	Public or non-public submission
I am submitting my response	Publicly (recommended)

What language are you submitting your response in?

English