PGH 18-0009
CLIMATE ACTION PLAN UPDATE
Public Workshop
July 30, 2018
Workshop Agenda Format

- Staff presentation
  - 10 - 15 minutes
- Brief questions and answers
- Break out to Station Boards
  - Move at your own pace
  - Speak one-on-one with staff
- Collect Input
  - At Station 5 and on Passport
Workshop Goals

- Step 1: Learn about climate action planning and why it is important.
- Step 2: Identify issues and opportunities and determine what changes are needed.
- Step 3: Provide feedback on potential solutions.
Regulatory Background

CLIMATE ACTION PLANNING HISTORY

• AB 32 - California Global Warming Solutions Act
  • Reduce emissions to 1990 levels by 2020
• SB 32
  • Mid-term reduction target of 40 percent below 1990 levels by 2030
• Executive Order S-3-05
  • Long-term goal of 80 percent below 1990 levels by 2050
What is a CAP?

• A Climate Action Plan (CAP) is a package of policies and actions that helps achieve the greenhouse gas reduction targets set forth by the state of California.

• Intended to reflect a strategy to reduce total and per person local carbon emissions.
What is in a CAP?

- Background
- Greenhouse Gas Inventory
- Identify Mitigation Measures
- Adaptation Strategies
- Implementation Program
- Monitoring and Evaluation
Existing CAP Background

CLIMATE ACTION PLANNING IN ESCONDIDO

• 2012 General Plan identifies a need for climate action planning.
• CAP was adopted in 2013 - identified the following achievement goals:
  • Provide a list of specific actions that will reduce GHG emissions
  • Reduce emissions attributable to Escondido to levels at or below 1990 GHG emissions by year 2020 consistent with the target reductions of AB 32.
  • Establish a qualified reduction plan (CEQA)
Scope of Existing CAP

- Identifies the City’s baseline and 2020 projected GHG emissions.
- Establishes reduction targets consistent with AB 32.
- Identifies municipal and community wide CAP measures to reduce measures to meet reduction target goal.
- Establishes implementation and monitoring procedures.
Scope of CAP Update

- Update City’s baseline with newer data.
- Model business-as-usual emissions projections for 2020, 2030, and 2035 (and trend projection to 2050).
- Review and update existing measures.
  - Updated CAP would include applicable measures from the 2013 CAP and new actions necessary to meet the 2020 and 2030 GHG reduction targets.
- Update implementation and monitoring strategies.
- Provide consistency with other plans.
- Streamline future development
Inventory Basics

- Transportation
- Electricity
- Natural Gas
- Solid Waste
- Water
- Wastewater
- Other categories

Source: SANDAG
# Updated Inventory (2012-2014)

<table>
<thead>
<tr>
<th>Emissions Category</th>
<th>2012 GHG Emissions (MT CO₂e)</th>
<th>2013 GHG Emissions (MT CO₂e)</th>
<th>2014 GHG Emissions (MT CO₂e)</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-Road Transportation*</td>
<td>498,000</td>
<td>490,000</td>
<td>479,000</td>
</tr>
<tr>
<td>Electricity</td>
<td>256,000</td>
<td>245,000</td>
<td>215,000</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>118,000</td>
<td>121,000</td>
<td>108,000</td>
</tr>
<tr>
<td>Off-Road Transportation</td>
<td>30,000</td>
<td>29,000</td>
<td>29,000</td>
</tr>
<tr>
<td>Solid Waste</td>
<td>24,000</td>
<td>25,000</td>
<td>25,000</td>
</tr>
<tr>
<td>Water</td>
<td>11,000</td>
<td>12,000</td>
<td>13,000</td>
</tr>
<tr>
<td>Wastewater</td>
<td>6,000</td>
<td>5,000</td>
<td>5,000</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>943,000</strong></td>
<td><strong>927,000</strong></td>
<td><strong>874,000</strong></td>
</tr>
</tbody>
</table>

Sum may not add up to totals due to rounding.
GHG emissions for each category are rounded to the nearest thousands. Values are not rounded in the intermediary steps in the calculation.
*Based on SANDAG Series 13 vehicle miles traveled (VMT) estimates. 2012 is the Base Year.
Energy Policy Initiatives Center, 2018

Source: EPIC
Projections

Source: EPIC
Targets for California

- **2020**: Assembly Bill 32
  - Return to 1990 GHG levels

- **2030**: Senate Bill 32
  - 40% below 1990 GHG levels

- **2050**: Executive Order S-3-05
  - 80% below 1990 GHG levels

- **CARB 2017 Scoping Plan**
  - below 6 MT CO₂e per capita statewide
  - below 2 MT CO₂e per capita statewide

*Source: SANDAG*
Helping Close the Gap

Source: SANDAG
State and Federal Programs to Reduce Emissions

- Update Renewables Portfolio Standard
  - 43% renewables in 2016 increasing to 50% by 2030
- California Solar Policies and Programs
  - California Solar Initiative, New Solar Homes Partnership, Net Energy Metering
- California Energy Efficiency Programs (Rebates, Codes, etc.)
- Federal and California Vehicle Standards
  - Tailpipe standards through 2025 including California Zero Emissions Vehicle program
Targets for California

Figure adapted from California’s 2017 Climate Change Scoping Plan Figure 6 that shows a linear, straight-line path to the 2030 target. The 2050 goal is calculated based on 80% below 1990 level (80% below 431 MMT CO₂e).


Source: SANDAG
Theoretical Targets for Escondido

- **2014 GHG Emission**: 874 MTCO$_2$e
- **BAU 2020 GHG Emission**: 831 MTCO$_2$e
  - **40% below by 2030**
  - **80% below by 2050**
- **Est. 2030 Target**: 498 MTCO$_2$e
- **Est. 2035 Target**: 415 MTCO$_2$e
- **Est. 2050 Goal**: 166 MTCO$_2$e

**GHG Emissions**

- **2014 GHG Emission**: 874 MTCO$_2$e
- **BAU 2020 GHG Emission**: 831 MTCO$_2$e

**Theoretical Targets**

- **80% below by 2050**
Welcome...

To the next step in creating a vision for climate action planning in Escondido.

As you may know, a lot has already been done with climate action planning and regulation. We know we have much more to do, and seeking out new ways to shift our energy consumption will not be easy. But we know it’s possible. The overall purpose of the Climate Action Plan (CAP) Update is to re-define out future climate policy and find community-based solutions to improve our local environment and quality of life.

Your feedback today will be used to guide City decisions in the future.

YOUR VOICE COUNTS:

You have four (4) ways to provide input in the summer.

1. Community workshop on July 30, 2018
2. City Planning Commission meetings in August
3. Pop-up workshops – coming to a neighborhood near you
4. Mobile community conversations – invite staff to come to your group

Please refer to the project website for more information about these and other events.


The CAP Update is providing community members with a variety of opportunities to participate and create a vision for the future that reflects the community’s most important values and community-shared priorities. But the issue can be overwhelming – and it may be hard to decide where to begin. To help get you started, please use these informational station boards, ask questions, and then tell us what you think about climate action planning and what you value most.

STEP 1: Learn about climate action planning and why it is important.

STEP 2: Identify issues and opportunities and determine what changes are needed.

STEP 3: Provide feedback on potential solutions.

PROJECT TIMELINE:

- Summer 2018 – Community outreach and surveys
- Fall 2018 – Additional outreach - confirm GHG reduction approach
- Winter 2018-2019 - Public review of draft CAP update and CEQA analysis
- Spring 2019 – Public Hearings to consider approval

During the course of this work program, we will be using public input to guide the process. And the process will result in an updated CAP that will be implemented in the years to come. Therefore, we need to ensure that proposed solutions are feasible, equitable, and can be implemented efficiently. If you have any ideas on how to improve our public outreach or planning process to solicit meaningful input, please let us know.
Answer Questions...

WHAT IS A CLIMATE ACTION PLAN (CAP)?

A CAP is a comprehensive policy document that outlines the actions a jurisdiction will take to reduce greenhouse gas (GHG) emissions through the implementation of various strategies, goals, actions, and supportive measures. CAPs are commonly prepared by cities to show how local goals and policies align with statewide targets for GHG reductions.

CAPs typically follow a similar format, and specific content within a CAP is tailored to each jurisdiction’s individual needs and circumstances. Like most cities in the region, Escondido will use a five-step process for climate action planning.

California has recognized the critical role that regional and local governments play in meeting statewide GHG reduction targets and preparing communities for the impacts of climate change. Cities are assessing their community-wide GHG emissions and working on CAPs or other strategies to reduce emissions. Through planning and permitting processes, local ordinances, education efforts, and municipal operations, Escondido has influence over things that contribute to direct and indirect GHG emissions.

WHY IS ESCONDIDO UPDATING THE CAP?

Although Escondido was one of the first cities to prepare and adopt a CAP in the San Diego region, a lot has changed since then. While Escondido plays a very small role in the global problem of climate change, we need to reassess our GHG emissions and seek out solutions for reducing our carbon footprint.

Climate action planning can yield many economic and community benefits on a large scale, such as cleaner air, reduced traffic, less dependence on fossil fuels, and greater resilience to the effects of climate change. Implementation of the CAP, in conjunction with other communities in action, will also bring the following benefits to Escondido:

- Improved public health
- Enhanced community character
- New jobs and workforce opportunities
- Lower energy bills for households / businesses
- Reduced operational costs for farmers
- More energy / water resources
- Preserved ecosystem
- Lower runaway costs of change

Escondido also must show that we are working towards compliance with recent State laws, which establish statewide goals for GHG emissions.
Framing The Approach...

WHAT ARE INVENTORIES AND PROJECTIONS?

An emissions inventory is a snapshot reference of annual emissions associated with community-wide activities. Emission inventories are a critical component of the CAP update process and will be used to establish reduction targets/goals and monitor emissions over time.

Inventories are based on activities that a city has control over taking place within its boundaries. Emissions originate from a variety of sources, all of which are documented, quantified, and analyzed within an inventory. A typical inventory for a local agency captures emissions from transportation, electricity, natural gas, water, wastewater, and solid waste activities. Emissions are calculated in metric tons of carbon dioxide equivalent (MT CO₂e). Data and estimates from different organizations (e.g., SANDAG, SDG&E, local jurisdiction departments) are needed to complete an inventory. Inventories are developed based on the best available data and methods.

Escondido's revised baseline inventory is set at year 2014. The GHG baseline inventory and forecasts for 2030, 2035, and 2050 provide benchmarks against which we can set goals - and then measure future progress.

FRAMING EMISSION REDUCTION CRITERIA

The California Air Resources Board’s (CARB’s) guidance on target-setting for CAPs preserves local discretion in selecting reduction targets, yet offers recommended approaches for aligning local targets with the statewide goals. Future year targets (benchmarked to 2030, 2035, or 2050) should be based on the following accepted methods:

- Use the best science.
- Evaluate locally-appropriate emissions reduction goals.
- Show a downward-trending GHG emissions trajectory.

While there are similarities from city to city in the scope of content of local CAPs, the reduction measures and strategies within each CAP should be uniquely crafted and based on local needs and conditions.

Once emissions targets have been established, the next step in the climate action planning process is to identify the GHG reduction strategies that will achieve the targets. Federal, State, and local activities have a role to play in achieving GHG emissions reductions for a local jurisdiction.

Before developing local strategies, the GHG reduction impact of federal and State policies and programs is quantified at the local level. The difference between the legislatively-adjusted inventory and the emissions reduction targets is known as the emissions gap. Cities typically must consider different ways to “close the gap” while aligning with other priorities for the community.
How To Tell Us What You Think...

Turning the Climate Action Plan (CAP) into action rests on more than just ideas and good intentions. The CAP lists, and estimates GHG emission reductions for, actions that will directly or indirectly reduce emissions from local activities. It distinguishes between actions that can be taken by the City and those that require action by the local community.

In consideration of where the emissions are coming from and how to go about reducing these contributions, there are some additional factors that can be used to select local reduction measures, including:

- GHG reduction potential;
- ability, time, and cost to implement;
- available funding;
- community priorities;
- co-benefits (positive external impacts); and/or
- ability to administer, enforce, and/or monitor.

Through public input, Escondido will update existing CAP with new policies and measures that we can implement over time to reduce GHG emissions and achieve our reduction targets.

SHARE IDEAS AND EXPLORE WAYS TO REDUCE GHG EMISSIONS

The State GHG reduction targets for 2030 and 2050 are far more aggressive than the 2020 target. Many local jurisdictions are on track to meet 2020 GHG reduction targets, largely due to the GHG emissions reductions that come from State and federal programs. However, based on the latest information, achieving the GHG reductions to meet future targets requires more local actions.

Now is your time to weigh in through a workshop dot-exercise and/or through a passport survey! Let us know what you think!

AT THE JULY 30, 2018 WORKSHOP... Please visit the informational workshop stations, ask questions, and then identify your preferences at Station 5.

AT POP-UP AND MOBILE COMMUNITY EVENTS... Review all of the informational material and complete the questions in the Passport to share your input with us. Ask your friends and neighbors to get involved. Schedule your own event today!

FROM HOME OR OFFICE... All of the workshop material is posted online. This option allows you to review the information and determine what types of changes are needed on your own time. Submit your Passport feedback to the Planning Division by 5:00 pm on September 14, 2018.
Public Feedback

1) Dot Exercise

2) Passport
Additional Input Opportunities

• Public Workshop
• Planning Commission Meetings
• Pop-up Workshops
• Mobile Community Conversations
CLIMATE ACTION PLAN