

# Moving Forward with ClearPath

[Home](#) [About SEEC](#)

Welcome to SEEC-ClearPath California, a product of the California Statewide Energy Efficiency Collaborative Program. Within this set of tools you will be able to manage energy and greenhouse gas emissions at both the local government operation and community scales. In addition to the resources available on CaliforniaSEEC.org, please make use of the resources listed in the table below.

To get started using the tool, Click the icons for the Government Operations or Community Tracks below.

User Guides:	Office Hours	App Change Log
For more information on the tools contained in this application, download and read the user guides:  <a href="#">Quick-Start Guide</a>  <a href="#">Inventory Module</a>  <a href="#">Forecast Module</a>  <a href="#">Planning Module</a>  <a href="#">Monitoring Module</a>	Get direct assistance from ICLEI Staff during SEEC ClearPath Office Hours. Held every 2nd and 4th Thursday of the month from 11:00-12:00. Drop in any time during the session and get your questions answered. You can connect to the meeting directly with the information below.  - 5 / 21 / 2015 - 6 / 4 / 2015 - 6 / 18 / 2015 - 7 / 2 / 2015  1. Click the meeting link at the start time <a href="https://global.gotomeeting.com/join/163296605">https://global.gotomeeting.com/join/163296605</a>  2. Use your microphone and speakers (VoIP) - a headset is recommended. Or, call in using your telephone. Dial +1 (872) 240-3212 Access Code: <b>163-296-605</b> Audio PIN: Shown after joining the meeting Meeting ID: <b>163-296-605</b>	Get the latest info on upgrades, new calculators, and other content changes in the tool by viewing the SEEC ClearPath Change Log, now available here:  Last Updated: 5/18/2015 <a href="#">SEEC ClearPath Change Log</a>



## Government Track

Within this track you will find the resources you need to perform a [Local Government Operations Protocol](#) compliant greenhouse gas emissions inventory and forecast.



## Community-Scale Track

Within this track you will find the resources you need to perform a [US Community Protocol](#) compliant greenhouse gas emissions inventory and forecast.

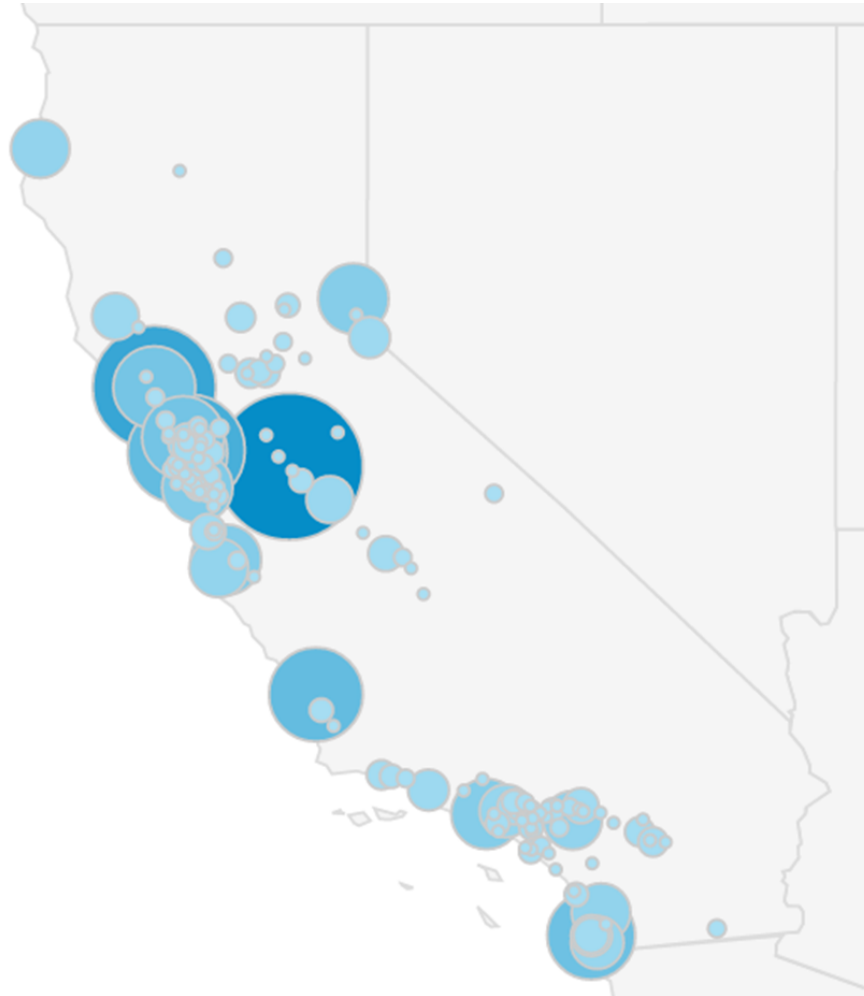
# Current CA Local Governments in SEEC



## ClearPath



Supporting California local governments



# Recent Updates & Improvements

## Inventory Updates

- Grouping Tags & Indicator Reports
- Direct Entry for LGO Vehicle Fleet
- Gov Ops Employee Transit Use & Air Travel Calculators
- Add 5<sup>th</sup> Assessment Global Warming Potentials as an option
- Change Log
- File Attachment to each calculator

## Planning Updates

- Gov Operations New Measures: PV Installation, Landfill Gas Collection & Energy Recovery, Fleet Fuel Switching
- Community New Measures: Improved

Bike Infrastructure & Compact Development, RECO/CECO, Local Green Power Purchase (Res/Com/Ind), User Defined – Waste & Waste Water

## Monitoring Module

- Release of Module in Dec 2014

## Reports

- Monitoring Reports
  - Progress/efficacy/Projects to Actual Details and Actual Summary
- GPC Reports

# Development Path Forward

Default Factor  
Sets

Clone an  
Inventory &  
Recalculate

Fuel Price &  
Cost Outputs to  
Inventory  
Calculations

Automatic data  
uploads for  
Vehicle Fleet,  
Buildings &  
Facilities

Add Validation  
Warnings

More GPC  
related  
calculators & 1-  
Click API to  
Carbonn

Resource  
Portal & Online  
Community

# Santa Monica, CA

## “Communicating Progress”



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	1990	2000	2007	2011 estimate	2015 Business as usual
<b>Population</b>	86,905	85,084	90,379	90,850	<b>93,700</b>
<b>Residential</b>	188,687	202,453	169,425	168,232	<b>168,759</b>
<b>Commercial</b>	329,295	326,164	273,377	241,806	<b>245,506</b>
<b>Industrial</b>	32,227	25,907	53,157	43,412	<b>42,131</b>
<b>Transportation</b>	299,538	300,824	327,923	306,160	<b>319,541</b>
<b>Waste</b>	74,546	47,534	38,779	38,143	<b>38,524</b>
<b>TOTAL</b>	<b>924,293</b>	<b>902,882</b>	<b>862,660</b>	<b>797,753</b>	<b>814,461</b>
<b>% below 1990 levels</b>		2.3%	6.7%	13.7%	<b>11.9%</b>

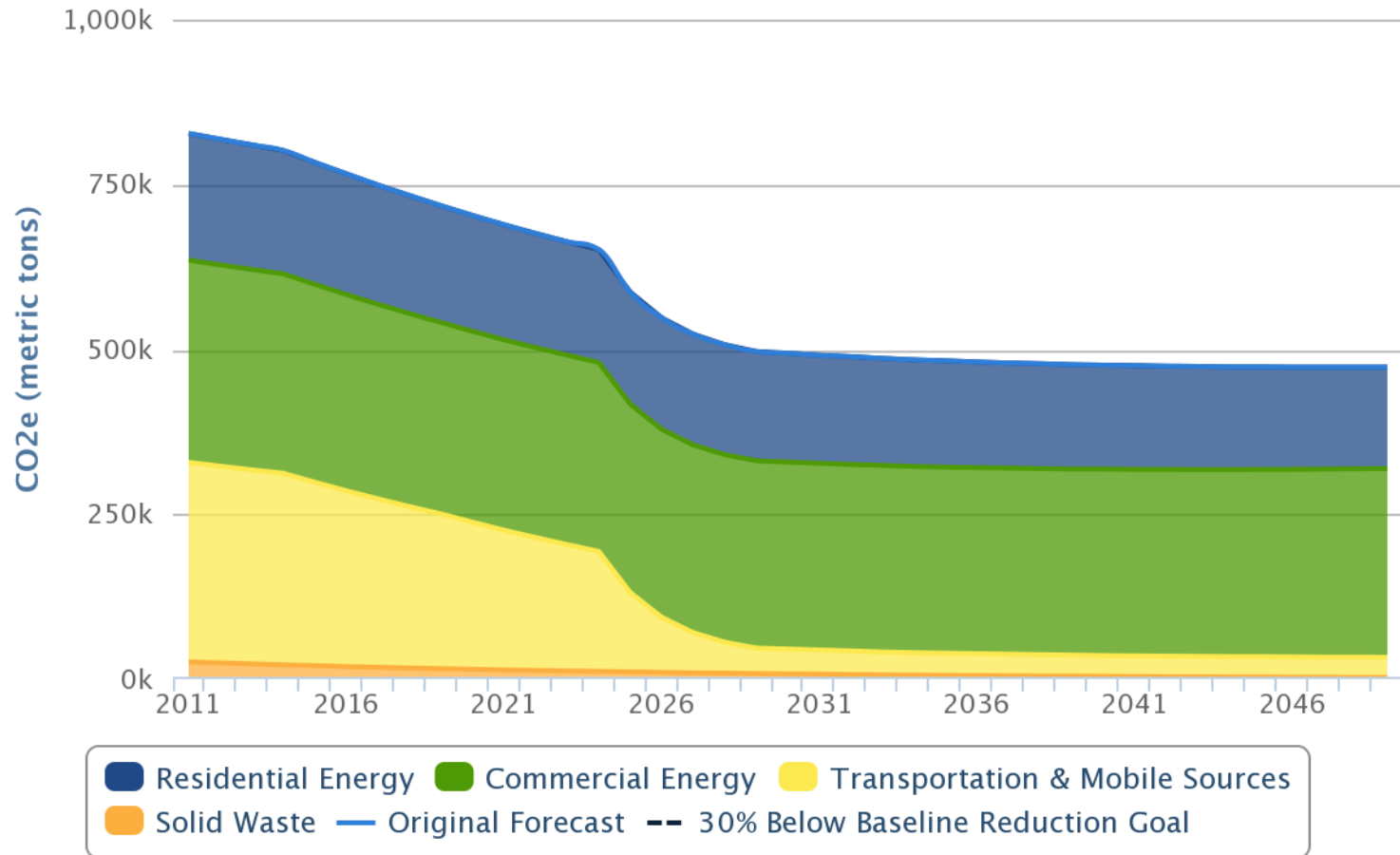
# Santa Monica, CA

## “Envisioning Carbon Neutrality”



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### Projected CO2e Values With Reductions Applied



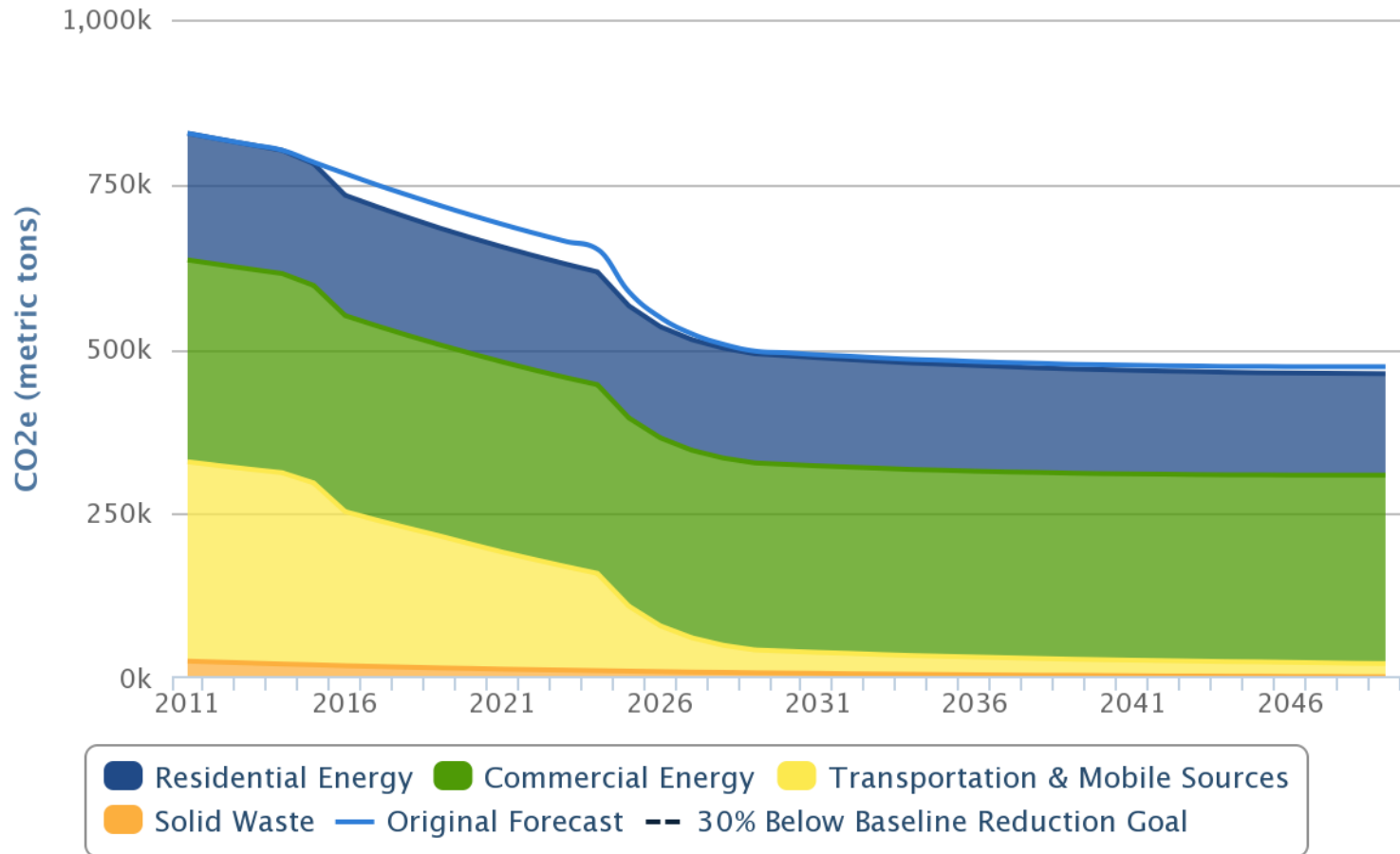
# Santa Monica, CA

## “Increase Active Transportation”



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### Projected CO2e Values With Reductions Applied



Highcharts.com

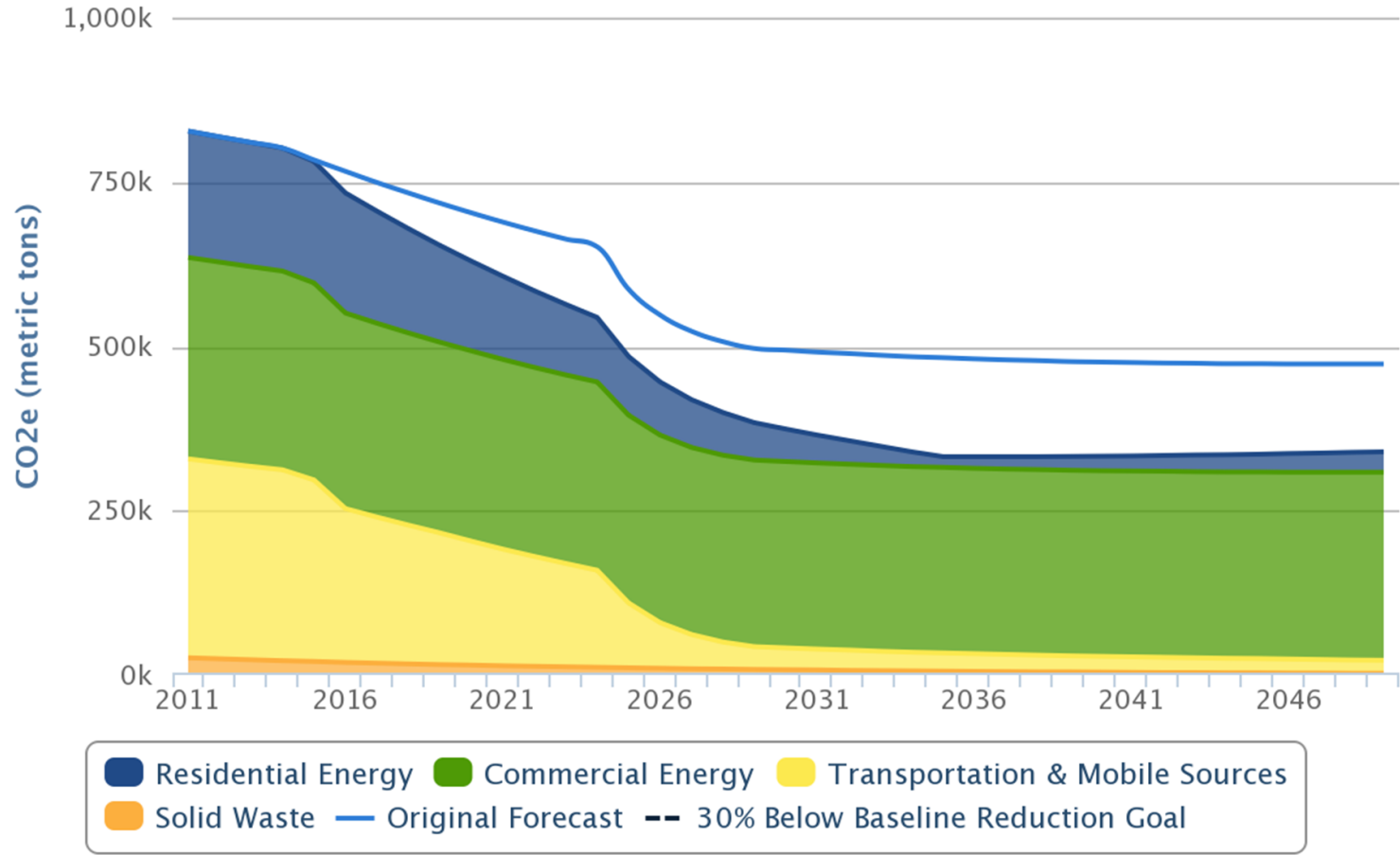
# Net Zero Homes

## “Existing Buildings and New Construction”



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### Projected CO2e Values With Reductions Applied



Highcharts.com

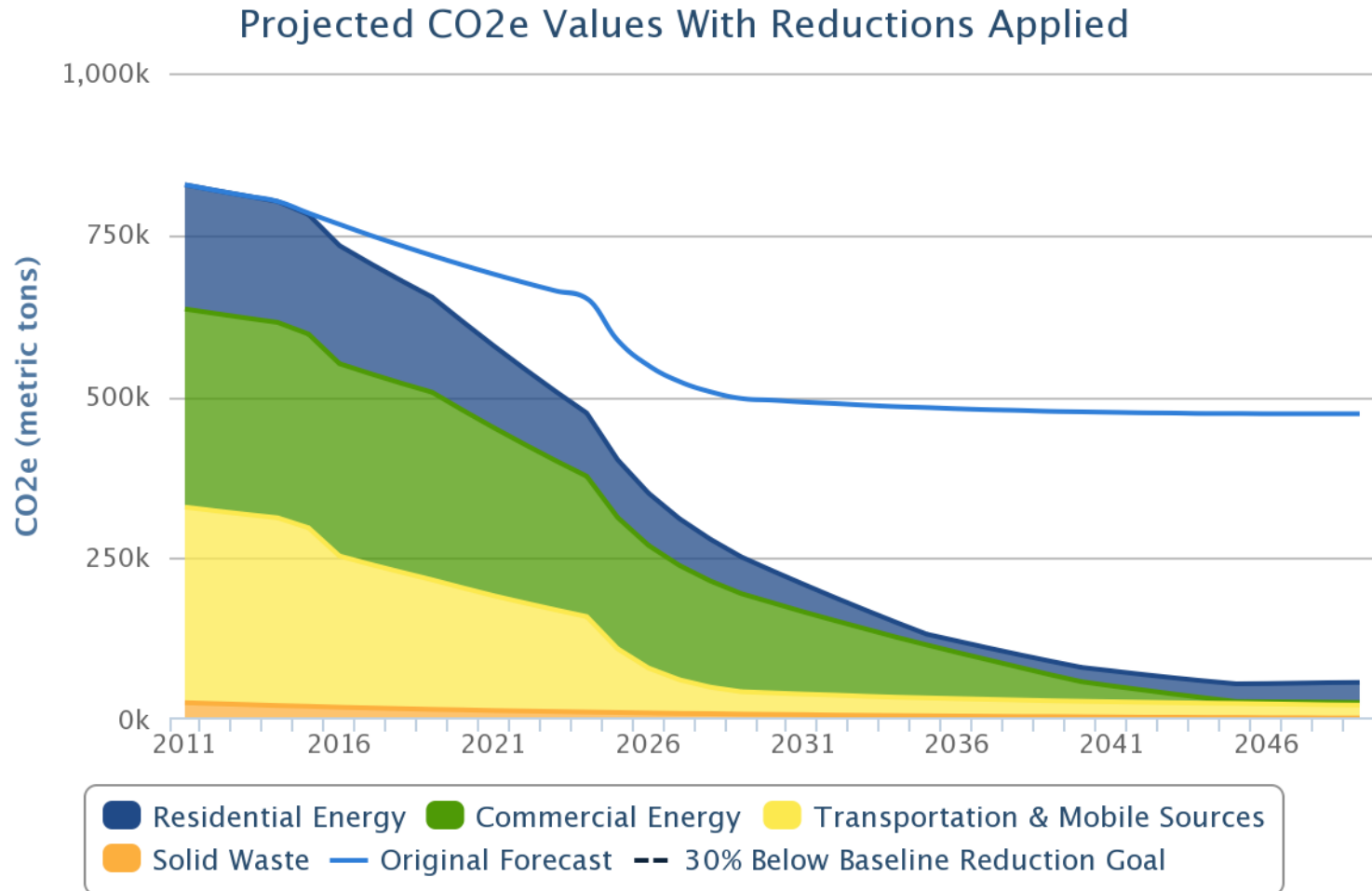


# Net Zero Commercial

## “Existing Buildings and New Construction”



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# Measuring Overall Progress with ClearPath



## Absolute Changes

- Regular Re-Inventory

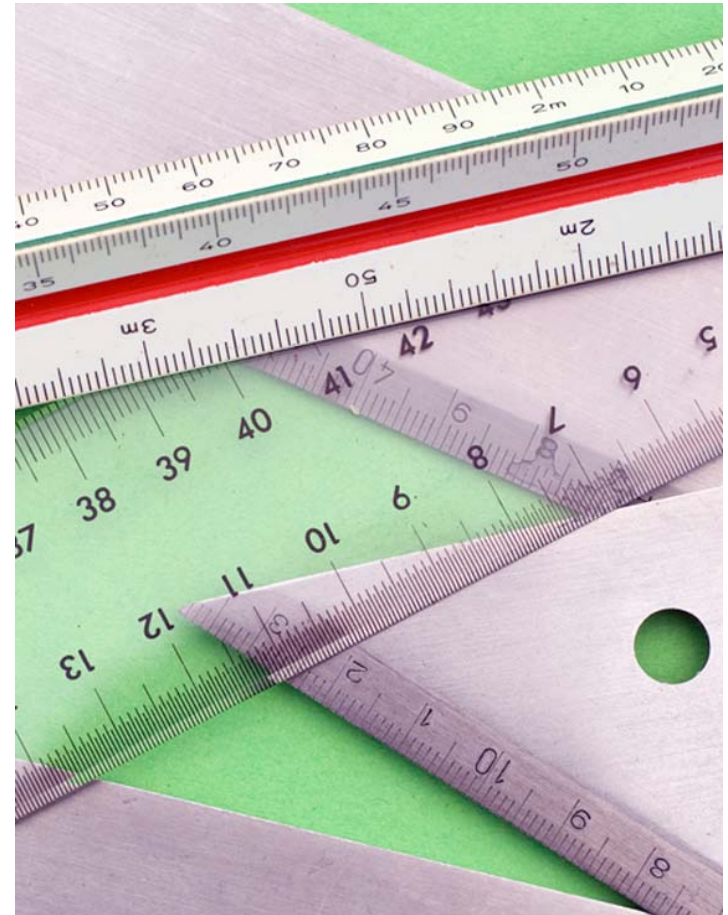
## Changes Against a Hypothetical

- Business As Usual
- Plan
- Projected Measure Savings

## Understanding Drivers

- Population (Indicator)
- Economic Activity (Indicator)
- Weather (Model)
- Fuel Prices (Model)

**Future?**



# Monitoring Module



## “Communicating Progress vs. Forecast”

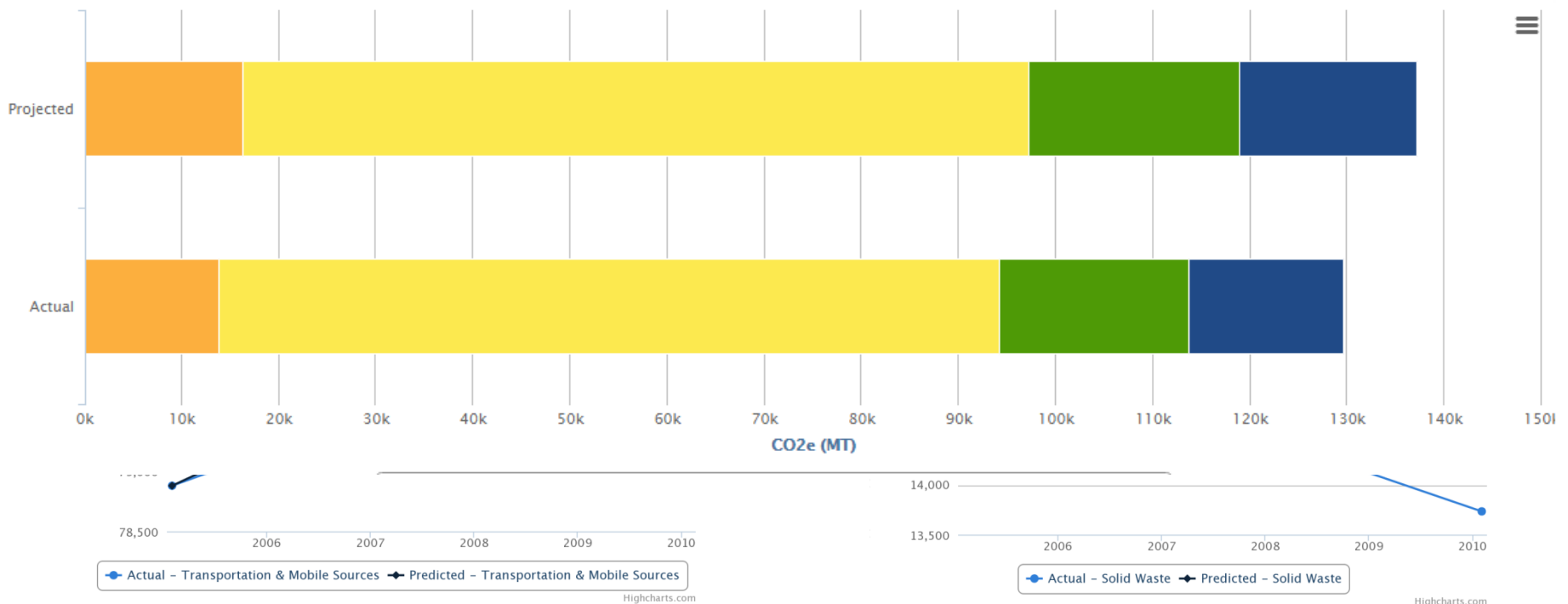
### Projected to Actual Details

### Projected to Actual Summary

Comparison of a single inventory to projected total for the same calendar year, summarized by sector.

Comparing SEEC Field Training Planning Demo to SEEC Demo 2010 Community Inventory (2010)

Series Name	Residential Energy (MT CO2e)	Commercial Energy (MT CO2e)	Transportation & Mobile Sources (MT CO2e)	Solid Waste (MT CO2e)
Projected	18251	21656	80888	16289
Actual	16000	19463	80430	13741
Difference	-2251	-2193	-458	-2548



# Monitoring Module

## “Communicating Community Progress”

\* Name

Community Generated Waste

\* Name

### Indicator Report

Comparison of indicators across years grouped by record name.

Grouping Tag	Calculator Name	Record Name	Scope	Output Name	2005	2010
Community Waste	Waste Generation	Community Generated Waste	Scope 3	Waste per Household	5.0	4.0
Community Waste	Waste Generation	Community Generated Waste	Scope 3	Waste per Business	6.0	5.0
Community Waste	Waste Generation	Community Generated Waste	Scope 3	CO2e per Household	1.0	0.8328
Community Waste	Waste Generation	Community Generated Waste	Scope 3	CO2e per Business	1.0	1.0
Residential Electricity	Emissions from Grid Electricity	Residential Electricity Consumption		MMBtu per Household	10.0	9.0
Residential Electricity	Emissions from Grid Electricity	Residential Electricity Consumption		CO2e per Household (MT)	0.88608	0.76368
Residential Electricity	Emissions from Grid Electricity	Residential Electricity Consumption		MMBtu per Person	2.0	2.0
Residential Electricity	Emissions from Grid Electricity	Residential Electricity Consumption		CO2e per Person (MT)	0.17722	0.15089
Commercial Electricity	Emissions from Grid Electricity	Commercial Electricity Consumption		MMBTU per Employee	10.0	8.0
Commercial Electricity	Emissions from Grid Electricity	Commercial Electricity Consumption		CO2e per Employee (MT)	0.85443	0.69906
Commercial Electricity	Emissions from Grid Electricity	Commercial Electricity Consumption		MMBtu per Establishment	0.0	0.0
Commercial Electricity	Emissions from Grid Electricity	Commercial Electricity Consumption		CO2e per Establishment	0.0	0.0
Community Transportation - Gasoline	On Road Transportation	Community On-Road Gasoline VMT		Emissions per Capita (MT CO2 per Person)	0.84069	0.77308

Waste Generated (wet tons) ?	75000
CH4 (MT) ?	738
CO2e (MT) ?	15498
Waste per Household	5
Waste per Business	6
CO2e per Household	1
CO2e per Business	1

Notes

Name	Value
Waste Generated (wet tons) ?	66500
CH4 (MT) ?	654
CO2e (MT) ?	13741
Waste per Household	4
Waste per Business	5
CO2e per Household	0.83280
CO2e per Business	1

# Monitoring Module

## “Communicating Progress & Efficacy”

### Implementation Progress

Comparison of Implementation of Monitoring Records to linked Reduction Measure Records

		2011	2012	2013	2014
Residential PV Promotion / Increased Solar Capacity	Planned	500	500	500	500
	Achieved	450	468	560	600
	Impact Gap	-50	-32	60	100

### Implementation Efficacy

Comparison of CO2e reductions of Monitoring Records to linked Reduction Measure Records

		2011	2012	2013	2014
Residential PV Promotion / Grid Electricity Energy Reduced (MMBtu / Year) - CO2e	Planned	-232	-222	-212	-202
	Achieved	-228	-230	-233	-238
	Impact Gap	4	-8	-21	-36

# Economic Forecasting in

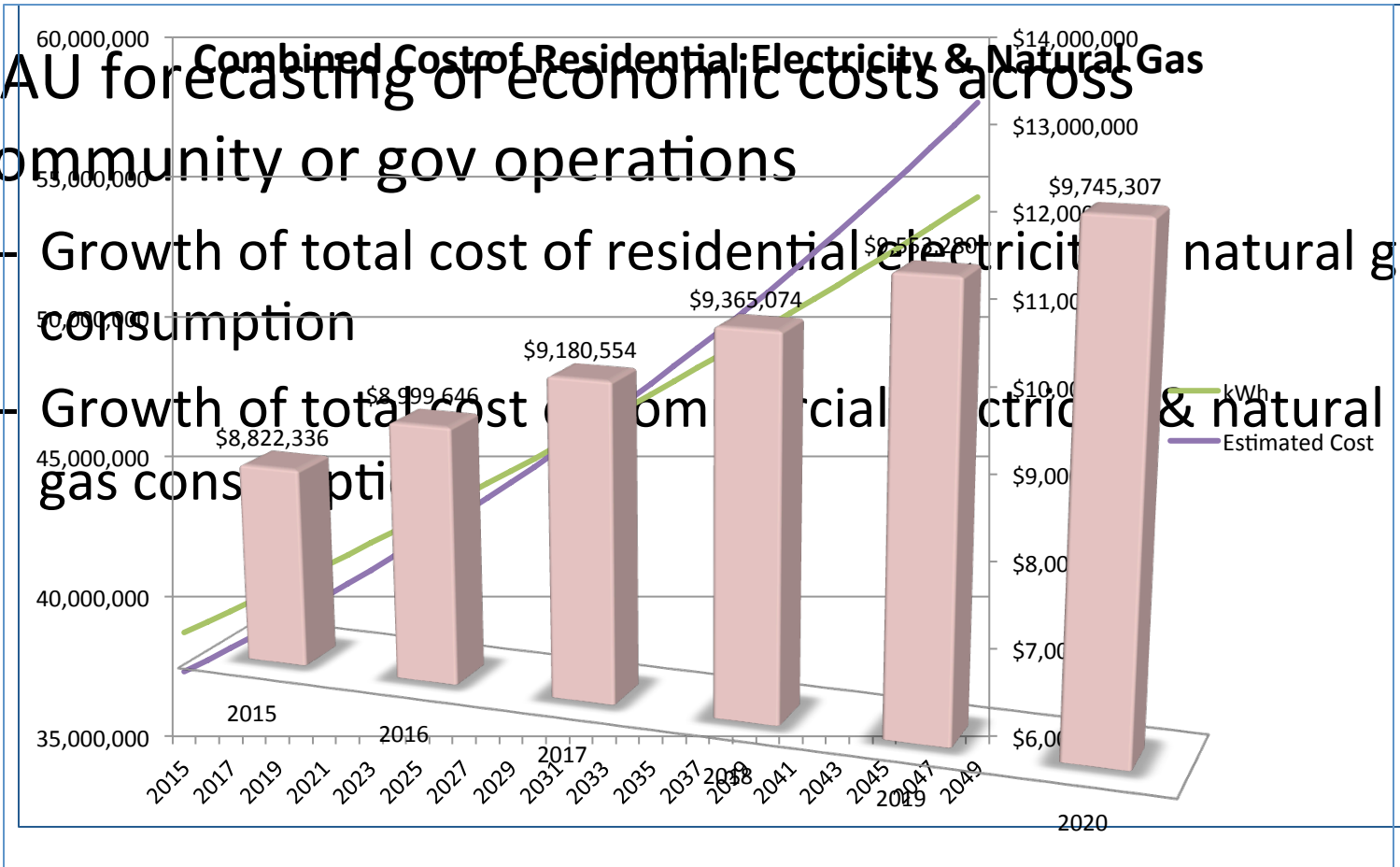


# SEEC ClearPath



Supporting California local governments

- BAU forecasting of economic costs across community or gov operations
  - Growth of total cost of residential electricity & natural gas consumption
  - Growth of total cost of commercial electricity & natural gas consumption





# SEEC ClearPath Resources



SEEC ClearPath Tool - <http://clearpath.californiaseec.org>

PDF Instructions for 4 modules and New SEEC ClearPath 101 guide (located on home page of SEEC ClearPath )

On-demand e-trainings via California SEEC website for each module and CACP data migration -  
[http://californiaseec.org/resources-guidance#b\\_start=0&c4=ondemandtraining](http://californiaseec.org/resources-guidance#b_start=0&c4=ondemandtraining)

Office Hours every 2<sup>nd</sup> and 4<sup>th</sup> Thursday of the Month via GoTo Meeting

# Questions

For General SEEC Questions:

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