

# Overview of North County CAPs

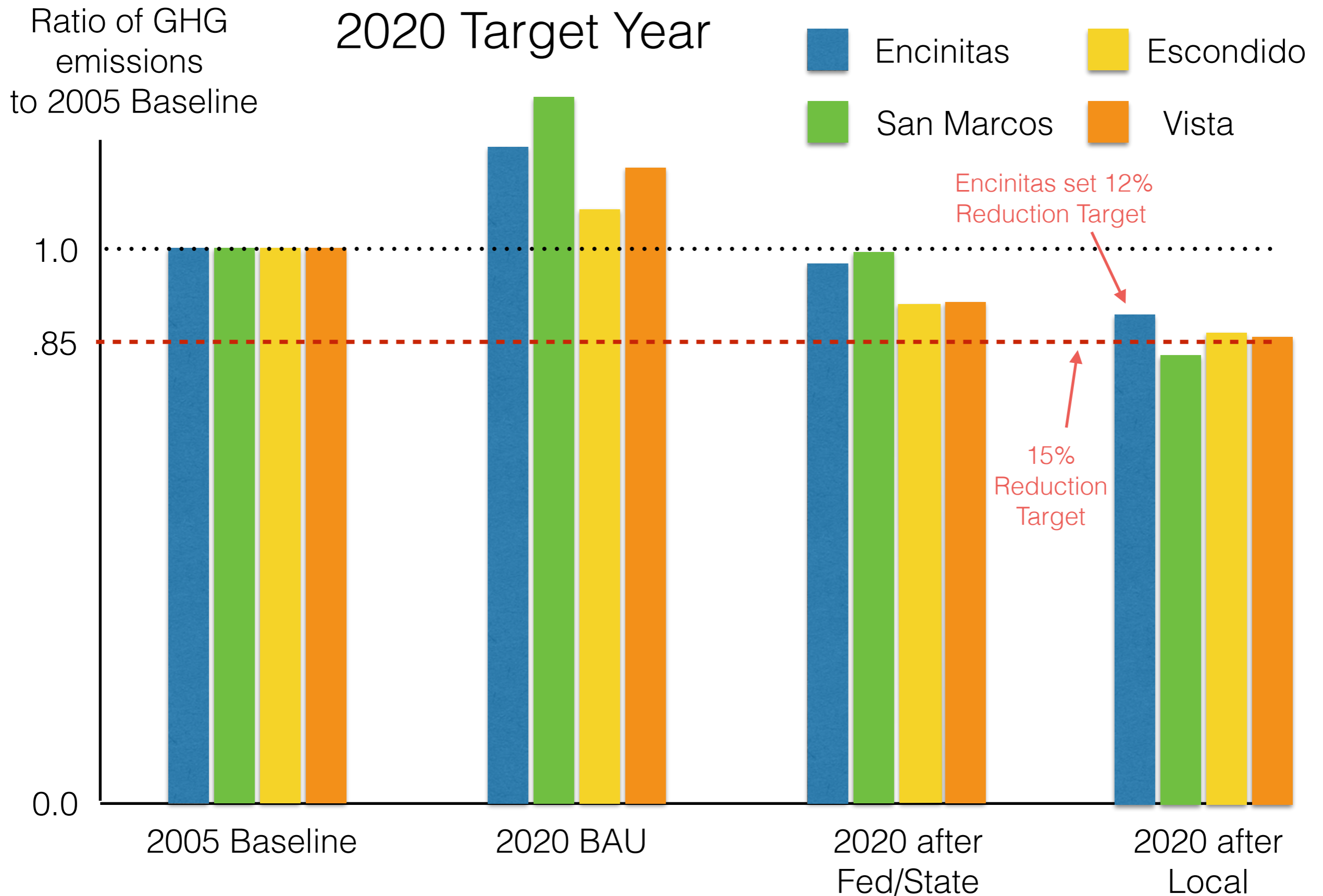
Presented to North County CAPs Workshop

May 9, 2015  
Dwain Deets

# Topics

1. CAPs Focused on 2020
2. CAPs Focused on 2035
3. North County Cities without CAPs

# Emission Reduction Steps



# NC Cities with CAPs (2020)

Emissions KMT CO <sub>2</sub> e	Encinitas	San Marcos	Escondido	Vista
Pub. date	Mar '11	Sep '13	Dec '13	Dec '13
2005 Baseline	546.5	411.9	927.3	547.0
Include pass-through trips?	Yes	No	No	Yes
2020 Target % below 2005	12%	15%	15%	15%
2020 Target	481.0	350.1	788.2	465.0
2020 BAU est.	644.5	523.7	992.7	626.0
Fed/State	-112.7	-114.6	-168.8	-133.8
Adjusted BAU	531.8	409.1	823.9	492.2
Local Measures	-51.4	-66.2	-35.7	-32.0
2020 Est.	480.4	332.9	788.2	460.2



 Meets or does better than target

KMT = 1,000 metric tons

# Transportation - Local Measures (at 2020)

Emissions KMT CO2e	Encinitas	San Marcos	Escondido	Vista
Traffic Flow	4.7	6.3		
Telework	13.7			
Smart Growth		2.7		5.0
Transit Improve			3.8	
Transportation Demand Mgmt			5.2	
Transit Travel		7.4		1.9
Other Trans.	4.9	7.5	2.7	4.1
<b>TOTAL</b>	<b>23.3</b>	<b>23.9</b>	<b>11.7</b>	<b>11.0</b>

# Energy - Local Measures (at 2020)

Emissions KMT CO2e	Encinitas	San Marcos	Escondido	Vista
New Bldg. Eff.		7.3		4.0
Exist. Bldg. Eff.		5.7		4.5
Solar WH Exist. Res	4.3			
Solar PV Exist. Res	3.9			
Com. Bldg. Eff. Req.			3.7	
Res. Eng. Retrofits			4.1	
Small-Scale Renewable Power		3.3		3.7
Smart Meters		2.1		3.5
Other Energy	4.3	7.2	8	0.1
<b>TOTAL</b>	<b>12.5</b>	<b>25.6</b>	<b>15.8</b>	<b>15.8</b>

# Solid Waste - Local Measures (at 2020)

Emissions KMT CO <sub>2</sub> e	Encinitas	San Marcos	Escondido	Vista
Zero-waste Community	15.4			
Solid Waste Reduction & Recycling		7.5		
Waste Disposal Programs			6.2	
Other Solid Waste				4.6
<b>TOTAL</b>	<b>15.4</b>	<b>7.5</b>	<b>6.2</b>	<b>4.6</b>

# Misc. - Local Measures (at 2020)

Emissions KMT CO2e	Encinitas	San Marcos	Escondido	Vista
Water		4.4	1.2	
Urban Greening				0.1
Off-Road Equipment		4.0	0.8	
Municipal Operations	0.2	0.8		0.5
<b>TOTAL</b>	<b>0.2</b>	<b>9.2</b>	<b>2.0</b>	<b>0.6</b>



# Totals - Local Measures (at 2020)

Emissions KMT CO2e	Encinitas	San Marcos	Escondido	Vista
Transportation	23.3	23.9	11.7	11.0
Energy	12.5	25.6	15.8	15.8
Solid Waste	15.4	7.5	6.2	4.6
Misc.	0.2	9.2	2.0	0.6
<b>TOTAL</b>	<b>51.4</b>	<b>66.2</b>	<b>35.7</b>	<b>32</b>

# Emission Reduction Steps

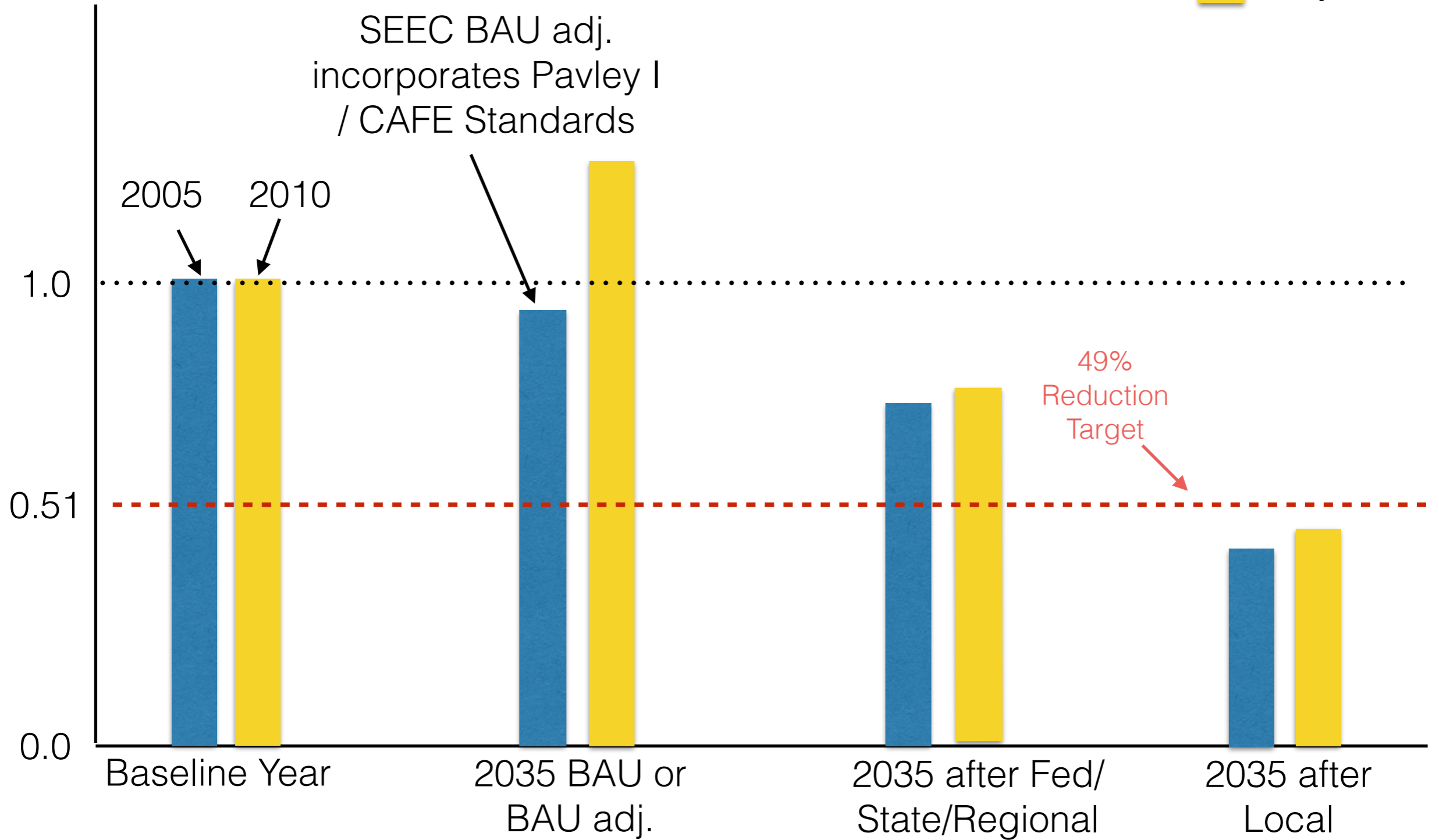
Ratio of GHG emissions to Baseline Year

2035 Target Year

- Carlsbad
- City of S.D.

SEEC BAU adj. incorporates Pavley I / CAFE Standards

2005 2010



# Cities with Serious CAPs (2035)

Emissions KMT CO2e	Carlsbad*	City of S.D.*
Pub. date	Mar '14	Mar '15
2005 Baseline	630.3	(used 2010)
Include pass-through trips?	No	?
2035 BAU Est.	1,007.5	16,428.1
2035 Target % below baseline Yr	49%	51%
2035 Target	321.5	6,382.7
SEEC Adj. 2035 BAU est.	589.8	N.A.
Fed/State/Region	-126.0	-6,520.8
Local Responsibility	463.8	9,907.3
General Plan & Local Measures	-194.2	-3,531.0
2035 Est.	269.6	6,376.3

\* Draft CAP



Meets or does better than target

# Assumptions on Fed/State/Region (2035)

Emissions KMT CO2e	Carlsbad	City of S.D.
Vehicle Efficiency-Pavley I / CAFE (Fed)	Included in SEEC	2,347.7
RPS (assuming at 33% in 2035)	36.2	
RPS (assuming at 60% in 2035)		390.6
Utility Efficiency Programs	Opportunity post 3/2014	498.5
Solar Programs that don't double count		752.6
Low Carbon Fuel Standard	14.9	534.9
GHG Reduc from Rising Gasoline Prices	71.3	
Electric Vehicle Policies & Programs		1,155.9
CARB Tire Pressure Program		28.8
CARB Heavy Duty Vehicle Aerodyn.		9.0
Title 24 Build'g Efficiency Improvements	3.6	
Regional - SANDAG SB 375	Considered separate from this CAP	794.9
<b>TOTAL</b>	<b>126.0</b>	<b>6,513.0</b>

# Top Local Measures (at 2035)

<b>Percent of City's Local Measures</b>	<b>Carlsbad</b>	<b>City of S.D.</b>
<b>Community Choice Aggregation</b>		74%
<b>Promote an increase of Zero-Emissions Vehicle Travel</b>	29%	
<b>Promote Transportation Demand Management Strategies</b>	13%	
<b>Promote Replacement of Bulbs with LEDs or equiv.</b>	12%	
<b>Divert Solid Waste and Capture Landfill Emission</b>		10%

# North County Cities without CAPs (Draft or Adopted)

1. Del Mar
2. Oceanside
3. Poway
4. Solana Beach (in process)

# Solana Beach

- Working on General Plan update, including EIR and drafting CAP
- May 9, 2013 — CAP Workshop with EPIC
- Sep 12, 2013 — EIR Scoping Meeting
- March 26, 2014 — City Council provided policy direction for assessing Transportation impacts
- Status link at: [http://www.ci.solana-beach.ca.us/vertical/sites/%7B840804C2-F869-4904-9AE3-720581350CE7%7D/uploads/CAP\\_Workshop\\_\(August\\_6\\_2014\).pdf](http://www.ci.solana-beach.ca.us/vertical/sites/%7B840804C2-F869-4904-9AE3-720581350CE7%7D/uploads/CAP_Workshop_(August_6_2014).pdf)

# CAP Local Emission Reduction Measures

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Category	Item	Carlsbad	Encinitas	Escondido	SD City	San Marcos	Vista	SD County
<b>Energy Efficiency</b>	New Bldg	X	X		X	X	X	X
	Residential Retrofit	X		X	X	X	X	X
	Commercial Retrofit	X		X	X	X	X	X
	Smart Meters					X	X	X
	Solar Water Heaters	X	X		X			X
	Solar -Residential	X	X	X	X	X	X	X
	Solar- Commercial	X		X	X	X	X	X
	Promote Co-gen	X						
	Appliance Upgrades							X
	Replace LED bulbs	X						
<b>Transportation</b>	Public Transit			X	X	X	X	X
	Bicycle		X	X	X	X	X	X
	Parking policies		X					
	Pedestrian				X	X	X	X
	Electric Vehicles	X			X	X		X
	Ridesharing/Commute		X			X	X	X
	Promote TDM	X		X				
	Support SANDAG				X			
	Construction Eqmt			X		X		
	Lawn/Garden Eqmt			X		X		



# CAP Local Emission Reduction Measures

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Category	Item	Carlsbad	Encinitas	Escondido	SD City	San Marcos	Vista	SD County
<b>Water</b>	Conservation				X	X		X
	Recycled water					X		
	Supply/Treatment	X						
	Grey/Rainwater	X						
<b>Waste Management</b>	Divert Landfill/Recycle			X	X	X	X	
	Zero Waste		X					
	Methane Recapture				X			
	Demolition Diversion						X	
<b>Land Use</b>	Mixed Use/Smart Growth					X	X	X
<b>Agriculture/Forest</b>	Urban Tree Coverage				X	X	X	X
	Reduce Urban Heat Island				X			
	Advocate GHG Sequest.				X			
	Nitrogen Optim							X
	Field Eqmt Efficiency							X
	Irrig Pump Efficiency							X

