



SOUTHERN CALIFORNIA
ASSOCIATION OF GOVERNMENTS
900 Wilshire Blvd., Ste. 1700
Los Angeles, CA 90017
T: (213) 236-1800
www.scag.ca.gov

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County

REGULAR MEETING

ENERGY AND ENVIRONMENT COMMITTEE

Thursday, November 1, 2018
10:00 AM

SCAG MAIN OFFICE
900 Wilshire Blvd., Ste. 1700
Policy A Meeting Room
Los Angeles, CA 90017
(213) 236-1800

If members of the public wish to review the attachments or have any questions on any of the agenda items, please contact Tess Rey-Chaput at (213) 236-1908 or via email at REY@scag.ca.gov. Agendas & Minutes for the Energy and Environment Committee are also available at: www.scag.ca.gov/committees

SCAG, in accordance with the Americans with Disabilities Act (ADA), will accommodate persons who require a modification of accommodation in order to participate in this meeting. SCAG is also committed to helping people with limited proficiency in the English language access the agency's essential public information and services. You can request such assistance by calling (213) 236-1908. We request at least 72 hours (three days) notice to provide reasonable accommodations and will make every effort to arrange for assistance as soon as possible.



ENERGY AND ENVIRONMENT COMMITTEE AGENDA

Energy and Environment Committee *Members – November 2018*

1. **Sup. Linda Parks**
EEC Chair, Ventura County
 2. **Sup. Luis Plancarte**
EEC Vice Chair, Imperial County
 3. **Hon. Ana Beltran**
Westmorland, ICTC
 4. **Hon. Margaret Clark**
Rosemead, RC District 32
 5. **Hon. Maria Davila**
South Gate, GCCOG
 6. **Hon. Ned Davis**
Westlake Village, LVMCOG
 7. **Hon. Peggy Delach**
Covina, RC District 33
 8. **Hon. Paula Devine**
Glendale, AVCJPA
 9. **Hon. Jordan Ehrenkranz**
Canyon Lake, WRCOG
 10. **Hon. Mitchell Englander**
Los Angeles, RC District 59
 11. **Hon. Larry Forester**
Signal Hill, GCCOG
 12. **Hon. Mike Gardner**
Riverside, WRCOG
 13. **Hon. Sandra Genis**
Costa Mesa, OCCOG
 14. **Hon. Jon Harrison**
Redlands, SBCTA
 15. **Hon. Shari Horne**
Laguna Woods, OCCOG
 16. **Hon. Diana Mahmud**
South Pasadena, SGVCOG
-



ENERGY AND ENVIRONMENT COMMITTEE AGENDA

- 17. Hon. Judy Mitchell**
Rolling Hills Estates, RC District 40
 - 18. Hon. Cynthia Moran**
Chino Hills, SBCTA
 - 19. Hon. Judy Nelson**
Glendora, SGVCOG
 - 20. Hon. Pam OConnor**
Santa Monica, WSCCOG
 - 21. Hon. Jim Osborne**
Lawndale, SBCCOG
 - 22. Hon. David Pollock**
Moorpark, VCOG
 - 23. Hon. Carmen Ramirez**
Oxnard, RC District 45
 - 24. Hon. Deborah Robertson**
Rialto, RC District 8
 - 25. Hon. Laura Rosenthal**
Malibu, RC District 44
 - 26. Hon. Meghan Sahli-Wells**
Culver City, RC District 41
 - 27. Hon. Betty Sanchez**
Coachella, CVAG
 - 28. Hon. Emma Sharif**
Compton, RC District 26
 - 29. Hon. Diane Williams**
Rancho Cucamonga, SBCTA
 - 30. Hon. Edward Wilson**
Signal Hill, GCCOG
 - 31. Hon. Bonnie Wright**
Hemet, WRCOG
-



ENERGY AND ENVIRONMENT COMMITTEE AGENDA

Southern California Association of Governments
900 Wilshire Boulevard, Suite 1700 – Policy A Meeting Room
Los Angeles, California 90017
Thursday, November 1, 2018
10:00 AM

The Energy and Environment Committee may consider and act upon any of the items on the agenda regardless of whether they are listed as Information or Action items.

CALL TO ORDER AND PLEDGE OF ALLEGIANCE

(The Honorable Linda Parks, Chair)

PUBLIC COMMENT PERIOD

Members of the public desiring to speak on items on the agenda, or items not on the agenda, but within the purview of the Committee, must fill out and present a Public Comment Card to the Assistant prior to speaking. Comments will be limited to three (3) minutes per speaker. The Chair has the discretion to reduce the time limit based upon the number of speakers and may limit the total time for all public comments to twenty (20) minutes.

REVIEW AND PRIORITIZE AGENDA ITEMS

CONSENT CALENDAR

Approval Items

1. Minutes of the EEC Meeting, October 4, 2018 (page 6)

Receive and File

2. Draft 2019 Local Profiles Data Update (page 12)
3. Status Update on the 2020 RTP/SCS PEIR (page 22)
4. Future Communities Pilot Program Guidelines (page 24)
5. Update on SCAG's Bottom-Up Local Input and Envisioning Process (page 42)
6. Transit Climate Adaptation and Resiliency Assessment (page 54)

INFORMATION ITEMS

7. 2019 California Building Energy Efficiency Standards (page 57) 30 Mins.
(Dave Ashuckian, Division Director, Building Efficiency, CEC)
 8. 4th California Climate Change Assessment - SCAG Regional Report (page 66) 45 Mins.
(Dr. Neil Berg, Associate Director, Center for Climate Science, UCLA)
 9. AB 617 Implementation Status Update (page 89) 30 Mins.
(David Salardino, Air Resources Supervisor, Office of Community Air Protection, California Air Resources Board)
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ENERGY AND ENVIRONMENT COMMITTEE AGENDA

10. Transportation Electrification Partnership – Los Angeles Cleantech Incubator 15 Mins.
(page 99)
(Michelle Kinman, Director of Transportation, Los Angeles Cleantech Incubator)

CHAIR'S REPORT

(The Honorable Linda Parks, Chair)

STAFF REPORT

(Grieg Asher, SCAG Staff)

FUTURE AGENDA ITEMS

ANNOUNCEMENTS

ADJOURNMENT



Southern California Association of Governments
900 Wilshire Blvd., Suite 1700, Los Angeles, CA 90017

ENERGY AND ENVIRONMENT COMMITTEE
MINUTES OF THE MEETING
THURSDAY, OCTOBER 4, 2018

THE FOLLOWING MINUTES ARE A SUMMARY OF ACTIONS TAKEN BY THE ENERGY AND ENVIRONMENT COMMITTEE. A DIGITAL RECORDING OF THE ACTUAL MEETING IS AVAILABLE IN SCAG’S LOS ANGELES OFFICE.

Members Present

- | | | |
|-----|---------------------------------------|----------------|
| 1. | Sup. Linda Parks (Chair) | Ventura County |
| 2. | Hon. Margaret Clark, Rosemead | District 32 |
| 3. | Hon. Jordan Ehrenkranz, Canyon Lake | WRCOG |
| 4. | Hon. Larry Forester, Signal Hill | GCCOG |
| 5. | Hon. Mike Gardner, Riverside | WRCOG |
| 6. | Hon. Diana Mahmud, South Pasadena | SGVCOG |
| 7. | Hon. Pam O’Connor, Santa Monica | WCCOG |
| 8. | Hon. Jim Osborne, Lawndale | SBCCOG |
| 9. | Hon. David Pollock, Moorpark | VCOG |
| 10. | Hon. Carmen Ramirez, Oxnard | District 45 |
| 11. | Hon. Laura Rosenthal, Malibu | District 44 |
| 12. | Hon. Meghan Sahli Wells, Culver City | WCCOG |
| 13. | Hon. Emma Sharif, Compton | GCCOG |
| 14. | Hon. Edward HJ Wilson, Signal Hill | GCCOG |
| 15. | Hon. Diane Williams, Rancho Cucamonga | SBCTA |

Members Not Present

- | | | |
|-----|---|-----------------|
| 16. | Sup. Luis Plancarte, Imperial County (Vice Chair) | Imperial County |
| 17. | Hon. Ana Beltran, Westmoreland | ICTC |
| 18. | Hon. Maria Davila, South Gate | GCCOG |
| 19. | Hon. Ned Davis, Westlake Village | LVMCOG |
| 20. | Hon. Peggy Delach, Covina | District 33 |
| 21. | Hon. Paula Devine, Glendale | AVCJPA |
| 22. | Hon. Mitchell Englander, Los Angeles | District 59 |
| 23. | Hon. Sandra Genis, Costa Mesa | OCCOG |
| 24. | Hon. Shari Horne, Laguna Woods | OCCOG |
| 25. | Hon. Judy Mitchell, Rolling Hills Estates | District 40 |
| 26. | Hon. Cynthia Moran, Chino Hills | SBCTA |
| 27. | Hon. Judy Nelson, Glendora | SGVCOG |
| 28. | Hon. Deborah Robertson, Rialto | District 8 |
| 29. | Hon. Betty Sanchez, Coachella Valley | CVAG |
| 30. | Hon. Bonnie Wright, Hemet | WRCOG |
| 31. | VACANT | BIASC |

Attachment: EEC Meeting Minutes - Oct 2018 (Minutes of the EEC Meeting, October 4, 2018)

The Energy and Environment Committee (EEC) held its meeting at 900 Wilshire Boulevard, Suite 1700, Los Angeles, CA 90017. A quorum was present.

CALL TO ORDER AND PLEDGE OF ALLEGIANCE

The Honorable Linda Parks, Chair, called the meeting to order at 10:05 a.m. and asked Councilmember Larry Forester, Signal Hill, Gateway Cities Council of Governments (GCCOG), to lead the Pledge of Allegiance.

For today's meeting, Chair Linda Parks announced the committee will be using a new electronic voting system that will enhance the members' boardroom experience by utilizing touch-screen voting, navigating a paperless agenda, and using a digital speaker signup. The members watched a 4-minute training video to view the features and functions of the new e-system.

Chair Linda Parks announced Hasan Ikhata's resignation as SCAG's Executive Director. She noted many accomplishments and accolades Mr. Ikhata had received through the years to become a major leader in California. Hasan Ikhata made remarks and thanked Chair Parks and the members of the Energy and Environment Committee. He stated he is honored and humbled in working for the members and commended them for the work that they do for the region. Mr. Ikhata expressed gratitude and appreciation for their collaboration and professionalism.

PUBLIC COMMENT PERIOD

There was no public comment speaker.

REVIEW AND PRIORITIZE AGENDA ITEMS

There was no reprioritization of the agenda.

CONSENT CALENDAR

Approval Item

1. Minutes of the Meeting, September 6, 2018

Receive and File

2. Proposed Affordable Clean Energy Rule
3. Notification to HCD and Caltrans of Estimated RTP Adoption Date
4. High Quality Transit Area (HQTA) Pilot Project
5. Highlights from 29th Annual Demographic Workshop – June 11, 2018
6. APA California Recognizes Outstanding Planning in the SCAG Region

A MOTION was made (Pollock) to approve the Consent Calendar. Motion was SECONDED (Osborne) and passed by the following votes:

AYE/S: Parks, Clark, Ehrenkranz, Forester, Gardner, Mahmud, O'Connor, Osborne, Pollock, Ramirez, Rosenthal, Sahli-Wells, Sharif and Williams (14).

NOE/S: None (0).

ABSTAIN: None (0).

INFORMATION ITEMS

7. Future Communities Pilot Program Update

Chair Parks introduced the item and asked Rye Baerg, SCAG staff, to provide background information.

Illustrating with a PowerPoint presentation, Mr. Baerg provided the Future Communities Pilot Program (FCPP) Research project goals; discussed the expert interview takeaways; readiness survey which consisted of 96 online responses and 31 fleet inventory responses; case studies; and call for projects. He responded to questions regarding funding sources for the program. In closing, Mr. Baerg announced the FCPP team will present the proposed guidelines at the November 2018 meeting for review and recommendation for Regional Council approval.

On behalf of the EEC members, Chair Parks thanked Mr. Baerg for his presentation.

8. Go Human Campaign Update

Chair Linda Parks introduced the item and asked Lindsey Hansen, SCAG staff, to provide background information.

9. Environmental Justice Working Group Update

Chair Linda Parks introduced the item and asked Anita Au, SCAG staff, to provide background information.

10. 2018 Green Region Innovation Index

Chair Parks welcomed and introduced Adam Fowler, Beacon Economics, who provided a presentation regarding the Tenth Annual California Green Innovation Index, in partnership with Next10, an independent, nonpartisan organization that educates, engages and empowers Californians to improve the state's future.

On behalf of the EEC members, Chair Parks thanked Mr. Fowler for his presentation.

11. Community Choice Aggregation (CCA) Update

Chair Linda Parks welcomed and introduced Barbara Spoonhour, Director of Energy and Environmental Programs, Western Riverside Council of Governments.

Illustrating with a PowerPoint Presentation, Ms. Spoonhour provided background information regarding Clean Power Alliance. She discussed the partnership with member agencies and renewable energy opportunities and shared benefits for businesses, residents and communities. Ted Bardacke, Executive Director, Clean Power Alliance, made remarks and stated that Clean Power Alliance, a Joint Powers Authority, is comprised of 31 member jurisdictions across Los Angeles and Ventura counties. He further discussed the agency's energy resources that provides renewable energy opportunities and cost competitiveness including its launch service in February and May 2019. In closing, he cited CCA's core authorities such as, set rates, procurement and release of long-term for offers.

On behalf of the EEC members, Chair Parks thanked the guest speakers for their presentation.

12. Global Climate Action Summit (GCAS) Report

Chair Parks introduced the item. Councilmembers Carmen Ramirez, Pam O'Connor and Meghan Sahli-Wells provided reports regarding their participation at the 2018 Global Climate Action Summit (GCAS) in San Francisco, convened on September 12 – 14, 2018. They discussed the Summit's plenary sessions on decarbonization of global, national and local economies and takeaways from the summit.

CHAIR'S REPORT

A report was not provided.

STAFF REPORT

Grieg Asher, SCAG staff, thanked the members for their patience with utilizing the new agenda and voting system.

FUTURE AGENDA ITEM/S

Chair Parks asked that an item be added to a future agenda regarding food waste and how it affects greenhouse gas emissions and transportation. Chair Parks suggested combining this topic along with Councilmember Clark's request for an item be added to a future agenda regarding organic waste recycling, reduction and strategies.

ANNOUNCEMENT/S

President Wapner announced the formation of an Emerging Technologies Committee which would be a new committee reporting to the Regional Council to continue the work and discussion established by the Open Data/Big Data – Smart and Connected SCAG Region Committee. He stated the purpose of the Emerging Technologies Committee is to research and identify new and emerging technologies that play an important role in the RTP/SCS; and for the three (3) policy committees to utilize the Emerging Technologies Committee as a resource. If interested in serving the committee, President Wapner asked the members to contact SCAG staff as appointments will be formalized at the November 1 Regional Council meeting.

Chair Parks announced the Executive Education Forum for Policy (EXED) for Local Leaders at the University of Southern California's Sol Price School of Public Policy (USC Price) is accepting applications for the Local Leaders Program. The program—designed for local elected officials—offers a focused curriculum in ethics,

governance, leadership and public policy to promote and enhance commitment to public value and reach across sectors.

Councilmember Laura Rosenthal, Malibu, District 44, announced the National League of Cities' resolution in support of local control over rodenticide/pesticide use. Councilmember Rosenthal encouraged writing a similar letter urging the state legislature to pass a bill to support allowing individual cities to enact laws regarding pesticide and herbicide use. For those interested in more information, Councilmember Rosenthal can be contacted directly at the City of Malibu.

ADJOURNMENT

There being no further business, Chair Parks adjourned the EEC meeting at 12:00 p.m. The next regular meeting is scheduled for Thursday, November 1, 2018.

[MINUTES ARE UNOFFICIAL UNTIL APPROVED BY THE EEC]

Energy and Environment Committee Regularly Scheduled Meetings Attendance Report

2018

MEMBERS	Date Appointed if after 1/1/18	Representing	COUNTY	2018												Total Mtgs Attended To Date	
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
Beltran, Ana		Westmoreland, ICTC	Imperial		1	1	0						0				2
Clark, Margaret		Rosemead, RC District 32	Los Angeles		1	1	1						1	1			5
Davila, Maria	8/20/2018	South Gate, GCCOG	Los Angeles										0				0
Davis, Ned		Westlake Village, LVMOG	Los Angeles		0	1	0						1				2
Delach, Peggy		Covina, RC District 33	Los Angeles		0	0	0						0				0
Devine, Paula		Glendale, AVCJPA	Los Angeles		1	0	1						1				3
Ehrenkranz, Jordan		Canyon Lake, WRCOG	Riverside		1	1	0						1	1			4
Englander, Mitchell		Los Angeles, RC District 59	Los Angeles		0	0	0						0				0
Forester, Larry		Signal Hill, GCCOG	Los Angeles		1	1	1						1	1			5
Gardner, Mike		Riverside, WRCOG	Riverside		1	0	0						1	1			3
Genis, Sandra		Costa Mesa, OCCOG	Orange		1	0	1						0				2
Horne, Shari		Laguna Woods, OCCOG	Orange		1	1	1						1				4
Mahmud, Diana		So. Pasadena, SGVCOG	Los Angeles		0	1	0						0	1			2
Mitchell, Judy		Rolling Hills Estates, RC District 40	Los Angeles		1	1	0						1				3
Moran, Cynthia	2/1/2018	Chino Hills, SBCTA	San Bernardino		1	1	1						0				3
Nelson, Judy		Glendora, SGVCOG	Los Angeles		0	0	1						0				1
O'Connor Pam	6/1/2018	Santa Monica, WCCOG	Los Angeles										0	1			1
Osborne, Jim		Lawndale, SBCCOG	Los Angeles		0	0	1						0	1			2
Parks, Linda (CHAIR)		Ventura County	Ventura		1	1	1						0	1			4
Plancarte, Luis (Vice Chair)		Imperial County	Imperial		1	1	1						1				4
Pollock, David		Moorpark, VCOG	Ventura		1	1	1						1	1			5
Ramirez, Carmen		Oxnard, RC District 45	Ventura		1	1	1						1	1			5
Robertson, Deborah		Rialto, RC District 8	San Bernardino		0	0	0						0				0
Rosenthal, Laura		Malibu, RC District 44	Los Angeles		0	1	1						1	1			4
Sahli-Wells, Meghan		Culver City, RC District 41	Los Angeles		1	1	1						1	1			5
Sanchez, Betty		Coachella, CVAG	Riverside		1	1	1						0				3
Sharif, Emma		Compton, RC District 26	Los Angeles		1	1	1						1	1			5
Williams, Diane		Rancho Cucamonga, SBCTA	San Bernardino		1	1	1						1	1			5
Wilson, Edward H.J.		Signal Hill, GCCOG	Los Angeles		1	1	1						1	1			5
Wright, Bonnie		Hemet, WRCOG	Riverside		1	0	0						0				1
VACANT		BIASC	Orange		0	0	0						0				0

Attachment: EEC Meeting Minutes - Oct 2018 (Minutes of the EEC Meeting, October 4, 2018)



Southern California Association of Governments
900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017
November 1, 2018

To: Energy & Environment Committee (EEC)
Transportation Committee (TC)
Transportation Committee (TC)
From: Michael Gainor, Senior Regional Planner, Compliance &
Performance Monitoring, (213) 236-1822, Gainor@scag.ca.gov
Subject: Draft 2019 Local Profiles Data Update

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

RECOMMENDED ACTION FOR CEHD:

For Information Only - No Action Required

RECOMMENDED ACTION FOR EEC AND TC:

Receive and File

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 3: Be the foremost data information hub for the region.

EXECUTIVE SUMMARY:

Since 2009, SCAG has prepared and updated the Local Profiles reports every two years as a service to our member jurisdictions. The reports provide current and historical demographic, socio-economic, housing, transportation, public health, and education data compiled from a variety of sources. The 2019 Local Profiles reports, to be released at the SCAG General Assembly in May 2019, generally focus on changes that have occurred since 2000. The information is presented to help identify current trends that provide a useful resource to local governments with activities and research supportive of community planning, economic development, grant writing, and public outreach efforts. The Local Profiles are also used as a resource for businesses evaluating expansion or relocation options, academic research, and to members of the public who seek to learn more about their communities.

BACKGROUND:

The Local Profiles were first released at the SCAG Regional Conference and General Assembly in May 2009, and have been updated every two years since. The Local Profiles provide a quick, but comprehensive, resource for local data and analytical support. As part of the biennial update, the new 2019 Local Profiles reports, scheduled for release at the SCAG General Assembly in May 2019, will include updated information and data related to local and regional demographic trends, housing, employment, income, education and public health. The data included in the Local Profiles reports is compiled through a wide variety sources and refined through extensive input from our member jurisdictions.

The Local Profiles reports have served as information and communication resources for elected officials, businesses, and residents in our local communities. Local government staff have used the reports to respond to a wide variety of public information inquiries regarding growth and change occurring within their jurisdictions. The Local Profiles are also frequently used by local jurisdictions in support of community planning, public outreach, local visioning initiatives, economic development, grant applications, and marketing and promotional materials. In addition, the biennially produced reports provide a useful tool in support of regional and local performance monitoring. Some examples of how the reports have been used include the provision of locally specific data to support residential and commercial development decision-making by private development firms; as a community information resource for local jurisdictions in support of General Plan updates; as an appendix to local strategic plans; and as a compendium of relevant local data to support various grant applications by local jurisdictions throughout the SCAG region.

With each edition of the Local Profiles, the selection of specific data and topics to be presented in the reports evolves to some extent to ensure consistency with the overall goal of providing a highly relevant product that reflects the current priorities in the SCAG region in a concise, easy to read format. For the 2019 Local Profiles several data enhancements are being introduced in the reports including a stronger focus on sustainable transportation and disadvantaged communities.

Attachment 1 of this staff report features the set of data items continuing from the 2017 Local Profiles reports to be included in the 2019 edition.

Attachment 2 of this report provides the set of proposed new data items to be included in the 2019 Local Profiles reports.

The 2017 Local Profiles are posted on the SCAG website:
www.scag.ca.gov/resources/profiles.htm

FISCAL IMPACT:

Work associated with this item is included in the Fiscal Year 2018-2019 Overall Work Program (WBS Number 080.0153.04: Performance Assessment & Monitoring).

ATTACHMENT(S):

1. Attach 1_2019 Local Profiles_Continuing Data Items
2. Attach 2_2019 Local Profiles_Proposed New Data Items
3. Attach 3_2019 Local Profiles_Presentation

Attachment 1: 2019 Local Profiles: Data Items Continuing from 2017

Category	Data Type	Data Source
Population	Total Population: 2017 & 2018	California Department of Finance
	Population: % Hispanic: 2018	US Census, Nielsen Co
	Population: % Non-Hispanic White: 2018	US Census, Nielsen Co
	Population: % Non-Hispanic Asian: 2018	US Census, Nielsen Co
	Population: % Non-Hispanic Black: 2018	US Census, Nielsen Co
	Population: % Non-Hispanic American Indian: 2018	US Census, Nielsen Co
	Population: % All Other Non-Hispanic: 2018	US Census, Nielsen Co
	Population by Age: 2017 & 2018	US Census, Nielsen Co
	Median Age: 2018	US Census, Nielsen Co
	Population Density: 2018	SCAG
Households	Number of Households: 2017 & 2018	California Department of Finance
	Average Household Size: 2017 & 2018	California Department of Finance
	Share of Households by Household Size: 2018	US Census, Nielsen Co
	Median Household Income: 2018	US Census, Nielsen Co
	Share of Households by Household Income: 2018	US Census, Nielsen Co
Housing	Homeownership Rate: 2018	US Census, Nielsen Co
	Median Existing Home Sales Price: 2017 & 2018	Dataquick (CoreLogic)
	Number of Foreclosures	Dataquick (CoreLogic)
	Share of Housing Stock by Decade Built	US Census, Nielsen Co
	Number of Housing Units: 2017 & 2018	California Department of Finance
	Number of Housing Units by Housing Type: 2018	California Department of Finance
	Total Housing Building Permits Issued: 2017 & 2018	Construction Industry Research Board
	Single-Family Housing Building Permits Issued: 2017 & 2018	Construction Industry Research Board
	Multi-Family Housing Building Permits Issued: 2017 & 2018	Construction Industry Research Board
Housing Cost Share of Household Income: Homeowners	American Community Survey (ACS)	
Housing Cost Share of Household Income: Renters	American Community Survey (ACS)	
Transportation	Transportation Mode Share: 2018	US Census, Nielsen Co
	Average Travel Time to Work: 2018	US Census, Nielsen Co
	Top 10 Commuter Work Destination Cities: Table	LEHD O/D Employment Statistics
	Top 10 Commuter Work Destination Cities: Map	SCAG
	Vehicles per Household: 2000, 2010, 2018	American Community Survey (ACS)
	Travel Time to Work Distribution (by range of minutes): 2000-2018	US Census, Nielsen Co
Active Transportation	Miles of Bicycle Lanes by Class (by county): 2016	County Transportation Commissions
Employment	Total Number of Jobs: 2016 & 2017	California Employment Development Dept
	Number of Jobs by Sector: 2017	California Employment Development Dept
	Number of Manufacturing Jobs: 2016 & 2017	California Employment Development Dept
	Number of Construction Jobs: 2016 & 2017	California Employment Development Dept
	Number of Retail Trade Jobs: 2016 & 2017	California Employment Development Dept
	Number of Professional & Management Jobs: 2016 & 2017	California Employment Development Dept
	Average Annual Salary: 2017	California Employment Development Dept
	Average Annual Salary by Sector: 2017	California Employment Development Dept
Public Health	Obesity Rate	California Health Interview Survey
	Physical Activity Rate (Walking)	California Health Interview Survey
Retail Sales	Real Retail Sales: 2016 & 2017	California Board of Equalization
Education	% Completed High School or Higher: 2018	US Census, Nielsen Co
	% Completed Bachelor Degree or Higher: 2018	US Census, Nielsen Co
	K-12 Public School Enrollment: 2017 & 2018	California Department of Education
	K-6 Public School Student Enrollment: 2017 & 2018	California Department of Education
	Grades 7-9 Public School Student Enrollment: 2017 & 2018	California Department of Education
	Grades 10-12 Public School Student Enrollment: 2017 & 2018	California Department of Education

Attachment: Attach 1_2019 Local Profiles_Continuing Data Items (Draft 2019 Local Profiles Data Update)

Attachment 2: 2019 Local Profiles: Potential New Data Items

Data Item	Local Profiles Section	Definition	Data Required	Data Source
Travel distance distribution	Transportation	Commute distance travelled (by range)	Commute travel distance data at jurisdictional level.	U.S. Census American Community Survey (ACS)
Average travel distance	Transportation	Average commute distance travelled	Commute travel distance data at jurisdictional level.	U.S. Census American Community Survey (ACS)
English language fluency	Population	Share of population with limited English language fluency	Share of population 5+ years of age with limited English language fluency	U.S. Census American Community Survey (ACS)

2019 Local Profiles Data Update

Community, Economic, & Human Development Committee

November 1, 2018

Mike Gainor
Senior Regional Planner



Local Profiles Program Overview

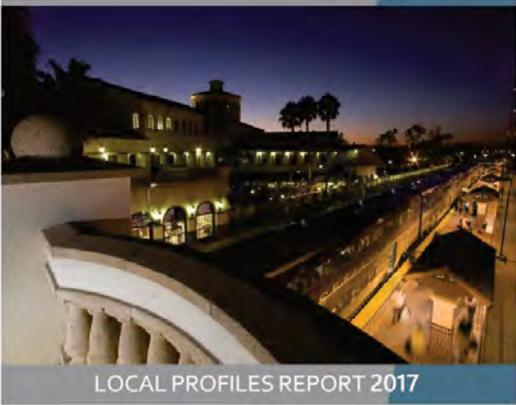


- Prepared biennially for each member city, county, & unincorporated area in the SCAG region
- Contains current demographic, socio-economic, housing, transportation, & education data within historical context
- Helps identify current & evolving demographic trends in local jurisdictions
- Provided as a service to our member jurisdictions
- The 2017 Local Profiles are posted on the SCAG website: www.scag.ca.gov/resources/profiles.htm

2017 Local Profiles



 **Profile of the City of Santa Ana**
Southern California Association of Governments' (SCAG) Regional Council includes 69 districts which represent 191 cities in the SCAG region
SCAG Regional Council District 16 includes only Santa Ana
Represented by: Hon. Michele Martinez

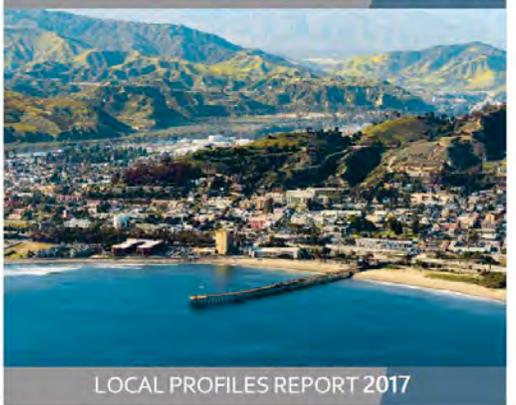


LOCAL PROFILES REPORT 2017

This profile report was prepared by the Southern California Association of Governments and shared with the City of Santa Ana. SCAG provides local governments with a variety of benefits and services including, for example, data and information, GIS training, planning and technical assistance, and sustainability planning grants.

May 2017
Southern California Association of Governments

 **Profile of the City of San Buenaventura**
Southern California Association of Governments' (SCAG) Regional Council includes 69 districts which represent 191 cities in the SCAG region
SCAG Regional Council District 47 includes Fillmore, Ojai, San Buenaventura, and Santa Paula
Represented by: Hon. John Procter



LOCAL PROFILES REPORT 2017

This profile report was prepared by the Southern California Association of Governments and shared with City of San Buenaventura. SCAG provides local governments with a variety of benefits and services including, for example, data and information, GIS training, planning and technical assistance, and sustainability planning grants.

May 2017
Southern California Association of Governments

Attachment: Attach 3_2019 Local Profiles_Presentation (Draft 2019 Local Profiles Data Update)

2017 Local Profiles



2017 Local Profiles Data Categories

- **Population:** Total, by Age, by Ethnicity
- **Households:** Number, Size, Income, Owner/Renter Status
- **Housing:** Production by Type, Permits Issued, Median Sales Price, Housing Stock Age, Foreclosures
- **Transportation:** Mode Choice, Travel Time
- **Employment:** Top Employment Destinations, Total Number of Jobs, Jobs by Sector, Average Salary
- **Retail Sales:** Total Sales, Sales per Person
- **Education:** Enrollment by Grade Level, Educational Attainment

2017 Local Profiles



2017 New Data Categories

- **Active Transportation:** Bike Lane Mileage by Class (by County)
- **Public Health:** Rates for Obesity, Physical Activity, Asthma, Diabetes, & Heart Disease

2017 New Data Items

- Population Density
- Housing Cost Share (for Renters & Homeowners)
- Travel Time to Work (by Range of Minutes)
- Household Vehicle Ownership (Number of Vehicles per Household)

2019 Local Profiles



2019 Proposed New Data Items

- Travel Distance Distribution (Transportation Section)
- Average Travel Distance (Transportation Section)
- English Language Fluency (Population Section)

2019 Local Profiles



2019 Proposed New Data Items

Travel Distance Distribution:

- Commute travel distance provided by range of minutes by local jurisdiction
- Data obtained through U.S. Census American Community Survey (ACS)
- Five travel distance data ranges displayed in pie chart format

Attachment: Attach 3_2019 Local Profiles_Presentation (Draft 2019 Local Profiles Data Update)

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2019 Local Profiles



2019 Proposed New Data Items

Average Travel Distance:

- Average commute distance travelled by local jurisdiction
- Data obtained through U.S. Census American Community Survey (ACS)
- Average travel distance data for years 2000, 2010, & 2018 displayed in bar chart format

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2019 Local Profiles



2019 Proposed New Data Items

English Language Fluency:

- Share of population (age 5+) that speak English at a 'Less than Well' level of fluency
- Data obtained through U.S. Census American Community Survey (ACS) 5-year estimates
- English fluency data for the years 2010, 2013, & 2016 displayed in bar chart format

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2019 Local Profiles

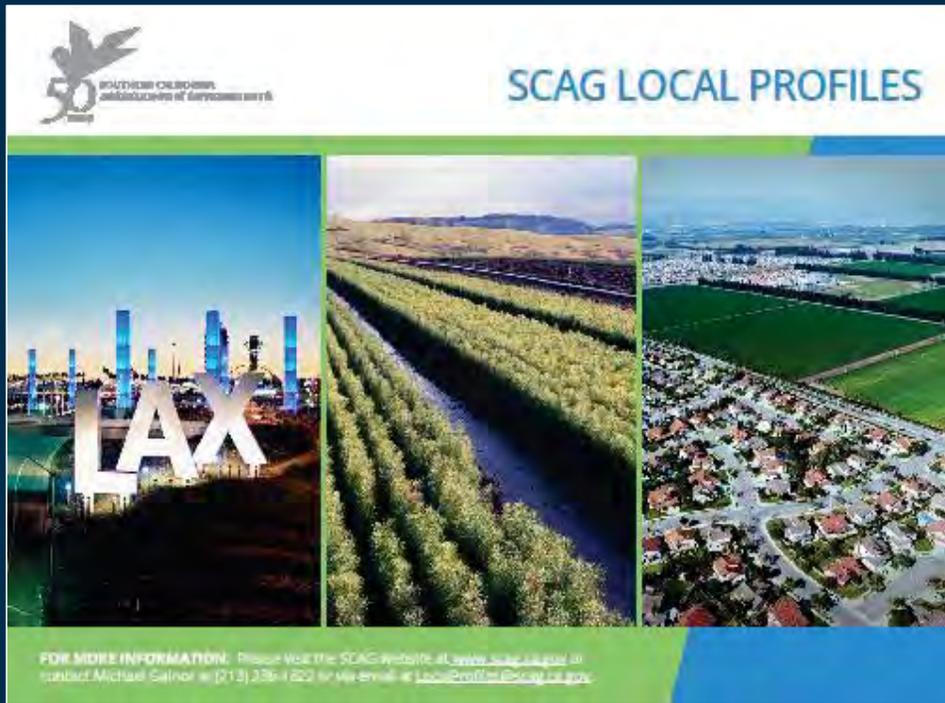


Next Steps:

- Data acquisition, processing, & analysis (through January, 2019)
- Draft reports provided for local jurisdictional review & comment (mid-February, 2019)
- Draft report jurisdiction comment period (February-March, 2019)
- Revise draft reports to incorporate jurisdictional comments & SCAG QA process (March-April, 2019)
- Production of final reports (late April, 2019)
- Release of final 2019 Local Profiles reports & post on SCAG website (May, 2019)

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2019 Local Profiles



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Thank you!

Mike Gainor
(213) 236-1822
gainor@scag.ca.gov



Attachment: Attach 3_2019 Local Profiles_Presentation (Draft 2019 Local Profiles Data Update)



Southern California Association of Governments
900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017
November 1, 2018

To: Community
Economic & Human Development Committee (CEHD)
Energy & Environment Committee (EEC)
Transportation Committee (TC)
From: Roland Ok, Senior Regional Planner, Compliance &
Performance Monitoring, (213) 236-1819, ok@scag.ca.gov
Subject: Status Update on the 2020 RTP/SCS PEIR

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

RECOMMENDED ACTION:

Receive and File

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians.

EXECUTIVE SUMMARY:

The purpose of this staff report is to inform the EEC, CEHD, TC and RC that staff has initiated environmental documentation for the 2020 Regional Transportation Plan/Sustainable Communities Strategy (Connect SoCal or Plan). A Program Environmental Impact Report (PEIR) for the Plan will be prepared in accordance with the California Environmental Quality Act (CEQA). The PEIR will be a program-level document that will analyze the cumulative effects of the proposed actions, as well as transportation improvements and land use developments discussed in the Plan.

BACKGROUND:

Connect SoCal is a long-term plan which emphasizes the development and preservation of the region’s transportation system. For a transportation project to become eligible for federal and state funding, it must be included in the financially-constrained portion of the RTP. In addition, per state law, the Plan must include a Sustainable Communities Strategy (SCS) that demonstrates compliance with California Air Resources Board greenhouse gas (GHG) emission reduction targets from cars and light duty trucks.

CEQA, Pub. Res. Code § 21000 et seq., and its implementing regulations, CEQA Guidelines, codified at 14 C.C.R. § 15000 et seq., require SCAG as the Lead Agency to prepare an Environmental Impact Report for the Plan. The Plan necessitates preparation of a PEIR, which is a “first-tier” CEQA document designed to consider “broad policy alternatives and program-wide mitigation measures” (CEQA Guidelines §15168).

The PEIR will serve as a programmatic document that provides a region-wide assessment of potential significant environmental effects of the Plan. The PEIR will provide an opportunity to inform decision-makers and the public about these effects. The PEIR will evaluate region-wide,

potential significant environmental effects, including direct and indirect effects, growth-inducing impacts, and cumulative impacts of the Plan at a programmatic level. The PEIR will consider a range of reasonable alternatives to the Plan, including the no-project alternative and alternatives capable of achieving most of the basic objectives of the Plan and that may be capable of avoiding or substantially lessening any of the significant environmental effects the Plan. The PEIR will also evaluate proposed feasible mitigation measures capable of avoiding or reducing the significant effects of the Plan.

STATUS OF THE 2020 RTP/SCS PEIR:

On August 20, 2018, SCAG's Executive Administration Committee (EAC), approved the Consultant's contract (18-026-C01) to assist SCAG with the preparation of a legally defensible PEIR. The Consultant will assist SCAG in completing the PEIR and provide services to ensure compliance with federal and state planning and environmental laws in the PEIR.

On September 6, 2018, SCAG staff informed the Energy and Environment Committee (EEC) that the CEQA documentation process had been initiated. After the September 6 meeting, a formal kick-off meeting occurred with SCAG and the Consultant on September 27, 2018. The kick-off meeting focused on the scope of work and strategies to complete a legally defensible PEIR.

NEXT STEPS:

While SCAG initially planned to release the Notice of Preparation (NOP) prior to the end of 2018, SCAG and the Consultant decided that January 2019 would be the optimal release date for the NOP as it would allow for a robust description of the Connect SoCal Plan, its proposed goals, policies, scenarios and alternatives. The NOP will formally kick-off the PEIR process and will undergo a 30-day public review period which will allow for public comments. Following the release of the NOP and public review phase, SCAG will host two (2) scoping meetings. The scoping meetings will provide a presentation on the Plan's process and vision and allow for further comments on the Plan and the PEIR. Comments received will be incorporated into the PEIR and will potentially serve as a guidance tool to assist with the environmental analysis. Pursuant to AB 52, SCAG will request for formal consultation with Native American Tribes within 14 days after the NOP release date. After the request, SCAG will work towards hosting tribal consultation meetings to fulfill AB 52 requirements.

FISCAL IMPACT:

Work associated with this item is included in the current Fiscal Year 2018/19 Overall Work Program (020.0161.04: Regulatory Compliance).



Southern California Association of Governments
900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017
November 1, 2018

To: Executive/Administration Committee (EAC)
Community
Economic & Human Development Committee (CEHD)
Energy & Environment Committee (EEC)
Transportation Committee (TC)
Regional Council (RC)

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

From: Kome Ajise, Director of Planning, Planning Division, 213-236-1835, Ajise@scag.ca.gov

Subject: Future Communities Pilot Program Guidelines

RECOMMENDED ACTION FOR EAC:

Recommend that Regional Council approve the Future Communities Pilot Program Guidelines.

RECOMMENDED ACTION FOR TC, EEC, CEHD:

Receive and File

RECOMMENDED ACTION FOR RC:

Approve the Future Communities Pilot Program Guidelines.

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians. 2: Advance Southern California’s policy interests and planning priorities through regional, statewide, and national engagement and advocacy. 3: Be the foremost data information hub for the region. 4: Provide innovative information and value-added services to enhance member agencies’ planning and operations and promote regional collaboration. 7: Secure funding to support agency priorities to effectively and efficiently deliver work products.

EXECUTIVE SUMMARY:

SCAG, in partnership with the Mobile Source Air Pollution Reduction Committee of the South Coast Air Quality Management District (MSRC), created the Future Communities Pilot Program (FCPP) to support city and county agencies in implementing innovative pilot projects that reduce emissions-producing vehicle miles traveled (VMT) from local travel and municipal operations. The FCPP will award approximately \$2.7 million to cities and counties within the South Coast Air Basin. SCAG, with support and input of consultants, technical experts and stakeholders, has prepared funding guidelines for the FCPP that outline the program goals, funding requirements, scoring criteria and application process. Following the review and adoption of the FCPP Guidelines by the Regional Council, SCAG will issue the FCPP Call for Proposals and conduct outreach to solicit project proposals. Staff anticipates returning to the Regional Council in February with funding recommendations for 5 to 10 pilot projects.

BACKGROUND:

SCAG hosted an Open Data/Big Data – Smart and Connected SCAG Region Committee (Committee) from June to November of 2017 to assess the changing landscape of technology in regional planning and to provide guidance for local governments. The Committee’s key achievement was the development and adoption by the Regional Council of a Future Communities Framework to help the region with smart technology implementation.

In addition to the policy framework, the Committee reviewed and endorsed the Future Communities Initiative, a short-term work program including the following work elements: Regional Data Platform, a Policy Lab/Tool Builder, a Data Science Fellowship, and an annual forum and a new grant program called the Future Communities Pilot Program (FCPP). Each initiative harnesses the power of new technologies, big data, open data as well as enhanced analytics to promote innovation in regional and local planning and reduce transportation demand.

The FCPP is a project to support city and county agencies in implementing innovative pilot projects that reduce emissions-producing vehicle miles traveled (VMT) from local travel and municipal operations through the use of new technologies and enhanced data analytics. In July 2018, SCAG partnered with the MSRC to implement the FCPP in four phases: 1) Promising Practice Research 2) Call for Projects 3) Implementation and 4) Evaluation and Final Report.

In July 2018, SCAG hired Nelson Nygard to conduct the Promising Practice Research phase of the program. Research included the following tasks:

- Technical Advisory Committee (TAC)
- Expert Interviews
- Promising Practice Identification
- Case Studies
- Readiness Survey

Building on the Promising Practice Research, SCAG staff and the consultant team developed program guidelines and an application for a Future Communities Pilot Program Call for Projects.

The FCPP project team shared key components of the program guidelines with and incorporated feedback from a variety of stakeholders, including the Energy and Environment Committee, MSRC, Caltrans, and the TAC. The guidelines were reviewed for coordination with the 2016 RTP/SCS and upcoming Connect SoCal, consistency with funding source goals and requirements, and for support of innovative advancements in Transportation Demand Management (TDM) initiatives.

Program Goals

The goals ensure that the projects selected will meet statutory requirements for the funding sources used for the program as well as the direction of the Committee and the Future Communities Framework.

The goals of the FCPP are:

-
- Apply new technologies and data analytics to test innovative approaches for reducing emissions-producing VMT from local travel and municipal operations.
 - Explore opportunities for data analytics and technology projects in a variety of contexts/communities, including projects that support and engage disadvantaged communities.
 - Improve efficiency and reduce the costs of city and county municipal services.
 - Identify and quantify relative impacts of a variety of technology-based VMT reduction strategies.
 - Promote replicable Pilot Projects that support new policy development, improve processes for government service provision, and pilot innovative engagement practices with private sector mobility providers.

Eligibility & Funding

SCAG has a total of \$2.7 million to award with a requirement of a 25% local match from each applicant. Due to MSRC funding restrictions, projects must be located within the South Coast Air District and will be limited to cities and county agencies from Los Angeles, Riverside, Orange, and San Bernardino counties. The maximum project size is \$500,000. Funding awards will be made on a competitive basis and in accordance with geographic equity requirements set by the MSRC.

Project Examples

A wide range of data analytics and technology projects are eligible for FCPP funding within the framework of the program goals. The program guidelines, supplemental case studies, and promising project research include eligible project examples. SCAG's research primarily focused on the following two project areas but, due to the desire to fund innovative projects, applications are not limited to these specific project areas.

- Projects that reduce VMT generated by municipal operations
 - Use of remote/teleconference services
 - Use of fleet telematics to track vehicle use
 - Use of route optimization to improve efficiencies
 - Use of Internet of Things (IoT) or asset management applications to improve fleet deployment efficiency
- Projects that reduce VMT by using technology to maximize benefits of new mobility services
 - Curbside management projects
 - Smart parking projects
 - Mobility as a Service projects
 - Mobile apps that implement direct incentives for switching to non-auto modes that reduce VMT

Scoring Criteria

FCPP applications will be scored according to the criteria outlined below. The top-scoring applications will be short-listed. Short-listed applicants will be invited for a one-on-one presentation and discussion with SCAG staff in early January 2019.



Scoring Criteria - Application	Point Value
Topic 1: Project Rationale	15 pts
Topic 2: Project Design	60 pts
Topic 3: Readiness and Sustainability	25 pts

Scoring Criteria - Interview	Point Value
Topic 1: Presentation	15 pts
Topic 2: Interview	15 pts

Schedule

The schedule for the Call for Projects and the Pilot Program Period moves quickly. The program guidelines outlines all project milestones including the following important dates.

Milestone	Date
Call for Applications Opens	November 1, 2018
Application Workshop #1	November 13, 2018
Application Workshop #2	December 4, 2018
Call for Project Application Deadline	December 13, 2018
One-on-One Meetings with Potential Awardees	January 7-11, 2019
SCAG Regional Council Approval of 2018 FCPP Awards	February 7, 2019
Pilot Launch	Spring 2019
Pilot Programs Conclude	December 2020
Pilot Program Final Reporting	December 2020

FISCAL IMPACT:

The Future Communities Pilot Program is funded by \$2,000,000 in funding from the Mobile Source Air Pollution Reduction Committee (MSRC) and \$1,000,000 in SB1 Funding in OWP Task Number 280.4824.01. An additional \$1,000,000 will be provided by awardees in the form of local match.

ATTACHMENT(S):

1. DRAFT Final_SCAG FCPP_Call for Projects Guidelines
2. Future Communities

FUTURE COMMUNITIES PILOT PROGRAM

PROGRAM GUIDELINES

BACKGROUND

The Future Communities Pilot Program (FCPP) is a new grant program designed to provide local cities and counties with the resources needed to reduce emissions-producing vehicle miles traveled (VMT) using new technology and data solutions. The FCPP is a partnership between the [Southern California Association of Governments](#) (SCAG) and the [Mobile Source Air Pollution Reduction Committee \(MSRC\)](#) to improve air quality and implement SCAG’s [2016 Regional Transportation Plan/Sustainable Communities Strategy](#) (RTP/SCS). VMT and emission reduction goals support the [State’s Climate Change Scoping Plan](#), which outlines strategies for achieving California’s 2030 greenhouse gas target. The FCPP is also a major component of [SCAG’s Future Communities Initiative](#), which is a three-year work program for implementing the policy direction from SCAG’s [Open Data/Big Data](#), Smart and Connected SCAG Region Committee.

FCPP funding is available to cities and municipalities within the South Coast Air Quality Management District (SCAQMD) portions of Los Angeles, Orange, Riverside and San Bernardino counties, and is funded through a combination of MSRC funding and Senate Bill 1 – The Road Maintenance and Rehabilitation Program (SB1). Proposed projects must consider the requirements outlined below to ensure compliance with the requirements of both funding sources.

GOALS

The FCPP has the following goals, which will shape the pilot selection process described in this document:

- Apply new technologies and data analytics to test innovative approaches for reducing emissions-producing VMT from local travel and municipal operations.
- Explore opportunities for data analytics and technology projects in a variety of contexts/communities, including projects that support and engage disadvantaged communities.
- Improve efficiency and reduce the costs of city and county municipal services.
- Identify and quantify relative impacts of a variety of technology-based VMT reduction strategies.
- Promote replicable Pilot Projects that support new policy development, improve processes for government service provision, and pilot innovative engagement practices with private sector mobility providers.

ELIGIBLE PROJECT TYPES AND PROMISING PRACTICES

Eligible projects must be implemented and demonstrate measurable VMT reduction during the project period. A wide range of data analytics and technology projects are eligible for FCPP funding within the framework of the program goals. To support applicants and provide examples

Future Communities Pilot Project – Call For Projects Guidelines
SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS

of possible projects, SCAG has conducted research into promising practices for the reduction of municipal VMT, as well as the role of technology and data analytics for the identification and deployment of strategies/tactics to decrease the production of VMT and greenhouse gases.

SCAG has developed in depth case studies to provide project applicants of potential project concepts. **While SCAG’s case studies focus on two main themes for VMT reduction (VMT reduction from municipal operations and technology solutions for working with new mobility services)**, applicants are encouraged to submit a wide range of accessibility and mobility related proposals that meet the goals of the program. In addition to the case studies, SCAG developed a list of other promising practices that could support the goals of the program. Information regarding the case studies and promising practices can be found on [SCAG’s website](#).

The first theme that SCAG studied and developed case studies for includes projects that reduce VMT generated by municipal operations. Existing municipal services can be responsible for the production of significant VMT and emissions. Pilot Projects in this arena would reduce the production of VMT through the implementation of innovative data collection and analytic techniques to improve municipal operating policies, practices, and guidelines. These could include use of remote/teleconference services, use of fleet telematics, use of route optimization, use of Internet of Things (IoT), or asset management applications to improve fleet deployment efficiency.

SCAG’s research also considered projects that reduce VMT by using technology to maximize benefits of new mobility services – **or to reduce “new” VMT sources**. New technologies have spawned several new forms of mobility services, adding to the demands placed on the existing transportation network and increasing competition for operating space and resources. Pilot Projects in this category would develop innovative solutions for managing the operation of these new services within the local jurisdiction. These could include curbside management projects, smart parking projects, Mobility as a Service (MaaS) projects, or mobile apps that implement direct incentives for switching to non-auto modes that reduce VMT.

As mentioned above, applicants are not limited to the project types included in the case studies or the promising practices spreadsheet. Rather, those examples are provided to help applicants explore potential project ideas and identify implementation considerations. Given the limitations on timeline for deployment and completion of this Call for Projects, applications should be focused, clear, and action-oriented/plug and play ready. Entities considering applying to the FCPP should ask themselves the following questions when determining which type of Pilot Project to submit:

- Does it use data or technology in innovate ways?
- Does it clearly identify how it will aim to reduce VMT?
- Is it feasible to implement/operationalize and measure VMT reduction within the short project period (~18 months)?
- Has the jurisdiction identified matching resources?

ELIGIBLE APPLICANTS

Given the restrictions of funding sources, only city and county municipal applicants from within the South Coast Air Quality Management District (SCAQMD) portions of San Bernardino, Riverside, Los Angeles, and Orange Counties are eligible to apply for FCPP funding.

SCAG will consider sub-applicants within the following contexts:

Future Communities Pilot Project – Call For Projects Guidelines
SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS

- To encourage participation by cities with a variety of resource levels, cities may apply in partnership with sub-regional or regional agencies or multi-jurisdictional partners (e.g. councils of government), if such a partnership will improve the likelihood of successful implementation. Given that the sustainability of the projects is important, applicants in these situations will need to describe how they would sustain the knowledge of processes and maintenance of products once the project is completed and the partnering agency is no longer available to provide technical assistance.
- Departments outside of the immediate confines of a municipal structure, such as school districts, may be included as sub-applicants in partnership with a city- or county-lead agency.
- Sub-regional and regional entities may be included as sub-applicants to provide guidance on project design and implementation, and to ensure regional or sub-regional consistency with similar efforts and data standards. However, SCAG does not desire to enter into complicated contracting structures due to the limited time for project implementation. It is recommended that such participation be considered for meeting the local matching requirements.
- Collaboration between multiple partners is allowed; however, the tight timeline for project implementation and completion (~18 months) requires rapid deployment. Partnerships that may involve lengthy new collaborative experiences may not be competitive.
- Due to the inclusion of SB1 funding, at the time of award notice an applicant, sub-applicant and/or jurisdiction will be required to have a housing element in substantial compliance with the State Housing Element Law, and must have submitted updated Housing Element Annual Progress Reports.

Because these are implementation-oriented projects tied to municipal VMT reduction goals, it is important that the implementer of the project is closely involved and represented in the application package. Having the available resources to successfully implement the project is not only an important factor for project selection, but will also be important for project success given the limited time available to complete the projects.

Commensurate with the limited timeline for project delivery and the technical capacity required to effectively implement and execute Pilot Projects, significant effort will be required in the staffing and mobilization of resources for successful deployment. Therefore, SCAG expects that consultants or other third party professional service providers may be critical to successfully implementing projects.

FUNDING SOURCES AND MATCH REQUIREMENTS

The funding available for these projects totals \$2.7 million and is a combination of both MSRC funding and SB1 funding. Funding awards and mix will depend on the number and type of applications received and regional equity funding targets. Below are important factors about the funding sources that applicants should consider:

- Maximum project size for applications is \$500,000.
- Funding is only available to city and county municipal applicants within the [South Coast Air Quality Management District \(SCAQMD\)](#) portion of the counties of Los Angeles, Orange, Riverside and San Bernardino.

Future Communities Pilot Project – Call For Projects Guidelines
SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS

- The grant program requires a 25% match from applicants.
 - In-kind matches, cash matches, and leveraged resources from other supporting projects (e.g. grants, parallel development efforts, etc.) are eligible as co-funding.
 - Agencies using match other than cash will be required to document their staff hours and/or other expenses on a quarterly basis.
 - If a cash match is provided, the Agency should identify the source of funding (i.e. General Fund, AB 2766, Prop A, etc.) and include it in the project budget.
 - In kind participation of agency staff participation can count towards funding match contributions.
 - The match should, if possible, be expended concurrently in proportion to the grant funding. All matching funds must be spent by the completion of the project.
- In accordance with SB funding requirements, SB-1 funds may only be used for planning activities; not program implementation. Therefore, applicants should clearly identify and distinguish planning-related tasks from those aligned with implementation of the Pilot Projects in the proposed project scopes of work (SOW) and budgets.

SCAG does not intend to directly fund **applicants’ internal labor costs** through this grant program. Due to the complexity of projects and rapid mobilization requirements, SCAG expects to hire professional service providers on behalf of successful applicants to implement the projects. While the proposed projects are likely to rely heavily on consultant staff, their approach to implementation and operation should give thought toward developing a project that is sustainable in the post-pilot phase. Applicants that intend on using their own internal labor force to complete the majority of the work must justify the need to do so in their applications and show that their staff will have the capacity and skills to complete the project within the timeframe of the project.

APPLICATION PROCESS

Applications are due by December 13, 2018 by 5:00 p.m. as outlined in the submittal section of these guidelines. All project types will follow a single application process, which reflects the goals and requirements described in these guidelines. The application is posted on the [project website](#).

Multiple applications from an agency are possible. However, due to the limited amount of funding available through the Call for Projects, applicants should be judicious in only submitting their best projects that meet the goals of the program and can be completed within the timeline set out in these guidelines.

Project sponsors do not need a board resolution in order to apply, but they will be required to agree to submit a supporting resolution from the elected body or a letter of intent in support of the project from the appropriate executive officer prior to project kickoff.

Once the Call for Projects opens, SCAG will hold two application workshops to help guide potential applicants through the process as they finalize submissions. **SCAG also has an “open door” policy** during this application period, and is able to answer technical questions about the application content or process at any point during the call for projects.

SCORING RUBRIC & CRITERIA

The scoring criteria for all projects funded through the FCPP will be the same. Question topics and their relationships to the scoring criteria are outlined below. Exact questions and further clarification regarding how points are awarded are provided in the call for projects application packet.

Table 1: FCPP Application Scoring Rubric

Scoring Criteria	Point Value
Topic 1: Project Rationale	15 pts
Source of VMT Production	5
Baseline Estimation of Current VMT Production	5
VMT Reduction Approach and Methodology	5
Topic 2: Project Design	60 pts
Goals, Objectives, and Outcomes	5
Innovation, Technology and Data Analytics	10
Project Implementation and Management	20
VMT Reduction Estimate and Cost Reduction Potential	15
Proposed Schedule and Budget	5
Performance Reporting	5
Topic 3: Readiness and Sustainability	25
Supportive Policies and Commitments	5
Expansion and Replicability	5
Match and Resource Leveraging	5
Disadvantaged Community Considerations	10

FCPP applications will be scored according to the rubric above. The top-scoring applications will be short-listed. Short-listed applicants will be invited for a one-on-one presentation and interview between January 7 and January 11, 2019 at **SCAG’s offices**. All short-listed applicants will be scored as follows:

Table 2: Individual Interview and Presentation Scoring Rubric

Scoring Criteria	Point Value
Presentation	15 pts
Management Approach and Technical Capacity	
Project Readiness and Sustainability	

Future Communities Pilot Project – Call For Projects Guidelines
SOUTHERN CALIFORNIA ASSOCIATION OF GOVERNMENTS

Scoring Criteria	Point Value
Value Added Opportunities/Benefits	
Interview	15 pts
Project Specific Interview Questions	

EVALUATION PROCESS

SCAG will coordinate an internal review process for applications received. Review will include multidisciplinary teams from multiple SCAG planning groups. Each application will be scored by a minimum of three reviewers. Upon completion of the review process, SCAG will rank projects in accordance with the geographic representation and regional equity considerations required by each funding source to create a short-list of projects.

SCAG will then conduct one-on-one interviews with the short-listed applicants in each county to determine project readiness and availability of resources to successfully complete the projects. Applicants will be asked to provide a presentation on the project which will be followed by a standardized set of structured interview questions. Applicants should ensure that any critical personnel required for these meetings are available between January 7 and January 11, 2019.

Pending review of application details, SCAG reserves the right to request that potential grant recipients modify their proposed project scope of work to maximize the use of available funds. Final selection of grantee recipients will be based on the combined results of the technical application evaluation and interview. All one-on-one meetings will occur at SCAG’s main office building; however, in the spirit of reducing VMT, SCAG will coordinate videoconferencing with regional offices if necessary.

SCHEDULE

The Call for Projects and the Pilot Program Period will both move quickly. The following schedule outlines important dates:

Milestone	Date
SCAG Future Communities Pilot Project Call for Applications Opens	November 1, 2018
Application Workshop #1	November 13, 2018
Application Workshop #2	December 4, 2018
Call for Project Application Deadline	December 13, 2018
One-on-One Meetings with Potential Awardees	January 7-11, 2019
SCAG Regional Council Approval of 2018 FCPP Application Rankings	February 7, 2019
Pilot Launch	Spring 2019
Pilot Programs Conclude	December 2020
Pilot Program Final Reporting	December 2020

TIMELY USE OF FUNDS AND TIME EXTENSIONS

SCAG intends all selected projects to be completed in a timely manner and requires that applicants coordinate internal resources to ensure timely completion of the projects by December 31, 2020. A project initiation schedule and expectations regarding period of performance will be determined within three months of project award announcements and will be based on project complexity, funding source, and SCAG staff capacity.

Once the project schedule has been established, extensions will be considered on a case-by-case basis. Extensions and scope changes must be requested in letter format. All requests must include an explanation of the issues and actions the agency has taken to correct the issues. All extensions will be contingent on funding availability and the program requirements of the funding source assigned to the project when awarded. No extensions will be allowed beyond December 31, 2020.

SUBMITTAL INFORMATION

Applications are due, via electronic submittal, by **December 13, 2018 by 5:00 p.m.** using the instructions provided in the application. Required application components include:

- Cover letter
- Signatory page
- FCPP application form
- Scope of Work and Management Plan
- Project schedule and proposed budget (including local match contribution)

Applications should include all supporting documents in a single PDF file. Files should be labeled using the format below:

- City/Agency Name_Project Name.pdf
 - For example: SCAG_Future-Communities-Pilot-Program.pdf

CONTACT INFORMATION

Direct questions about the Future Communities Pilot Project application or process to:

Rye Baerg, Senior Regional Planner

(213) 236-1866

baerg@scag.ca.gov

or

Deanna Dupuy, Assistant Regional Planner

(213) 236-1884

dupuy@scag.ca.gov

Future Communities Pilot Program Guidelines

Regional Council

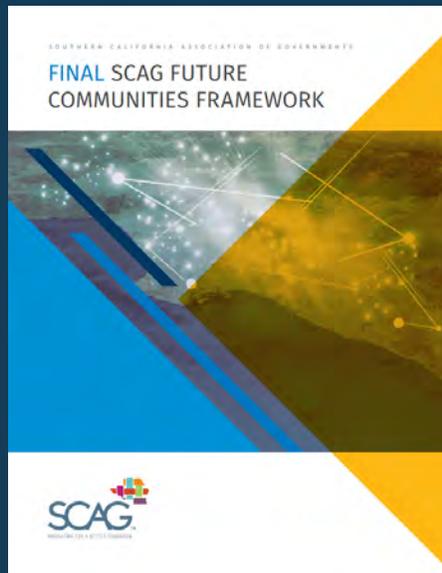
Rye Baerg

Senior Regional Planner, SCAG

November 1, 2018



Future Communities Framework



Attachment: Future Communities (Future Communities Pilot Program Guidelines)

Future Communities Pilot Projects

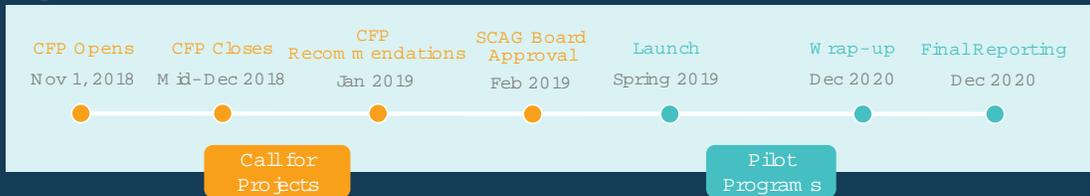


Overview

- Available Funding: \$2.7 M
- 25% local match requirement
- Maximum project request \$500,000
- Pilot Projects must be located in South Coast Air Basin
- Research and Best Practices inform Connect SoCal (2020 RTP/SCS) and serve as local resource



Key Dates



Research: Expert Interview Takeaways



Interviewed 10 Experts

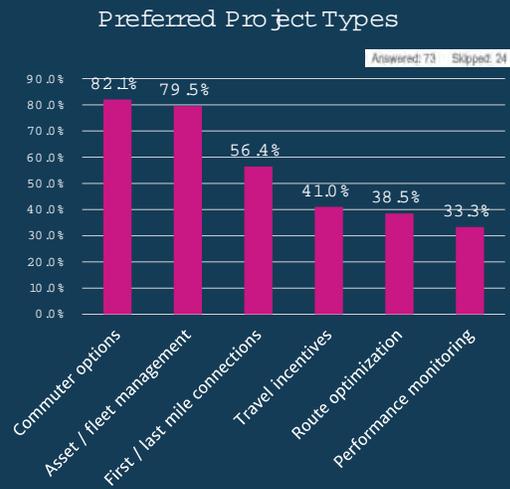
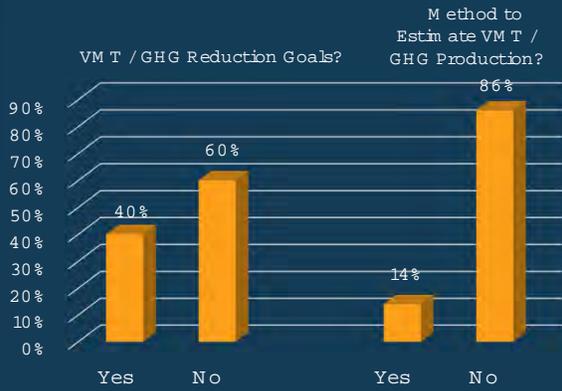
Reoccurring Themes

- Many identified quality data as a gap in VMT reduction
- Opportunities for policy frameworks
- Three big VMT reduction moves
 - Pricing
 - Parking
 - Land Use
- Opportunities in fleet management

Academic/Researcher/Sustainability Policy
Applied Data Management
Emerging Technology
Fleet/Freight/Delivery
Municipal Planning or Operations
Private Sector Partnerships or Products
Transportation Demand Management

Attachment: Future Communities (Future Communities Pilot Program Guidelines)

Research: Readiness Survey Takeaways



Search for New Ideas



Making better use of data and technology



Attachment: Future Communities (Future Communities Pilot Program Guidelines)

Search for New Ideas



Looking at all types of municipal operations

The screenshot shows a news article from the website 'GOVERNING THE STATES AND LOCALITIES'. The article is titled 'A Quiet Revolution in Trash Trucks' and is dated July 10, 2014, by Daniel C. Vock. The article's sub-headline reads: 'Garbage trucks get as little as 3 miles per gallon, making them prime targets in cities' efforts to trim costs and curb greenhouse gas pollution.' The image on the left shows a worker in a yellow safety suit loading a trash bin onto a white garbage truck. The image on the right shows a white garbage truck parked on a city street.

Search for New Ideas



Learning from different disciplines (e.g., economic incentives, behavioral science)

The poster is for a 'FINAL EVENT' titled 'MOBIWALLET Mobility and Transport Digital Wallet'. The event is scheduled for September 27th, 2016, from 10:00h to 16:00h at the Palacio de la Magdalena in Santander, Spain. The poster features a list of sponsors on the left, including Indra, Ayuntamiento de Santander, UC, TST, Santander, Intec, Gest, Aleph, Gest, Finance, Dunav, and H. The background of the poster shows a modern tram at a station at night. The MobiWallet logo is in the top right corner.

Attachment: Future Communities (Future Communities Pilot Program Guidelines)

Program Goals



- Apply new technologies and data analytics to reduce emissions-producing VMT from local travel and municipal operations
- Explore opportunities for projects in a variety of contexts/communities (with consideration for disadvantaged communities)
- Improve efficiency and reduce costs of county and municipal services
- Identify and quantify relative impacts of a variety of technology-based VMT reduction strategies
- Promote replicable Pilot Projects

Eligible Project Types—Examples



Analysis of Current Policy Contributions to VMT	Fleet Telematics	Internet of Things (IoT) Applications	Paratransit Service Optimization
Asset Management & Fleet Dispatch	Foundational Data/IT Infrastructure	Mobility as a Service (MaaS)	Remote Services
Curb-side Management	Incentives for Non-Auto Trips	New/Emerging VMT Sources	Route Optimization

Evaluation Criteria



Scoring Criteria - Application	Point Value
Topic 1: Project Rationale	15 pts
Topic 2: Project Design	60 pts
Topic 3: Readiness and Sustainability	25 pts

Scoring Criteria - Interview	Point Value
Topic 1: Presentation	15 pts
Topic 2: Interview	15 pts

Call for Projects Schedule



Milestone	Date
SCAG Future Communities Pilot Project Call for Applications Opens	November 1, 2018
Application Workshop # 1	November 13, 2018
Application Workshop # 2	December 4, 2018
Call for Project Application Deadline	December 13, 2018
One-on-One Meetings with Potential Awardees	January 7-11, 2019
SCAG Regional Council Approval of 2018 FCPP Awards	February 7, 2019
Pilot Launch	Spring 2019
Pilot Programs Conclude	December 2020
Pilot Program Final Reporting	December 2020

Thank you

Rye Baerg

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213-236-1866





Southern California Association of Governments
900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017
November 1, 2018

To: Energy & Environment Committee (EEC)
Transportation Committee (TC)
Community, Economic and Human Development Committee (CEHD)
From: Kimberly Clark, Regional Planner Specialist, Research & Analysis, (213) 236-1844, Clark@scag.ca.gov
Subject: Update on SCAG's Bottom-Up Local Input and Envisioning Process

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

RECOMMENDED ACTION FOR CEHD:

For Information Only – No Action Required

RECOMMENDED ACTION FOR TC and EEC:

Receive and File

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians. 4: Provide innovative information and value-added services to enhance member agencies' planning and operations and promote regional collaboration.

EXECUTIVE SUMMARY:

In preparation for adoption of the region's next RTP/SCS in Spring 2020, SCAG has been engaging with local jurisdictions, subregions, and other stakeholders to inform development of the Regional Housing Needs Assessment (RHNA) and Connect SoCal. SCAG's Bottom-Up Local Input and Envisioning Process kicked off in fall 2017 with a regional training and webinar, and staff have been engaging stakeholders to establish a clear picture of local existing conditions and best practices to help inform potential regional policy options. Over the course of the last year, SCAG staff have met one-on-one with every city, town, and county in the Southern California region to review the planning process and local data elements that will inform both the RHNA and Connect SoCal; SCAG also offered on-site technical assistance to over 90 agencies requesting additional help. The deadline for jurisdictions to provide feedback on SCAG's base data was October 1, 2018, and SCAG received feedback from 88% of jurisdictions on one or more data elements under local review.

BACKGROUND:

Southern California will be facing new challenges in the development of the region's upcoming vision for the future – Connect SoCal; principally, transformational technologies in the transportation and employment sectors, new greenhouse gas (GHG) reduction targets from the California Air Resources Board (CARB), new Federal Highway Administration planning requirements, MAP 21 performance metrics/goals, and a concurrent Regional Housing Needs

Assessment (RHNA) cycle. Given these factors, it is important to establish a solid baseline of existing policies and plans to understand how Southern California can accommodate future growth and thrive in the coming decades.

To ensure that all jurisdictions are fully informed of the planning process and have clear and adequate opportunities to provide input, SCAG kicked off our Bottom-Up Local Input and Envisioning Process in fall 2017 to solicit local feedback on base land use data, anticipated population/household/employment growth, resource areas, sustainability practices, and transit-supportive measures to help decision makers understand how the region will perform under current circumstances in future years. Each jurisdiction was sent a detailed work plan during the first week of December 2017 to explain this process, identify support from subregional organizations, outline milestones, and provide instructions on submitting feedback. Several trainings have also been hosted throughout the region, and session content is available as webinars on SCAG's website.

To review this material and answer questions, SCAG staff met one-on-one with all 197 local jurisdictions in our region with the help of our subregional partners and offered on-site technical assistance to over 90 agencies requesting additional help. As of mid-October, 88% of jurisdictions (174) provided feedback on one or more of SCAG's data elements. 21 jurisdictions requested an extension of one to four weeks to review these data elements, and SCAG has granted all extensions on a case-by-case basis. For a complete listing of input provided by jurisdiction, please refer to Attachment 1. Moving forward, SCAG will be updating our datasets with input received to date. This information will then be used to develop potential scenarios for Connect SoCal through a structured and collaborative engagement with local jurisdictions, CTCs, a broad range of stakeholder groups, and the general public.

The 2020 RHNA will also be completed concurrently and in coordination with the Bottom-Up Local Input and Envisioning Process. The projection period for the 6th cycle of the RHNA will be from year 2021 to 2029. Staff will begin to meet with the California Department of Housing and Community Development (HCD) starting early next year to initiate the regional housing need determination process, after which a methodology will be reviewed and adopted by the RHNA Subcommittee, Community, Economic, and Human Development Policy Committee, and Regional Council. The regional determination will use input submitted during the Bottom-Up Local Input and Envisioning Process as the starting point for the RHNA allocation. SCAG plans to distribute the draft RHNA allocation to each jurisdiction in early winter 2020 and adopt the final RHNA allocation by October 2020. SCAG will continue to explore ways to maximize outreach and participation in the RHNA process.

FISCAL IMPACT:

Work associated with this item is included in the current FY 2018-2019 Overall Work Program (150-4069.04, Outreach and Technical Collaboration).

ATTACHMENT(S):

1. Input Received by Jurisdiction for SCAG's Bottom-Up Local Input and Envisioning Process (as of October 18, 2018)



2. PowerPoint Presentation: Bottom Up Local Input Process

Input Received by Jurisdiction for SCAG's Bottom-Up Local Input and Envisioning Process
October 19, 2018

ID	COUNTY	SUBREGION*	JURISDICTION	Input Received on One or More Data Elements**	Input on Geographic Data within GIS Data/Map Book	Input on Growth Forecast (Jurisdictional Level and/or TAZ Level) within GIS Data/Map Book	Input on Survey (PDF or Survey Monkey Submission)	Data Approval (GIS Data/Map)	Data Approval (Growth Forecast)	Data Input and Approval Form (or Other Form of Confirmation)	Subregional TAC Presentation	One on One Meeting Scheduled
1	Imperial	ICTC	Brawley	Input Received	Input Received	Input Received	-	-	-	10/2/2018	-	12/13/2017
2	Imperial	ICTC	Calexico	-	-	-	-	-	-	-	-	12/13/2017
3	Imperial	ICTC	Calipatria	Input Received	Input Received	-	-	-	-	-	-	12/12/2017
4	Imperial	ICTC	El Centro	Input Received	Input Received	Input Received	-	Approved	-	9/25/2018	-	12/12/2017
5	Imperial	ICTC	Holtville	Input Received	Input Received	-	-	-	-	-	-	12/12/2017
6	Imperial	ICTC	Imperial	Input Received	Input Received	-	-	-	-	-	-	12/11/2017
7	Imperial	ICTC	Unincorporated	-	-	-	-	-	-	-	-	12/11/2017
8	Imperial	ICTC	Westmorland	Input Received	Input Received	Input Received	-	Reviewing	-	-	-	6/12/2018
9	Los Angeles	Arroyo Verdugo	Burbank	-	-	-	-	-	-	-	-	4/17/2018
10	Los Angeles	Arroyo Verdugo	Glendale	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018	-	4/17/2018
11	Los Angeles	Arroyo Verdugo	La Canada Flintridge	Input Received	Input Received	Input Received	Input Received	Approved	-	9/5/2018	-	1/31/2018
12	Los Angeles	City of Los Angeles	Los Angeles	Input Received	Input Received	Input Received	Input Received	-	-	-	-	6/5/2018
13	Los Angeles	City of Los Angeles	San Fernando	Input Received	Input Received	Input Received	Input Received	Approved	Approved	8/27/2018	-	3/26/2018
14	Los Angeles	City of Los Angeles	Unincorporated	Input Received	Input Received	Input Received	Input Received	-	Approved	10/3/2018	-	6/13/2018
15	Los Angeles	GCCOG	Artesia	Extension Requested	-	-	-	-	-	-	-	6/12/2018
16	Los Angeles	GCCOG	Avalon	Input Received	Input Received	Input Received	Input Received	Reviewing	-	10/17/2018	-	5/31/2018
17	Los Angeles	GCCOG	Bell	Input Received	Input Received	-	-	-	-	-	-	5/22/2018
18	Los Angeles	GCCOG	Bell Gardens	-	-	-	-	-	-	-	-	5/14/2018
19	Los Angeles	GCCOG	Bellflower	Input Received	Input Received	Input Received	Input Received	-	-	10/12/2018	-	5/7/2018
20	Los Angeles	GCCOG	Cerritos	Input Received	Input Received	Input Received	Input Received	Reviewing	-	9/18/2018	-	5/16/2018
21	Los Angeles	GCCOG	Commerce	Input Received	Input Received	Input Received	Input Received	-	Approved	-	-	5/16/2018
22	Los Angeles	GCCOG	Compton	Input Received	Input Received	Input Received	Input Received	-	-	-	-	6/6/2018
23	Los Angeles	GCCOG	Cudahy	-	-	-	-	-	-	-	-	4/12/2018
24	Los Angeles	GCCOG	Downey	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018	-	5/14/2018
25	Los Angeles	GCCOG	Hawaiian Gardens	Input Received	Input Received	Input Received	-	Approved	-	10/4/2018	-	5/24/2018
26	Los Angeles	GCCOG	Huntington Park	-	-	-	-	-	-	-	-	5/15/2018
27	Los Angeles	GCCOG	La Habra Heights	-	-	-	-	-	-	-	-	5/30/2018
28	Los Angeles	GCCOG	La Mirada	Input Received	-	-	Input Received	-	-	-	-	5/10/2018
29	Los Angeles	GCCOG	Lakewood	Input Received	Input Received	-	Input Received	-	-	-	-	6/7/2018
30	Los Angeles	GCCOG	Long Beach	Input Received	Input Received	Input Received	Input Received	-	-	-	-	5/22/2018
31	Los Angeles	GCCOG	Lynwood	-	-	-	-	-	-	-	-	6/4/2018
32	Los Angeles	GCCOG	Maywood	-	-	-	-	-	-	-	-	7/3/2018
33	Los Angeles	GCCOG	Norwalk	Input Received	Input Received	Input Received	Input Received	Approved	-	9/26/2018	-	5/30/2018
34	Los Angeles	GCCOG	Paramount	Input Received	Input Received	Input Received	-	Reviewing	-	10/2/2018	-	6/5/2018
35	Los Angeles	GCCOG	Pico Rivera	Extension Requested	-	-	-	-	-	-	-	5/15/2018
36	Los Angeles	GCCOG	Santa Fe Springs	Input Received	Input Received	Input Received	-	-	-	10/1/2018	-	5/17/2018
37	Los Angeles	GCCOG	Signal Hill	Input Received	Input Received	Input Received	-	-	Approved	10/1/2018	-	5/21/2018
38	Los Angeles	GCCOG	South Gate	Input Received	-	-	Input Received	-	-	-	-	5/23/2018
39	Los Angeles	GCCOG	Vernon	Input Received	Input Received	Input Received	Input Received	Approved	Approved	9/10/2018	-	5/31/2018
40	Los Angeles	GCCOG	Whittier	-	-	-	-	-	-	-	-	6/12/2018
41	Los Angeles	Las Virgenes Malibu COG	Agoura Hills	Input Received	Input Received	Input Received	Input Received	-	-	9/27/2018	-	2/15/2018
42	Los Angeles	Las Virgenes Malibu COG	Calabasas	Input Received	Input Received	Input Received	Input Received	Approved	-	5/31/2018	-	3/6/2018
43	Los Angeles	Las Virgenes Malibu COG	Hidden Hills	-	-	-	-	-	-	-	-	3/20/2018
44	Los Angeles	Las Virgenes Malibu COG	Malibu	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018	-	3/15/2018
45	Los Angeles	Las Virgenes Malibu COG	Westlake Village	Input Received	Input Received	Input Received	Input Received	Reviewing	Approved	8/22/2018	-	6/6/2018
46	Los Angeles	North Los Angeles County	Lancaster	Extension Requested	-	-	-	-	-	-	-	4/2/2018
47	Los Angeles	North Los Angeles County	Palmdale	Input Received	Input Received	Input Received	Input Received	-	-	9/27/2018	-	5/29/2018
48	Los Angeles	North Los Angeles County	Santa Clarita	Extension Requested	-	-	-	-	-	-	-	3/5/2018
49	Los Angeles	SBCCOG	Carson	-	-	-	-	-	-	-	-	4/12/2018
50	Los Angeles	SBCCOG	El Segundo	Input Received	Input Received	-	Input Received	-	-	-	-	4/19/2018
51	Los Angeles	SBCCOG	Gardena	Input Received	Input Received	Input Received	Input Received	Approved	Approved	9/27/2018	-	6/8/2018
52	Los Angeles	SBCCOG	Hawthorne	Input Received	Input Received	Input Received	Input Received	-	-	-	-	4/9/2018
53	Los Angeles	SBCCOG	Hermosa Beach	Input Received	Input Received	Input Received	Input Received	-	-	10/2/2018	-	6/14/2018
54	Los Angeles	SBCCOG	Inglewood	Extension Requested	-	-	-	-	-	-	-	2/5/2018
55	Los Angeles	SBCCOG	Lawndale	Input Received	-	-	Input Received	-	-	-	-	4/9/2018
56	Los Angeles	SBCCOG	Lomita	Input Received	Input Received	Input Received	Input Received	-	Approved	9/14/2018	-	4/12/2018
57	Los Angeles	SBCCOG	Manhattan Beach	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018	-	4/10/2018
58	Los Angeles	SBCCOG	Palos Verdes Estates	Input Received	-	-	Input Received	-	-	-	-	6/14/2018
59	Los Angeles	SBCCOG	Rancho Palos Verdes	Input Received	Input Received	Input Received	-	Reviewing	-	10/1/2018	-	4/16/2018
60	Los Angeles	SBCCOG	Redondo Beach	Input Received	Input Received	Input Received	Input Received	-	-	9/27/2018	-	4/18/2018
61	Los Angeles	SBCCOG	Rolling Hills	Input Received	Input Received	-	-	-	-	-	-	4/30/2018
62	Los Angeles	SBCCOG	Rolling Hills Estates	Input Received	-	-	Input Received	-	-	-	-	4/16/2018
63	Los Angeles	SBCCOG	Torrance	Input Received	Input Received	Input Received	Input Received	Approved	-	10/1/2018	-	6/11/2018
64	Los Angeles	SGVCOG	Alhambra	Input Received	-	-	Input Received	-	-	-	11/30/2017	2/20/2018
65	Los Angeles	SGVCOG	Arcadia	-	-	-	-	-	-	-	11/30/2017	2/14/2018
66	Los Angeles	SGVCOG	Azusa	-	-	-	-	-	-	-	11/30/2017	3/22/2018
67	Los Angeles	SGVCOG	Baldwin Park	Input Received	Input Received	Input Received	Input Received	Reviewing	-	9/26/2018	11/30/2017	2/12/2018
68	Los Angeles	SGVCOG	Bradbury	Input Received	Input Received	Input Received	Input Received	-	-	-	11/30/2017	3/14/2018
69	Los Angeles	SGVCOG	Claremont	Input Received	Input Received	-	-	Reviewing	-	-	11/30/2017	3/8/2018
70	Los Angeles	SGVCOG	Covina	Input Received	Input Received	Input Received	-	-	-	-	11/30/2017	3/20/2018
71	Los Angeles	SGVCOG	Diamond Bar	Input Received	Input Received	Input Received	-	Reviewing	-	9/26/2018	11/30/2017	2/26/2018
72	Los Angeles	SGVCOG	Duarte	Input Received	Input Received	-	-	-	-	-	11/30/2017	2/13/2018
73	Los Angeles	SGVCOG	El Monte	Input Received	Input Received	Input Received	Input Received	-	Approved	10/1/2018	11/30/2017	1/17/2018
74	Los Angeles	SGVCOG	Glendora	Input Received	Input Received	Input Received	Input Received	Reviewing	-	-	11/30/2017	2/8/2018
75	Los Angeles	SGVCOG	Industry	Extension Requested	-	-	-	-	-	-	11/30/2017	3/6/2018
76	Los Angeles	SGVCOG	Irwindale	Input Received	Input Received	Input Received	Input Received	-	-	-	11/30/2017	3/15/2018
77	Los Angeles	SGVCOG	La Puente	Input Received	-	-	Input Received	-	-	10/1/2018	11/30/2017	2/21/2018
78	Los Angeles	SGVCOG	La Verne	Input Received	Input Received	Input Received	Input Received	-	-	-	11/30/2017	2/22/2018
79	Los Angeles	SGVCOG	Monrovia	Input Received	Input Received	Input Received	-	Approved	-	10/8/2018	11/30/2017	2/7/2018
80	Los Angeles	SGVCOG	Montebello	-	-	-	-	-	-	-	11/30/2017	3/20/2018
81	Los Angeles	SGVCOG	Monterey Park	-	-	-	-	-	-	-	11/30/2017	1/29/2018
82	Los Angeles	SGVCOG	Pasadena	Input Received	Input Received	-	Input Received	-	-	-	11/30/2017	1/31/2018
83	Los Angeles	SGVCOG	Pomona	Input Received	Input Received	-	-	-	-	-	11/30/2017	2/22/2018
84	Los Angeles	SGVCOG	Rosemead	Input Received	Input Received	-	-	-	-	-	11/30/2017	2/12/2018
85	Los Angeles	SGVCOG	San Dimas	Input Received	Input Received	Input Received	-	-	-	10/1/2018	11/30/2017	2/8/2018
86	Los Angeles	SGVCOG	San Gabriel	Extension Requested	-	-	-	-	-	-	11/30/2017	4/4/2018
87	Los Angeles	SGVCOG	San Marino	Input Received	Input Received	-	Input Received	Approved	-	10/2/2018	11/30/2017	3/15/2018
88	Los Angeles	SGVCOG	Sierra Madre	Input Received	Input Received	Input Received	Input Received	Approved	-	9/26/2018	11/30/2017	2/7/2018
89	Los Angeles	SGVCOG	South El Monte	Input Received	Input Received	-	Input Received	Approved	-	8/7/2018	11/30/2017	2/21/2018
90	Los Angeles	SGVCOG	South Pasadena	Input Received	-	-	Input Received	-	-	-	11/30/2017	2/20/2018
91	Los Angeles	SGVCOG	Temple City	Input Received	Input Received	Input Received	Input Received	Approved	-	8/1/2018	11/30/2017	1/29/2018
92	Los Angeles	SGVCOG	Walnut	Input Received	Input Received	Input Received	Input Received	Approved	-	6/27/2018	11/30/2017	2/14/2018
93	Los Angeles	SGVCOG	West Covina	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018	11/30/2017	2/26/2018
94	Los Angeles	WCCOG	Beverly Hills	Input Received	Input Received	-	Input Received	-	-	10/1/2018	-	6/7/2018
95	Los Angeles	WCCOG	Culver City	Input Received	Input Received	Input Received	Input Received	Approved	Approved	10/1/2018	-	6/13/2018
96	Los Angeles	WCCOG	Santa Monica	Input Received	Input Received	-	-	-	-	10/17/2018	-	6/4/2018
97	Los Angeles	WCCOG	West Hollywood	Extension Requested	-	-	-	-	-	-	-	5/30/2018
98	Orange	OCCOG	Aliso Viejo	Input Received	Input Received	Input Received	Input Received	Approved	-	9/27/2018	12/5/2017	3/27/2018
99	Orange	OCCOG	Anaheim	Input Received	Input Received	Input Received	Input Received	-	-	-	12/5/2017	3/27/2018
100	Orange	OCCOG	Brea	Input Received	Input Received	Input Received	Input Received	Approved	-	10/4/2018	12/5/2017	3/19/2018
101	Orange	OCCOG	Buena Park	Input Received	Input Received	Input Received	Input Received	-	-	-	12/5/2017	3/8/2018
102	Orange	OCCOG	Costa Mesa	Input Received	Input Received	Input Received	Input Received	-	-	10/8/2018	12/5/2017	3/21/2018
103	Orange	OCCOG	Cypress	Input Received	Input Received	Input Received	Input Received	-	-	-	12/5/2017	3/27/2018
104	Orange	OCCOG	Dana Point	Input Received	Input Received	Input Received	Input Received	Approved	-	8/9/2018	12/5/2017	3/13/2018
105	Orange	OCCOG	Fountain Valley	Input Received	Input Received	Input Received	Input Received	-	-	10/3/2018	12/5/2017	3/21/2018
106	Orange	OCCOG	Fullerton	Input Received	Input Received	Input Received	Input Received	-	-	-	12/5/2017	3/21/2018
107	Orange	OCCOG	Garden Grove	Input Received	Input Received	Input Received	Input Received	Approved	-	9/24/2018	12/5/2017	3/14/2018
108	Orange	OCCOG	Huntington Beach	Input Received	Input Received	Input Received	Input Received	-	-	9/28/2018	12/5/2017	3/20/2018
109	Orange	OCCOG	Irvine	Input Received	Input Received	Input Received	Input Received	-	-	-	12/5/2017	3/7/2018
110	Orange	OCCOG	La Habra	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018	12/5/2017	3/19/2018
111	Orange	OCCOG	La Palma	Input Received	Input Received	Input Received	Input Received	-	-	-	12/5/2017	3/20/2018
112	Orange	OCCOG	Laguna Beach	Input Received	Input Received	Input Received	Input Received	-	-	-	12/5/2017	3/28/2018
113	Orange	OCCOG	Laguna Hills	Input Received	Input Received	Input Received	-	-	-	-	12/5/2017	3/7/2018
114	Orange	OCCOG	Laguna Niguel	Input Received	Input Received	Input Received	Input Received	-	-	-	12/5/2017	3/19/2018
115	Orange	OCCOG	Laguna Woods	Input Received	Input Received	Input Received	-	Approved	-	-	12/5/2017	3/12/2018
116	Orange	OCCOG	Lake Forest	Input Received	Input Received	Input Received	Input Received	-	-	-	12/5/2017	3/8/2018
117	Orange	OCCOG	Los Alamitos	Input Received	Input Received	Input Received	-	Approved	-	9/10/2018	12/5/2017	3/14/2018
118	Orange	OCCOG	Mission Viejo	Input Received	Input Received	Input Received	Input Received	-	-	-	12/5/2017	3/19/2018
11												

Input Received by Jurisdiction for SCAG's Bottom-Up Local Input and Envisioning Process
October 15, 2018

ID	COUNTY	SUBREGION*	JURISDICTION	Input Received on One or More Data Elements**	Input on Geographic Data within GIS Data/Map Book	Input on Growth Forecast (Jurisdictional Level and/or TAZ Level) within GIS Data/Map Book	Input on Survey (PDF or Survey Monkey Submission)	Data Approval (GIS Data/Map)	Data Approval (Growth Forecast)	Data Input and Approval Form (or Other Form of Confirmation)	Subregional TAC Presentation	One on One Meeting Scheduled
167	San Bernardino	SBCTA	Chino Hills	Input Received	Input Received	Input Received	-	-	-	10/16/2018		3/26/2018
168	San Bernardino	SBCTA	Colton	Input Received	Input Received	Input Received	-	Reviewing	-	5/15/2018		4/18/2018
169	San Bernardino	SBCTA	Fontana	Input Received	Input Received	Input Received	Input Received	-	-	9/27/2018		3/26/2018
170	San Bernardino	SBCTA	Grand Terrace	Input Received	Input Received	Input Received	Input Received	Reviewing	-	-		4/19/2018
171	San Bernardino	SBCTA	Hesperia	Input Received	Input Received	Input Received	Input Received	Reviewing	Approved	-		3/29/2018
172	San Bernardino	SBCTA	Highland	Input Received	Input Received	Input Received	-	-	-	10/2/2018		3/20/2018
173	San Bernardino	SBCTA	Loma Linda	Input Received	-	Input Received	-	-	-	10/18/2018		4/25/2018
174	San Bernardino	SBCTA	Montclair	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018		4/19/2018
175	San Bernardino	SBCTA	Needles	Input Received	Input Received	Input Received	-	-	-	-		5/31/2018
176	San Bernardino	SBCTA	Ontario	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018		3/27/2018
177	San Bernardino	SBCTA	Rancho Cucamonga	Input Received	Input Received	Input Received	-	-	-	10/18/2018		3/27/2018
178	San Bernardino	SBCTA	Redlands	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018		4/26/2018
179	San Bernardino	SBCTA	Rialto	Input Received	Input Received	Input Received	-	-	-	-		5/7/2018
180	San Bernardino	SBCTA	San Bernardino	Input Received	-	Input Received	Input Received	-	-	-		4/23/2018
181	San Bernardino	SBCTA	Twentynine Palms	Input Received	Input Received	Input Received	Input Received	Reviewing	Approved	10/15/2018		3/21/2018
182	San Bernardino	SBCTA	Unincorporated	Input Received	Input Received	Input Received	Input Received	-	-	10/2/2018		-
183	San Bernardino	SBCTA	Upland	Input Received	Input Received	Input Received	-	-	-	-		4/18/2018
184	San Bernardino	SBCTA	Victorville	Input Received	Input Received	Input Received	-	-	Approved	9/27/2018		3/15/2018
185	San Bernardino	SBCTA	Yucaipa	Input Received	Input Received	Input Received	Input Received	Reviewing	-	9/20/2018		4/24/2018
186	San Bernardino	SBCTA	Yucaipa Valley	Input Received	Input Received	Input Received	-	-	-	10/5/2018		3/21/2018
187	Ventura	VCOG	Camarillo	Input Received	Input Received	Input Received	-	Reviewing	-	7/10/2018		4/26/2018
188	Ventura	VCOG	Fillmore	-	-	-	-	-	-	-		3/6/2018
189	Ventura	VCOG	Moorpark	Input Received	Input Received	Input Received	Input Received	-	Approved	10/1/2018		3/22/2018
190	Ventura	VCOG	Ojai	Input Received	Input Received	Input Received	Input Received	-	Approved	10/1/2018		6/12/2018
191	Ventura	VCOG	Oxnard	Input Received	Input Received	Input Received	-	-	-	9/27/2018		4/3/2018
192	Ventura	VCOG	Port Hueneme	Input Received	Input Received	Input Received	Input Received	-	-	9/27/2018		4/11/2018
193	Ventura	VCOG	San Buenaventura	Input Received	Input Received	Input Received	Input Received	-	-	9/27/2018		4/26/2018
194	Ventura	VCOG	Santa Paula	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018		5/8/2018
195	Ventura	VCOG	Simi Valley	Input Received	Input Received	Input Received	Input Received	-	-	10/8/2018		4/25/2018
196	Ventura	VCOG	Thousand Oaks	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018		3/15/2018
197	Ventura	VCOG	Unincorporated	Input Received	Input Received	Input Received	Input Received	-	-	10/1/2018		4/23/2018
			Input	174	147	138	113	0	0	101	65	196
			Remaining Jurisdictions	23	50	59	84	150	180	96	132	1
			Percent Completed	88%	75%	70%	57%	0%	0%	51%	33%	99%

KEY

STATUS	Input Received	Extension Requested
	Input was received from local jurisdiction on one or more data elements	Local jurisdiction has requested additional time to provide feedback on one or more datasets

* Note: Many jurisdictions belong to more than one subregion. For the purposes of tracking input and avoiding double-counting, SCAG assigns a primary subregion for each jurisdiction

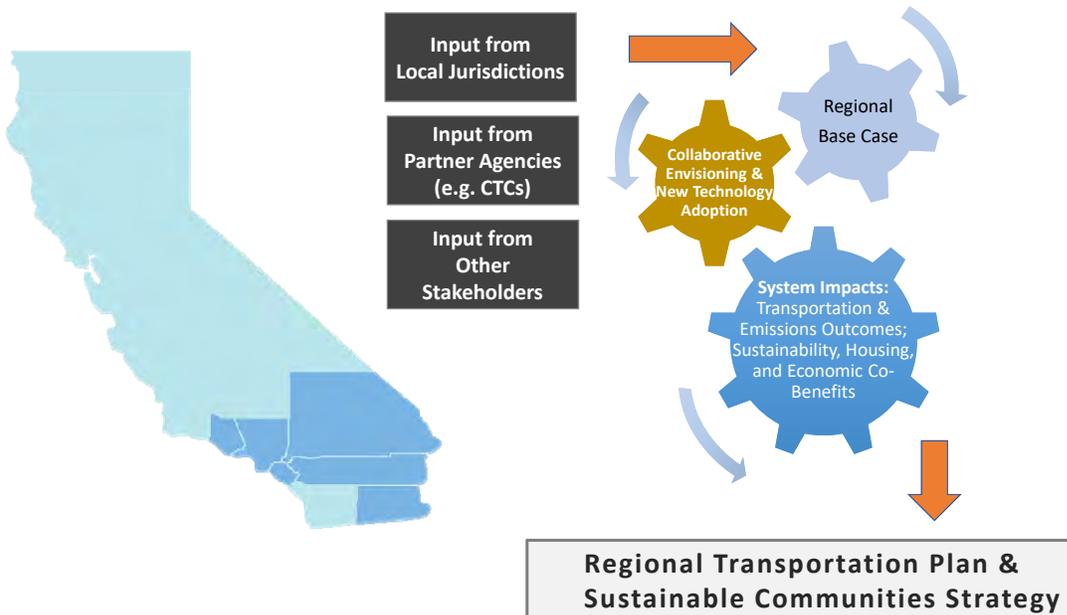
Update on the Bottom-Up Local Input and Envisioning Process for the 2020 RTP/SCS and RHNA

Community, Economic, and Human Development
Committee

Kimberly Clark
Regional Planner Specialist
November 1, 2018

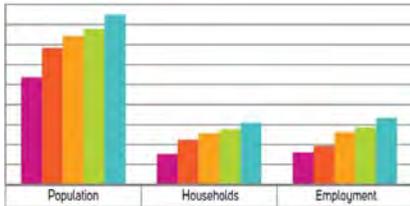


2020 RTP/SCS Plan Development Process

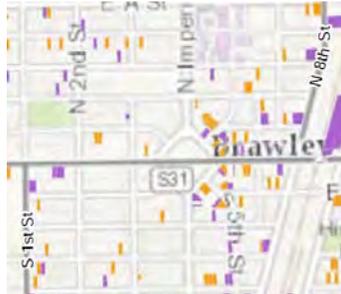


2020 RTP/SCS Plan Development Process

Regional Base Case



Current and Future
Population, Households, Employment



Existing and Planned Land Use,
Local Transportation Infrastructure,
Resource Areas, Potential Infill Parcels



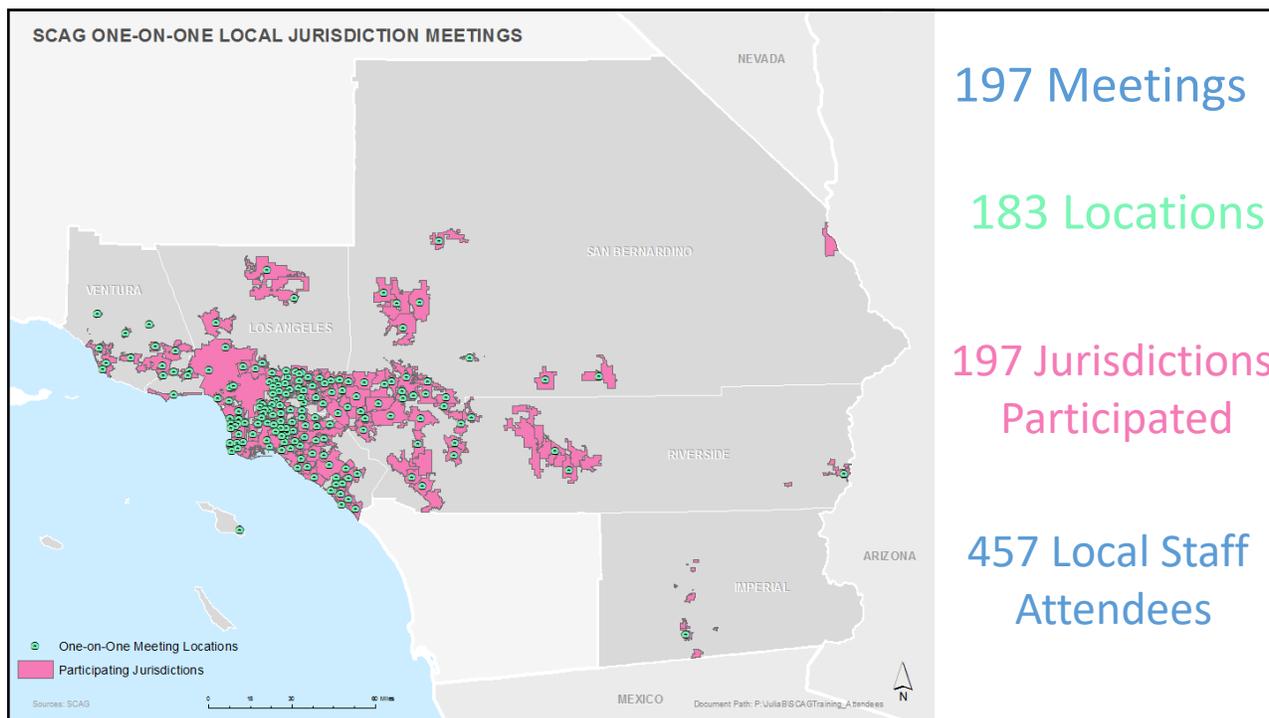
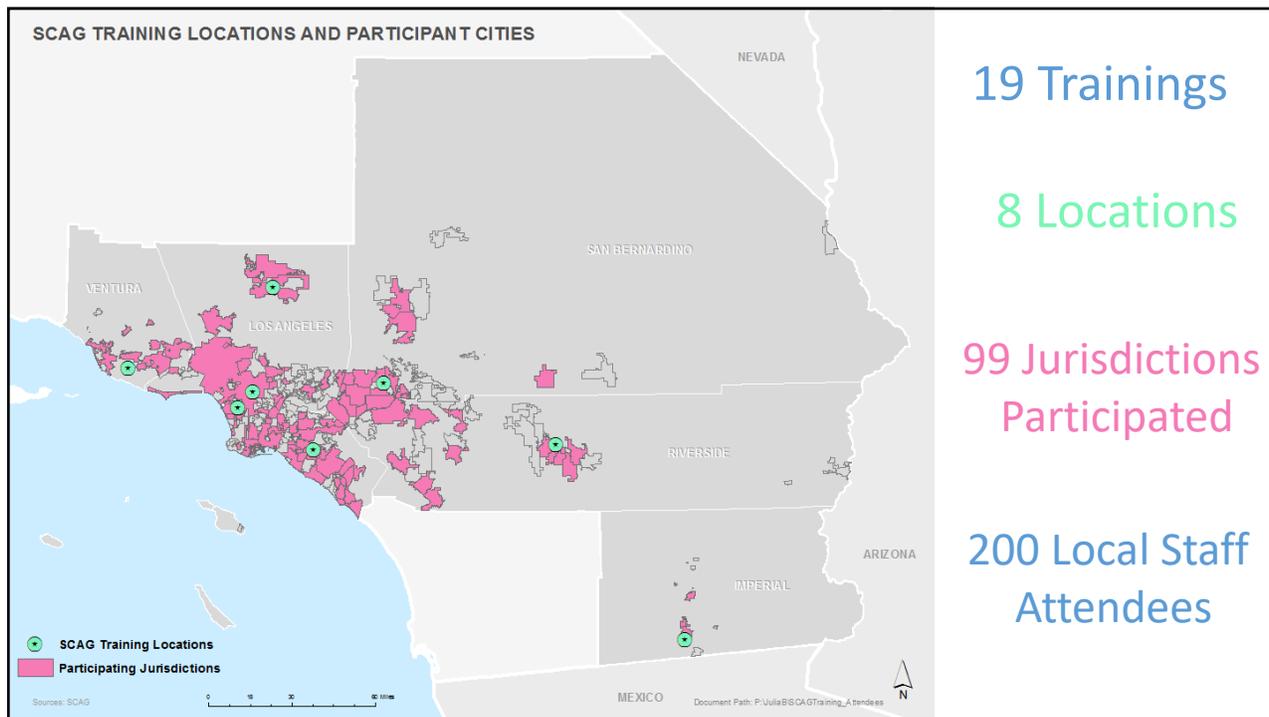
Sustainability Best Practices,
Transit Supportive Measures

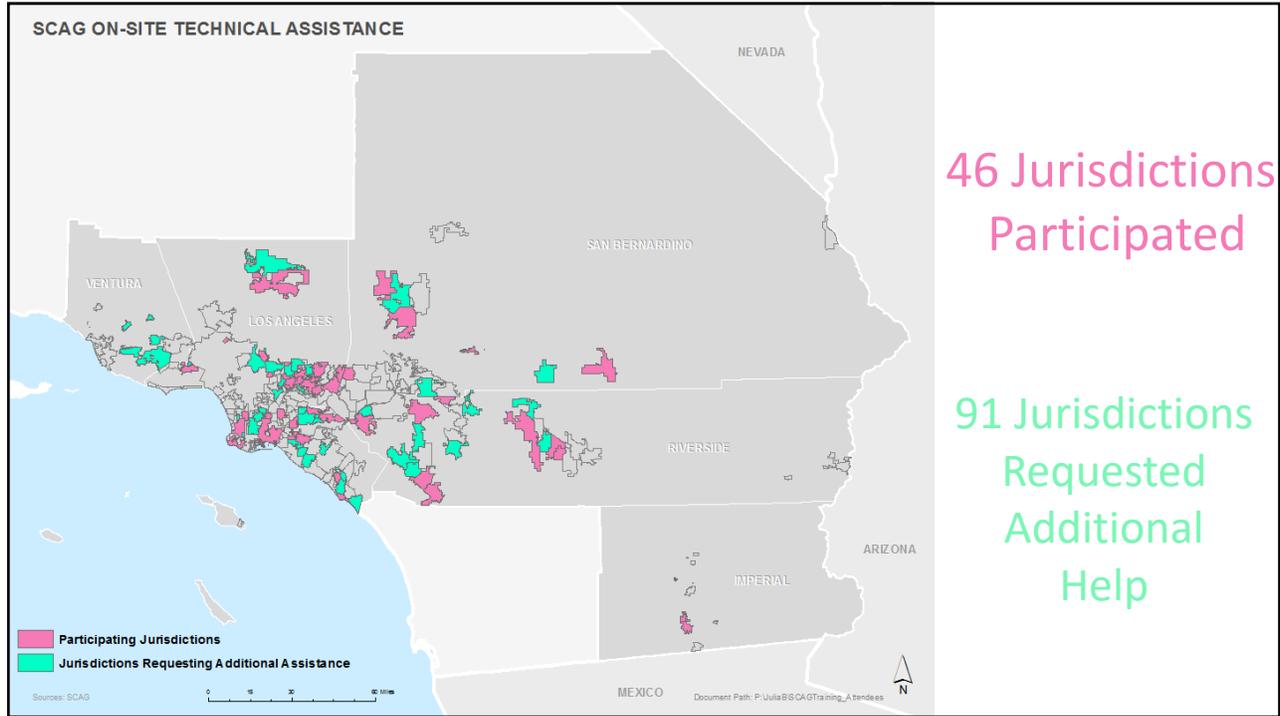
Bottom-Up Local Input and Envisioning Process

Outreach to Date

- 197 Letters and Work Plans Distributed to Local Jurisdictions
- 197 One-on-One Meetings
- 80 Jurisdictions Offered On-Site Technical Assistance
- 21 Subregional Presentations
- 19 Regional and Classroom-Style Trainings
- 1 City Council Study Session







Bottom-Up Local Input and Envisioning Process

In preparation for adoption of Southern California's next Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS) in spring 2020, SCAG will be engaging with local jurisdictions, subregions, and other stakeholders to inform development of the upcoming Plan. SCAG's Bottom-Up Local Input and Envisioning Process is being conducted to solicit feedback from local jurisdictions on base land use, anticipated population/household/employment growth, resource areas, sustainability practices, and local transit-supportive measures to help decision makers understand how the region will perform under current circumstances in future years.

This information will then be used to develop potential scenarios for the 2020 RTP/SCS, through a structured and collaborative engagement with local jurisdictions, county transportation commissions, a broad range of stakeholder groups, and the general public. Input from jurisdictions on locally anticipated household and population growth will also be used by SCAG as part of the regional housing need determination process with the California Department of Housing and Community Development (HCD).

For ease of review, core data items have been mapped in draft format and assembled in an individual map book for each local jurisdiction (available below). County-level maps showing the first draft of anticipated growth are also accessible for review.

Draft Data/Map Books

To request draft high-quality maps and shapefiles of SCAG's Data/Map Book or related materials, please contact RTPLocalInput@scag.ca.gov.

Please note that SCAG's draft data is undergoing refinement based on feedback from local jurisdictions, and material included here is subject to revision; inquiries for official data should be directed to each respective local jurisdiction.

IN THIS SECTION

- Draft Data/Map Books
- Training Materials
- Regional Housing Needs Assessment
- Bottom-Up Local Input & Envisioning Process

Imperial County	
<ul style="list-style-type: none"> • Brawley • Calexico • Calipatria • El Centro • Holtville • Imperial • Imperial County (Unincorporated Area) • Westmorland • Imperial County-Wide Socioeconomic Data Map (Household) • Imperial County-Wide Socioeconomic Data Map (Employment) • Regional Entitlements Map 	
Los Angeles County	+
Orange County	+
Riverside County	+
San Bernardino County	+
Ventura County	+

Training Materials



On October 31, 2017, SCAG held a regional training on the Bottom-Up Local Input and Envisioning Process to help local jurisdictions and other stakeholders understand how this early stage of data refinement will impact the RTP/SCS and Regional Housing Needs Assessment (RHNA).

[Watch the Video](#)

Regional Housing Needs Assessment



The Regional Housing Needs Assessment (RHNA) is mandated by State Housing Law as part of the periodic process of updating local housing elements of the General Plan.

[View the Factsheet](#)

Bottom-Up Local Input & Envisioning Process



SCAG will engage with jurisdictions one-on-one to establish a regional profile of base land use, population, household and employment growth, resource areas, sustainability practices, and local transit-supportive plans and policies.

[More Information](#)

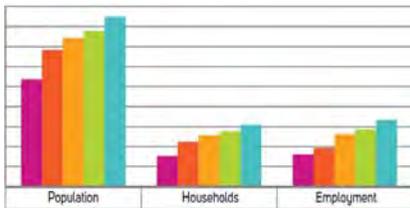
Deadline to Submit Input to SCAG

October 1st, 2018

For additional information on this process, including a detailed work plan, please contact SCAG staff at RTPLocalInput@scag.ca.gov.

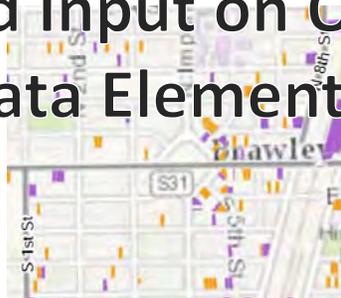
2020 RTP/SCS Plan Development Process *Regional Base Case*

88% Provided Input on One or More Data Elements



Current and Future
Population, Households, Employment

75%



Existing and Planned Land Use,
Local Transportation Infrastructure,
Resource Areas, Potential Infill Parcels

70%



Sustainability Best Practices,
Transit Supportive Measures

57%

Bottom-Up Local Input and Envisioning Process *Phases and Schedule*

197 Jurisdictions



Thank you

Kimberly Clark

clark@scag.ca.gov

213-236-1844





Southern California Association of Governments
900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017
November 1, 2018

To: Transportation Committee (TC)
From: Matthew Gleason, Senior Regional Planner, Transit/Rail, (213)
236-1832, gleason@scag.ca.gov
Subject: Transit Climate Adaptation and Resiliency Assessment

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

RECOMMENDED ACTION:

Receive and File

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians.

EXECUTIVE SUMMARY:

Work recently concluded on the Transit Climate Adaptation and Resiliency assessment, an 18-month effort to provide a toolbox of resources that local providers of public transportation could use to incorporate resilience to the impacts of global climate change into their planning, contracting, and asset management practices. The report below provides an overview of the project and its products.

BACKGROUND:

At its February 15, 2013 meeting, the High-Speed Rail and Transit Subcommittee directed staff to pursue efforts to improve the resiliency of the region's transit systems in the face of natural disasters. Subsequent to that direction, staff applied for and received a grant to assist local providers of public transportation incorporate climate change resiliency into their planning. The grant was used to fund the production of a toolbox of resources.

PROJECT AIMS AND OBJECTIVES:

The Transit Climate Adaptation and Resiliency effort sought to evaluate the potential effects of changes in climate stressors, and developed resources to aid local agency staff in incorporating climate change adaptation strategies into their planning processes, to ensure system resiliency. The study team developed a toolbox of resources, provided an asset class based inventory of regional transit assets, sought out regional climate forecast information, and performed a high level assessment of vulnerability to, and risk from, climate stressors. Work concluded in June 2018, and the resources are available at:

<http://scagmain-auth/programs/Pages/Adaptation-and-Resilience-Planning.aspx>.

This effort's methodology included producing a toolbox of resources to be used to identify critical assets and routes; integrate climate considerations into local and regional planning processes; and implement adaptation practices to improve transit system resilience while complying with state and

federal regulations. These resources were developed via a collaborative process with local agencies, through in-person workshops and panel reviews, to develop a toolbox of resources that will assist transit agencies in completing these activities with limited resources. This project, including the final “Climate Resilience Toolbox”, achieved the following five objectives through engagement with transit agencies and completion of project deliverables:

- **Objective 1 – Provide an actionable climate adaptation and resilience plan.** The Toolbox empowers transit agencies to conduct their own high level criticality and vulnerability assessments efficiently and cost-effectively, enabling them to quickly move to adaptation planning and implementation.
- **Objective 2 - Identify critical assets and routes.** Through collaboration workshops with local transit agencies, resources for determining the criticality of existing transit assets were developed.
- **Objective 3 - Integrate climate change forecast data.** The Toolbox provides guidance for transit agency staff seeking to access and apply local climate change projection data. The toolbox also includes a summary of projected changes in climate in the SCAG Region, reducing the need for transit agencies to locate and interpret projected climate trends themselves.
- **Objective 4 - Increase regional transit system disaster recovery and resilience.** Collaborative workshops allowed us to work with local transit agencies to begin and continue to promote transit system resilience. The Toolbox also includes resources to assist agencies in pursuing climate resiliency initiatives.
- **Objective 5 - Support local planning efforts.** The Toolbox includes guidance for integrating climate change information and considerations into existing processes, including those required by local or federal standards.

OUTREACH:

Local agency input was key to the effort. This study was presented to the Regional Transit Technical Advisory Committee in May 2017, November 2017, and April 2018.

In addition, there were three outreach workshops with invited staff from participating transit agencies. The first workshop focused on vulnerability and criticality. The consultant team shared climate forecast information and exposure maps, illustrated how routes might be exposed to key stressors, and provided guidance for obtaining climate information in a cost-effective manner. The second two workshops focused on potential adaptation strategies, evaluating their feasibility and effectiveness, and developing a framework for incorporating these strategies into normal agency processes, including planning, procurement, and asset management.

THE TOOLBOX:

The project team prepared a series of resources. The final adaptation toolbox includes eleven different elements, based on input from the workshop process, and intended to help guide providers to improve their resilience climate change related stresses.

#	Resource Name	Purpose
1	Projected Changes in Climate in the SCAG Region	Overview of projected changes in sea level, extreme precipitation, inland flooding, and extreme heat across the SCAG region.
2	Assessing Vulnerability and Consequences: Getting Started	Guidance on articulating goals, refining the assessment focus, and using available frameworks and other resources.
3	Integrating Climate Change into Transit Planning Processes	Overview of how climate change resiliency can be worked into three key transit processes: procurement/contracting, transit asset management, and short range transit plans.
4	How to Obtain Detailed Climate Projection Data	For some analyses, detailed data are needed. This resource provides guidance on where and how to obtain this information.
5	Assessing Criticality	Some agencies may wish to focus efforts on the most critical components of their system. Different approaches for assessing criticality are discussed, and a scoring system to rank assets based on criticality is presented. The accompanying Excel spreadsheet helps automate criticality calculations.
6	Sensitivity Matrix	Simple to use Excel matrix discusses how common transit assets may be sensitive to changes in climate.
7	Example Adaptation Measures	Discusses different categories of adaptation measures, and gives examples of actual adaptation measures being implemented by transit agencies. The accompanying Excel file allows these measures to be filtered by type.
8	Tips for Selecting and Implementing Adaptation Measures	Provides suggestions to consider when determining which adaptation measures are right for your agency.
9	Climate Resilience Planning Template	Simple template that outlines roles, responsibilities, timelines, and key next steps in the resiliency planning process.
10	Contingency Plan Template	Template for developing a contingency plan in advance of adverse climate events.
11	Transit Resiliency Funding Opportunities	Profiles five state and federal grant programs that could be used to fund resiliency efforts.

FISCAL IMPACT:

This project is complete and was funded in the FY 2017-18 OWP under Work Element No 18-145.SCG03475.01. Work on this project was funded through a Caltrans FTA 5304 Statewide and Urban Transit Planning Grant.



Southern California Association of Governments
900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017
November 1, 2018

To: Community
Economic & Human Development Committee (CEHD)
Energy and Environment Committee (EEC)
From: Grieg Asher, Program Manager I, Sustainability, (213) 236-1869, asher@scag.ca.gov
Subject: 2019 California Building Energy Efficiency Standards

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

RECOMMENDED ACTION FOR EEC:
For Information Only – No Action Required

RECOMMENDED ACTION FOR CEHD:
Receive and File

STRATEGIC PLAN:
This item supports the following Strategic Plan Goal 2: Advance Southern California’s policy interests and planning priorities through regional, statewide, and national engagement and advocacy.

EXECUTIVE SUMMARY:
Dave Ashuckian, Division Director, Building Efficiency, California Energy Commission (CEC) will brief the Committee on the 2019 California Building Energy Efficiency Standards which were recently adopted by the CEC.

BACKGROUND:
California's Building Energy Efficiency Standards, which are updated on an approximately three-year cycle, are designed to reduce wasteful, uneconomic, inefficient or unnecessary consumption of energy, and enhance outdoor and indoor environmental quality. The 2019 Standards will continue to build upon the 2016 Standards for new construction of, and additions and alterations to, residential and nonresidential buildings. The 2019 Standards, which will go into effect on January 1, 2020, focus on four key areas:

- Smart residential photovoltaic systems;
- Updated thermal envelope standards (preventing heat transfer from the interior to exterior and vice versa);
- Residential and nonresidential ventilation requirements; and
- Nonresidential lighting requirements

The CEC projects that single-family homes built with the 2019 standards will use about 7 percent less energy due to energy efficiency measures versus those built under the 2016 standards. Seeking

to cut energy use in new homes by more than 50 percent, the CEC will now require solar photovoltaic systems starting in 2020. The new building energy efficiency standards, which are the first in the nation to require solar, will reduce greenhouse gas emissions (GHG) by an amount equivalent to taking 115,000 fossil fuel cars off the road. The CEC expects nonresidential buildings will use about 30 percent less energy due mainly to lighting upgrades.

FISCAL IMPACT:

No Fiscal Impact. This is not a SCAG funded project.

ATTACHMENT(S):

1. PowerPoint Presentation: EEC 2019 Building Energy Standards

2019 Building Energy Efficiency Standards

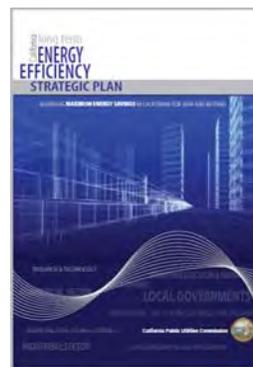


Dave Ashuckian, P.E., Director, Efficiency Division
California Energy Commission



ZNE Strategy: The Vision

- The ZNE goal was a simple idea: All newly constructed residential buildings must be ZNE by 2020:
“...the **net amount of energy produced by on-site renewable energy resources is equal to the amount of energy consumed annually by the building**”
- Improving building energy efficiency and deploying PVs were identified as the primary tools to achieve the ZNE goals



2



Progress Towards Reducing Carbon from Buildings

The 2019 Standards:

1. Incorporate efficiency measures and PV within the confines of cost effectiveness, NEM, and life cycle cost rules
2. Contribute to the State's GHG reduction goals
3. Promote self-utilization of the PV generation by encouraging or requiring demand flexibility and grid harmonization strategies
4. Provide independent compliance paths for both mixed-fuel and all-electric homes
5. Provide the tools for local governments to adopt ordinances that achieve additional reductions through Part 11 Reach Codes and other beyond code practices

3



2019 Standards Approach

The 2019 Standards recognize the following priority for efficiency and generation resources:

1. Envelope efficiency
2. Appropriately sized PVs
3. Grid harmonization strategies that maximize self-utilization of the PV output and limit exports to the grid



4



All-Electric Home Option

Standards allow an all-electric home's PV size be the same as an equally sized mixed fuel home with similar features:

- A larger PV array can be installed but will not receive additional compliance credit
- Requiring a much larger PV system on an all-electric home to displace the larger annual kWh may discourage all-electric homes



5



Parallel Prescriptive Paths

There are two parallel prescriptive paths for compliance, one for each of:

1. Mixed fuel homes
2. All-electric homes

This allows the all-electric and mixed fuel homes to have their own prescriptive paths

NEEA Tier 3 HPWH models can easily be used to meet or exceed standard design using the performance path



6



PV System Sizing

- For Part 6, PV is sized to net out the building's expected annual kWhs
- A larger PV array can be installed but will not receive additional compliance credit
- For Part 11 compliance, CBECC allows PV array coupled with a 6 kWh battery storage system to be oversized by a factor of up to 1.6
 - The battery enables the increased PV capacity to be used by the utility to meet demand during critical peak periods
 - Promotes self-utilization on peak since PV system is coupled with battery storage



7



Compliance determined by Energy Design Rating

- A target EDR establishes a performance benchmark that the building must meet for compliance
- CBECC-Res software has the capability to calculate EDR scores for EE and PV separately
- Builders can use a combination of envelope energy efficiency features, better appliances, PVs, and other strategies to get to the target EDR
- Target EDR is fully compatible with reach codes. Local jurisdiction can simply identify a lower target EDR

8



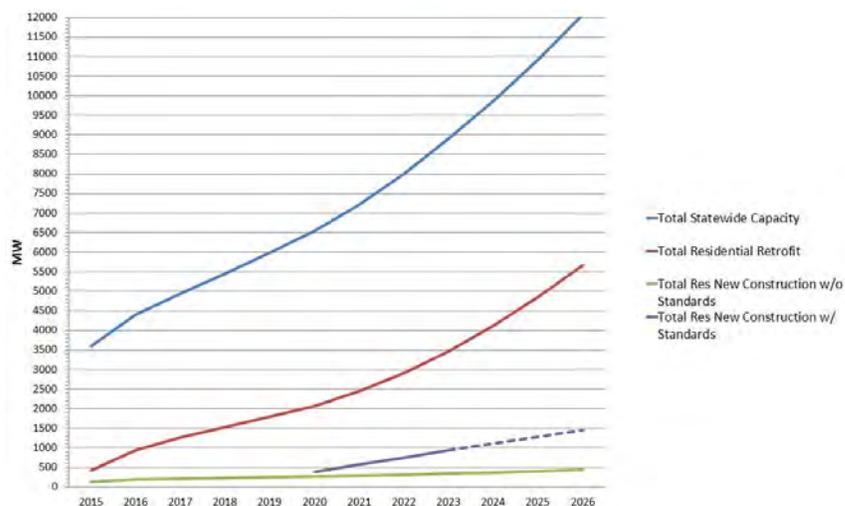
Exceptions to Onsite PV Requirements

- Solar access blocked by shading barriers
- Reduced Requirement for Multi-story homes
- Poor solar orientation in plans approved before 2020
- Commission determination that PVs not cost effective for specific buildings
- Reduced PV size if installed in conjunction with a battery storage system.
- Community Solar

9



Projected Impact of PV Requirement Compared to Other PV Development



10



Electrified Buildings Have Lowest CO2 Emission Levels

2019 Standards result in significant CO2 reduction in buildings

2700 sf prototype, CZ12		Metric Tons of CO2 Emitted/yr
CO2 Impact of Housing Choices		
Mixed Fuel	2000 Compliant Building, No PV	6.5
Mixed Fuel	2016 Compliant Building, No PV	3.26
Mixed Fuel	2019 Standard Design, with 3.1 kW PV	2.29
All-Elect	2019, 3.1 kW PV	1.12
All-Elect	2019, 6 kW PV	0.46

11



Next Steps

- California Building Standards Commission approval Fall 2018
- Effective date of standards January 1, 2020
- Ability to adopt local ordinances available now

12



Questions?

CBECC modeling tool for energy and GHG emissions
available for download:

<http://www.energy.ca.gov/title24/>

California Energy Commission - energy.ca.gov

dave.ashuckian@energy.ca.gov

13



Southern California Association of Governments
900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017
November 1, 2018

To: Community
Economic & Human Development Committee (CEHD)
Transportation Committee (TC)
Energy and Environment Committee (EEC)
From: Grieg Asher, Program Manager I, Sustainability, (213) 236-1869, asher@scag.ca.gov
Subject: 4th California Climate Change Assessment - SCAG Regional Report

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

RECOMMENDED ACTION FOR EEC:
For Information Only – No Action Required

RECOMMENDED ACTION FOR TC AND CEHD:
Receive and File

STRATEGIC PLAN:
This item supports the following Strategic Plan Goal 2: Advance Southern California’s policy interests and planning priorities through regional, statewide, and national engagement and advocacy.

EXECUTIVE SUMMARY:
The State of California has released the Fourth Climate Change Assessment (Fourth Assessment) which provides the scientific foundation for understanding climate-related vulnerability at the local scale and informing adaptation actions. The Fourth Assessment seeks to promote effective and integrated action at the state and local level to safeguard California from climate change. The Fourth Assessment includes research on the SCAG region that was led by University of California Los Angeles (UCLA) researchers and affiliates. Dr. Neil Berg, Associate Director for the Center for Climate Science at the UCLA Institute of the Environment and Sustainability, served as the lead author for the Los Angeles Region report, and SCAG served on the Report’s stakeholder advisory committee. Dr. Berg will brief the Committee on the Fourth Assessment, which summarizes the state of climate change in California, and will specifically focus on findings relevant to the SCAG region.

BACKGROUND:
California has produced periodic assessments on the potential impacts of climate change and reports on potential mitigations and adaptation responses. Required by California Executive Order #S-03-05 signed by Governor Schwarzenegger, these assessments influence legislation and inform policy makers. As a global leader in using, investing in, and advancing research to set proactive climate change policy, California’s climate change assessments provide the scientific foundation for understanding climate-related vulnerability at the local scale and informing adaptation actions. The

assessments directly inform State policies, plans, programs, and guidance to promote effective and integrated action to safeguard California from climate change.

The Fourth Assessment was released in late August 2018, and focused reports were prepared for the Los Angeles and Inland Desert regions. Some key statewide findings include:

- The average annual maximum daily temperature is projected to increase by 5.6 – 8.8 degrees Fahrenheit by 2100.
- Water supply from snowpack is projected to decline by two-thirds by 2050.
- 31 to 67 percent of Southern California beaches may completely erode by 2100 without large-scale human interventions.
- Heat-Health Events (HHEs) will worsen drastically throughout the state; by 2050 heat waves in cities could cause 2-3 times more heat-related deaths, and vulnerable populations will experience the worst of these effects.

This cutting-edge research initiative is comprised of a wide-ranging body of technical reports, including rigorous, comprehensive climate change scenarios at a scale suitable for illuminating regional vulnerabilities and localized adaptation strategies in California; datasets and tools that improve integration of observed and projected knowledge about climate change into decision-making; and recommendations and information to directly inform vulnerability assessments and adaptation strategies for California’s energy sector, water resources and management, oceans and coasts, forests, wildfires, agriculture, biodiversity and habitat, and public health. These technical reports have been distilled into summary reports and a brochure, allowing the public and decision-makers to easily access relevant findings from the Fourth Assessment.

Dr. Neil Berg, Associate Director for the Center for Climate Science at the UCLA Institute of the Environment and Sustainability, will brief the Committee and describe the findings from the Fourth Assessment, which included over 50 technical studies and 9 regionally-focused reports. He will specifically address findings and conclusions applicable to the SCAG region.

FISCAL IMPACT:

No Fiscal Impact. This is not a SCAG funded project.

ATTACHMENT(S):

1. PowerPoint Presentation: 4th Climate Assessment

California's 4th Climate Change Assessment

What Climate Change Means for Greater LA



Dr. Neil Berg
Associate Director, Science
UCLA Center for Climate Science

Write: nberg@ioes.ucla.edu
Tweet: [@Neil_UCLAClim](https://twitter.com/Neil_UCLAClim)



Overview: California's 4th Climate Change Assessment

<http://www.climateassessment.ca.gov/>

- Understand climate-related vulnerability at local scales
- Inform resilience actions, State policies, plans, programs, and guidance
- Promote effective and integrated action to safeguard California from climate change



Statewide Summary Report + special breakout reports on:

- Climate Justice
- Tribal and Indigenous Communities
- California's Ocean and Coast

Overview: California's 4th Climate Change Assessment

<http://www.climateassessment.ca.gov/>

- Understand climate-related vulnerability at local scales
- Inform resilience actions, State policies, plans, programs, and guidance
- Promote effective and integrated action to safeguard California from climate change



9 regional reports:

North Coast, Sierra Nevada, San Francisco Bay Area, San Joaquin Valley, Sacramento Valley, Central Coast, **Los Angeles**, **Inland Desert**, and San Diego

Overview: California's 4th Climate Change Assessment

<http://www.climateassessment.ca.gov/>

- Understand climate-related vulnerability at local scales
- Inform resilience actions, State policies, plans, programs, and guidance
- Promote effective and integrated action to safeguard California from climate change



44 technical reports:

Energy, water, agriculture, coasts, forests, public health, biodiversity, governance, and details on the projections, data, and tools from the Assessment.

Overview: California's 4th Climate Change Assessment

<http://www.climateassessment.ca.gov/>

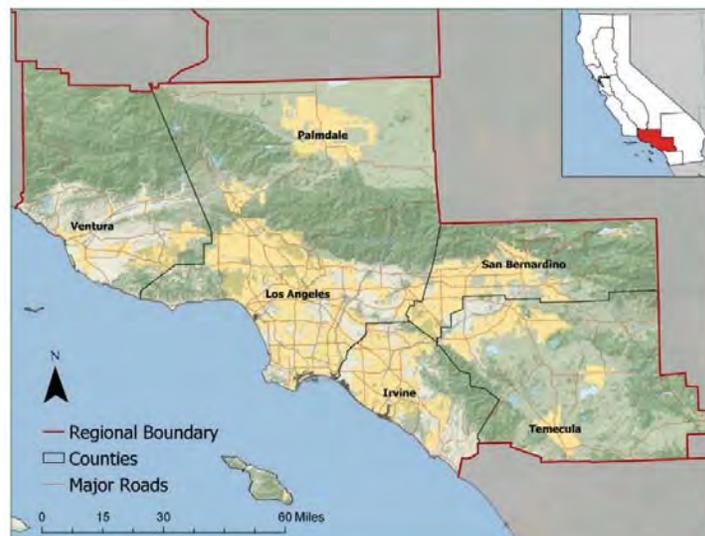
- Understand climate-related vulnerability at local scales
- Inform resilience actions, State policies, plans, programs, and guidance
- Promote effective and integrated action to safeguard California from climate change



6 tools:

1. Cal-Adapt
2. Cal-Heat
3. Coastal Storm Modeling System (CoSMoS)
4. Hazard Exposure Reporting and Analytics (HERA)
5. Adaptation Capability Advancement Toolkit (Adapt-CA)
6. CA Emergency Response Infrastructure Climate Vulnerability (CERA-Climate)

Highlights from the LA Regional Chapter



Los Angeles region topography and boundary definition as a solid red line, which encompasses Los Angeles, Ventura, and Orange Counties, and adjacent urbanized portions of San Bernardino and Riverside Counties.

Highlights from the LA Regional Chapter

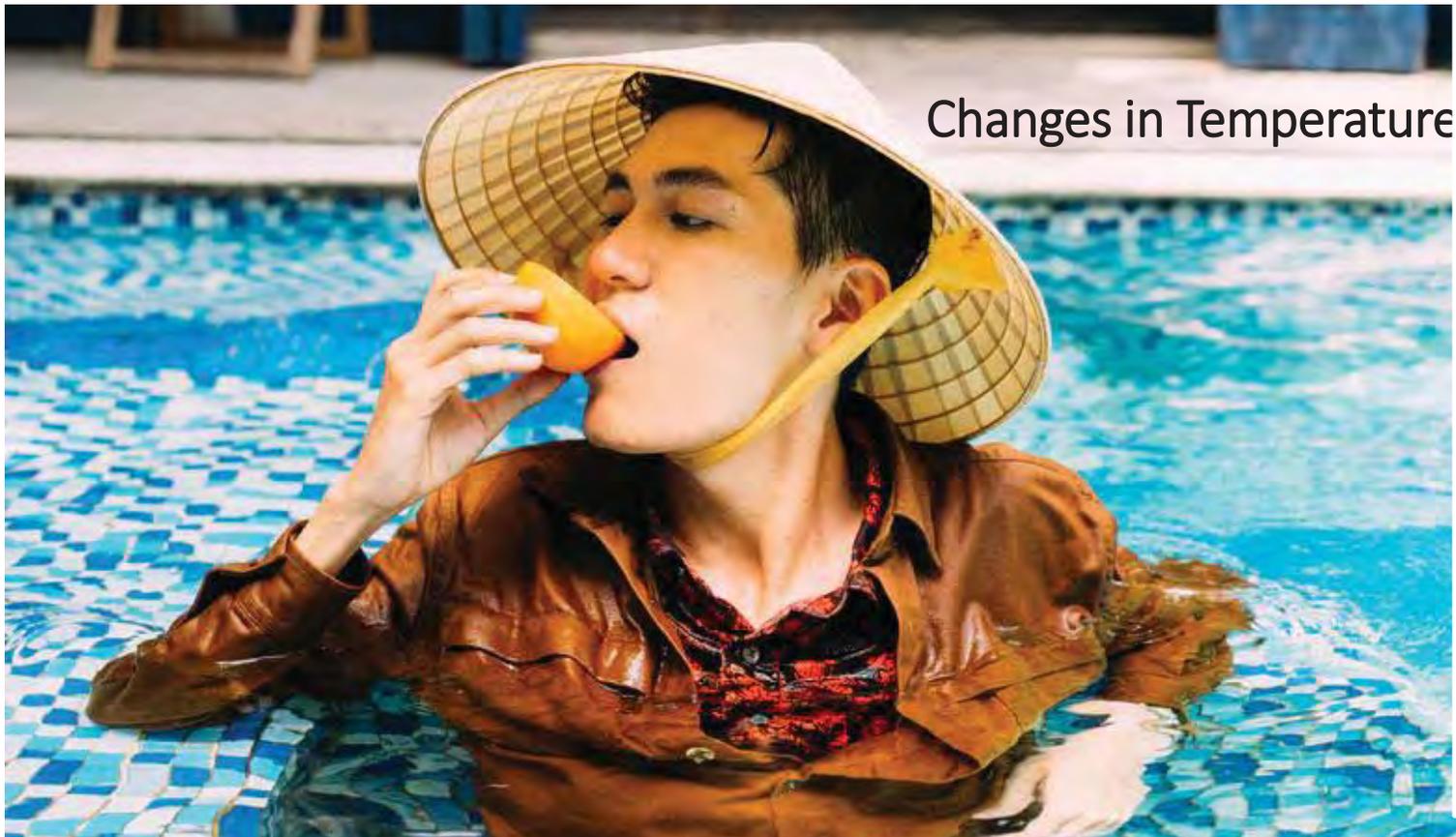
Climate Science	Impacts to Systems
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Highlights from the LA Regional Chapter

Climate Science	Impacts to Systems
<ul style="list-style-type: none">• Temperature• Precipitation• Extreme storms• Santa Ana winds• Sea level rise• Wildfire• Drought• Clouds• Humidity• Air quality	

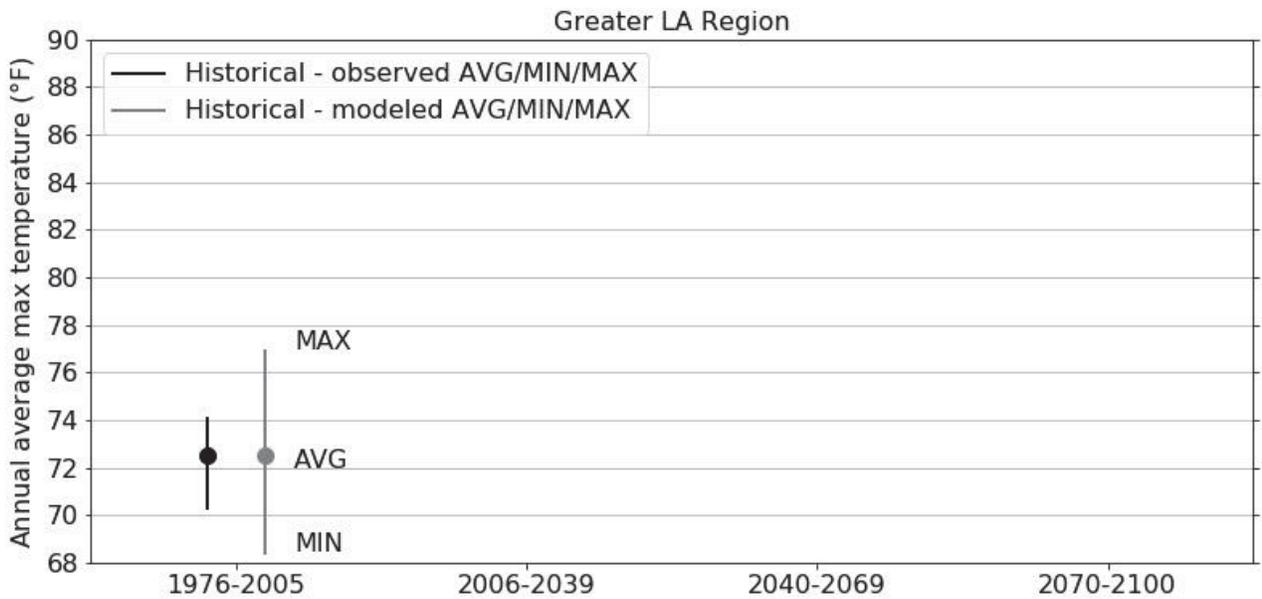
Highlights from the LA Regional Chapter

Climate Science	Impacts to Systems		
<ul style="list-style-type: none"> • Temperature • Precipitation • Extreme storms • Santa Ana winds • Sea level rise • Wildfire • Drought • Clouds • Humidity • Air quality 	Human	Economic	Natural and Managed
	<ul style="list-style-type: none"> • Public Health • Emergency Mgmt. • Env. Justice 	<ul style="list-style-type: none"> • Energy • Transportation • Land Use and Development 	<ul style="list-style-type: none"> • Water • Agriculture • Veg & Flora • Oceans & Coasts

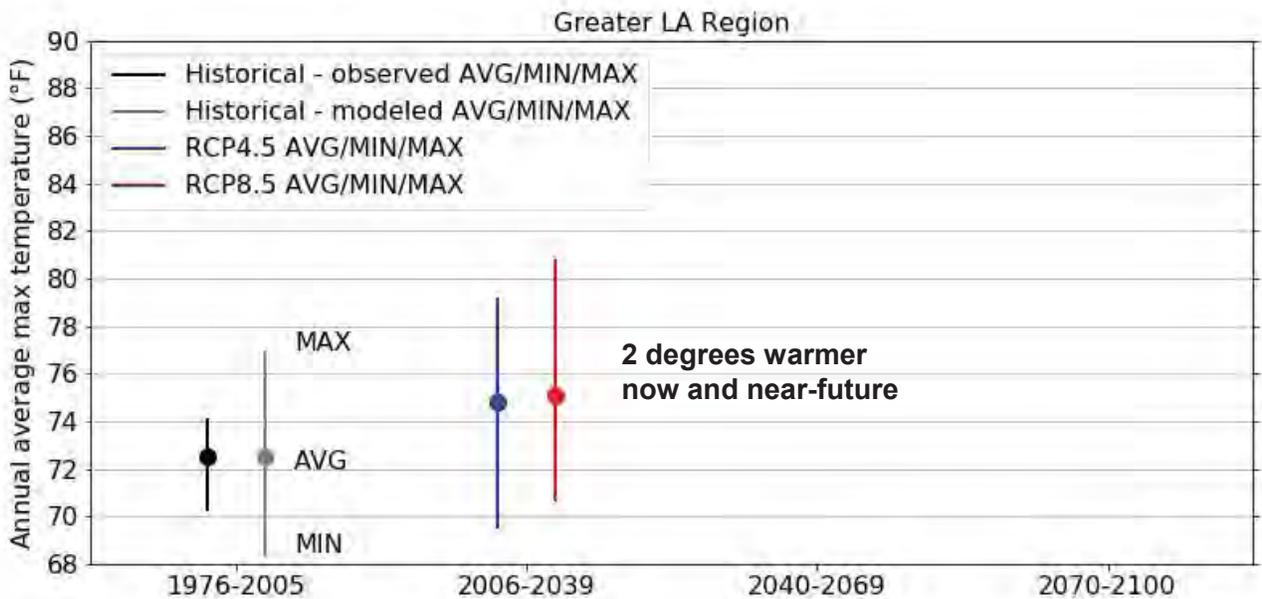


Changes in Temperature

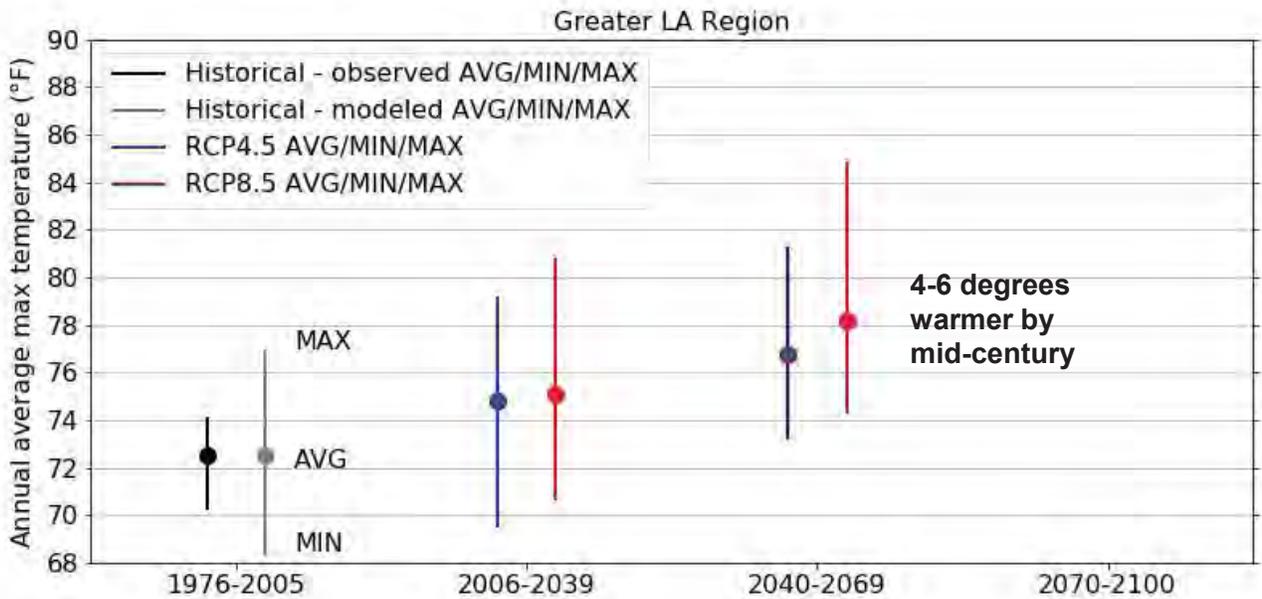
Higher Average Max Temperatures



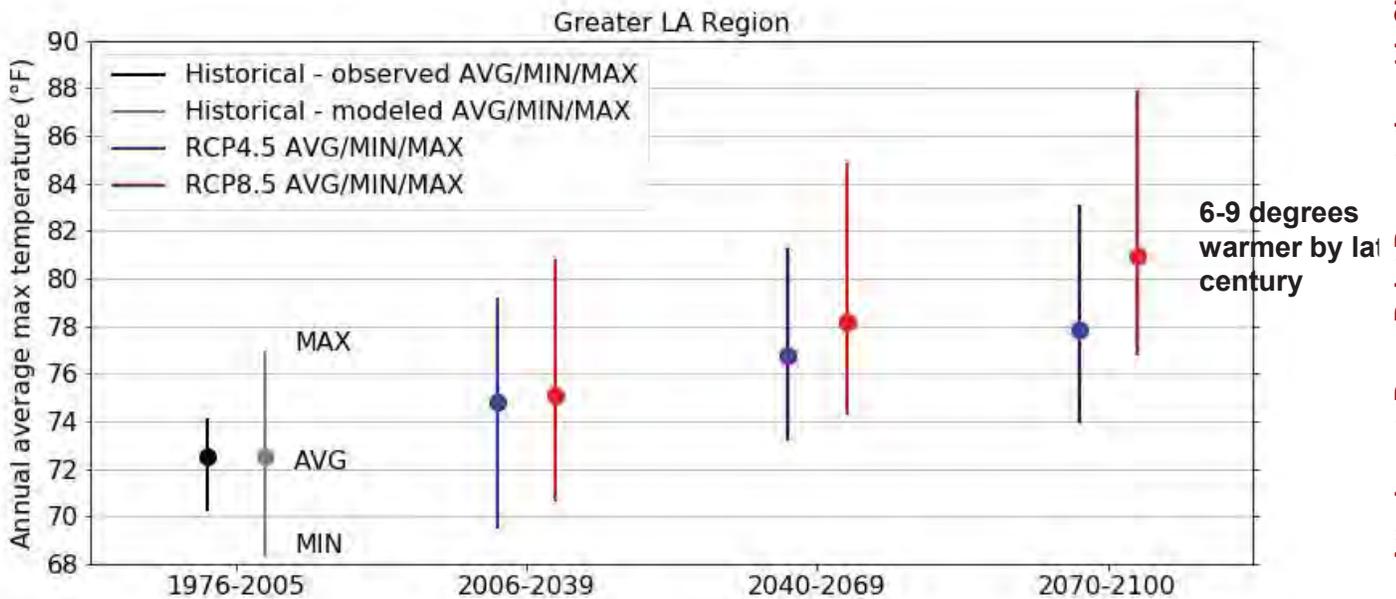
Higher Average Max Temperatures



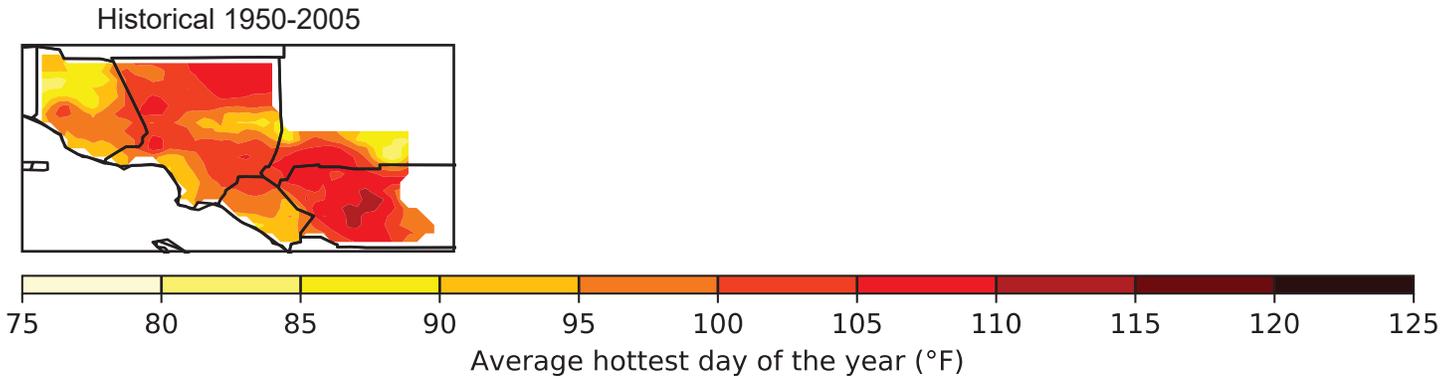
Higher Average Max Temperatures



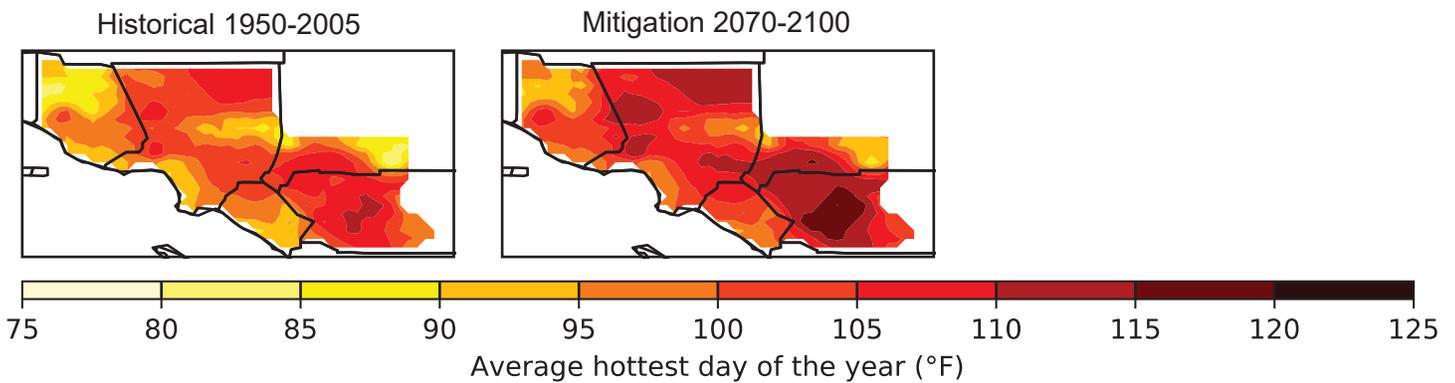
Higher Average Max Temperatures



Even Hotter Hottest Day of the Year

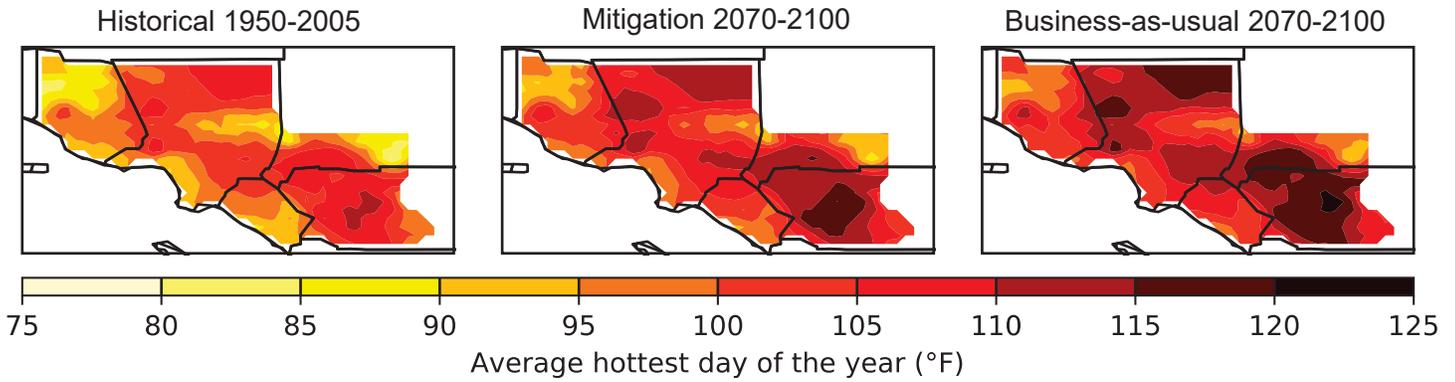


Even Hotter Hottest Day of the Year



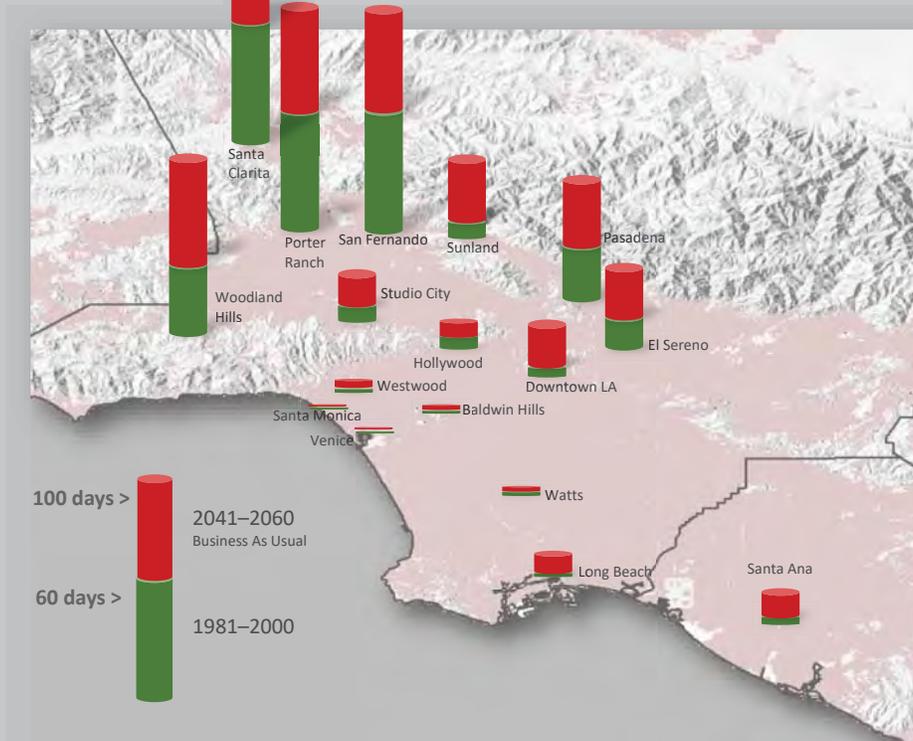
4-8 degrees warmer by late-century

Even Hotter Hottest Day of the Year



5-12 degrees warmer by late-century

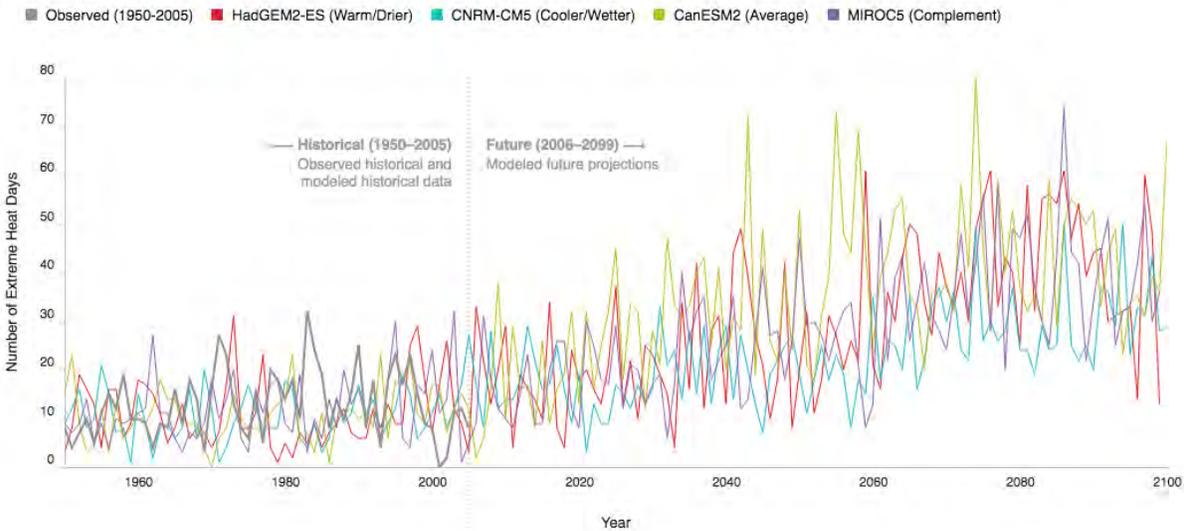
More Extremely Hot Days (>95F)



Extreme heat tools: cal-adapt.org/tools/extreme-heat/

Number of Extreme Heat Days by Year

This chart shows number of days in a year when daily maximum temperature is above the extreme heat threshold of 90 °F. Data is shown for Grid Cell (34.03125, -118.28125) under the RCP 4.5 scenario in which emissions peak around 2040, then decline.

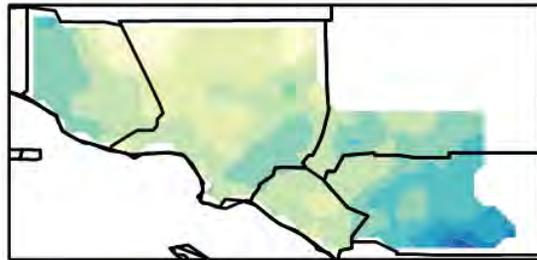


Changes in Precipitation

Even Wetter Wettest Day of the Year

Mitigation 2070-2100

RCP4.5 - Historical

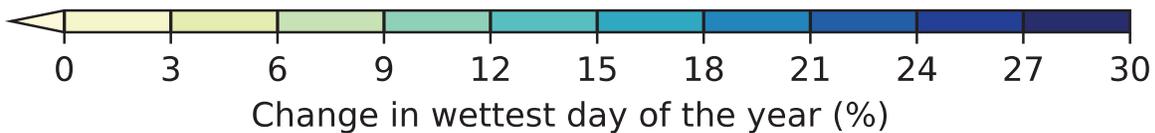
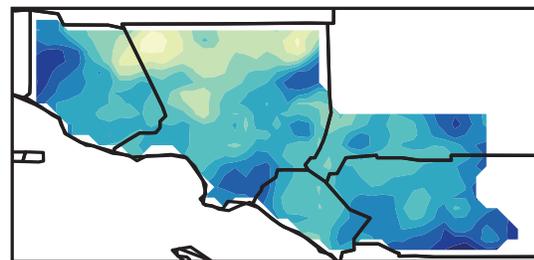
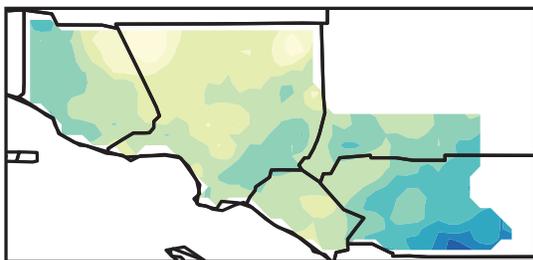


Up to 15% wetter by the late-century

Even Wetter Wettest Day of the Year

Mitigation 2070-2100

Business-as-usual 2070-2100



Up to 30% wetter by the late-century

More Extremely Wet Years like 2016-2017

2016-2017 was an extremely wet year in California.

It produced a magnificent super bloom.

Swain et al. (2018) Increasing Precipitation Volatility in 21st Century California. Nature Climate Change.

<https://www.hcn.org/articles/photos-superbloom-in-california>

More Extremely Wet Years like 2016-2017

2016-2017 was an extremely wet year in California.

These types of years are projected to **double in frequency** by late-century.

Swain et al. (2018) Increasing Precipitation Volatility in 21st Century California. Nature Climate Change.

<https://www.hcn.org/articles/photos-superbloom-in-california>

More Extremely Dry Years like 1976-1977



1976-1977 was an extreme drought year in California.

Economic losses exceeded \$1 billion.

Swain et al. (2018) Increasing Precipitation Volatility in 21st Century California. Nature Climate Change.

<http://framework.latimes.com/2014/06/23/1976-california-drought/>

More Extremely Dry Years like 1976-1977



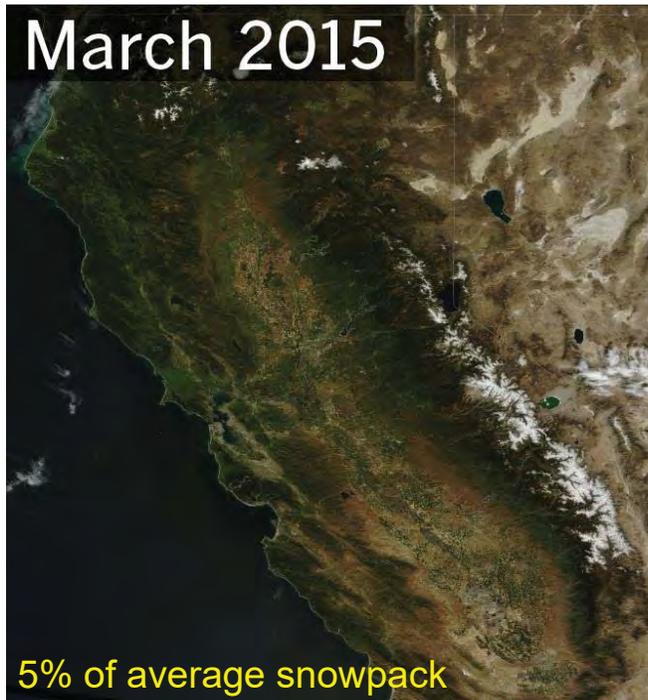
1976-1977 was an extreme drought year in California.

These types of years are also projected to **double in frequency** by late-century.

Swain et al. (2018) Increasing Precipitation Volatility in 21st Century California. Nature Climate Change.

<http://framework.latimes.com/2014/06/23/1976-california-drought/>

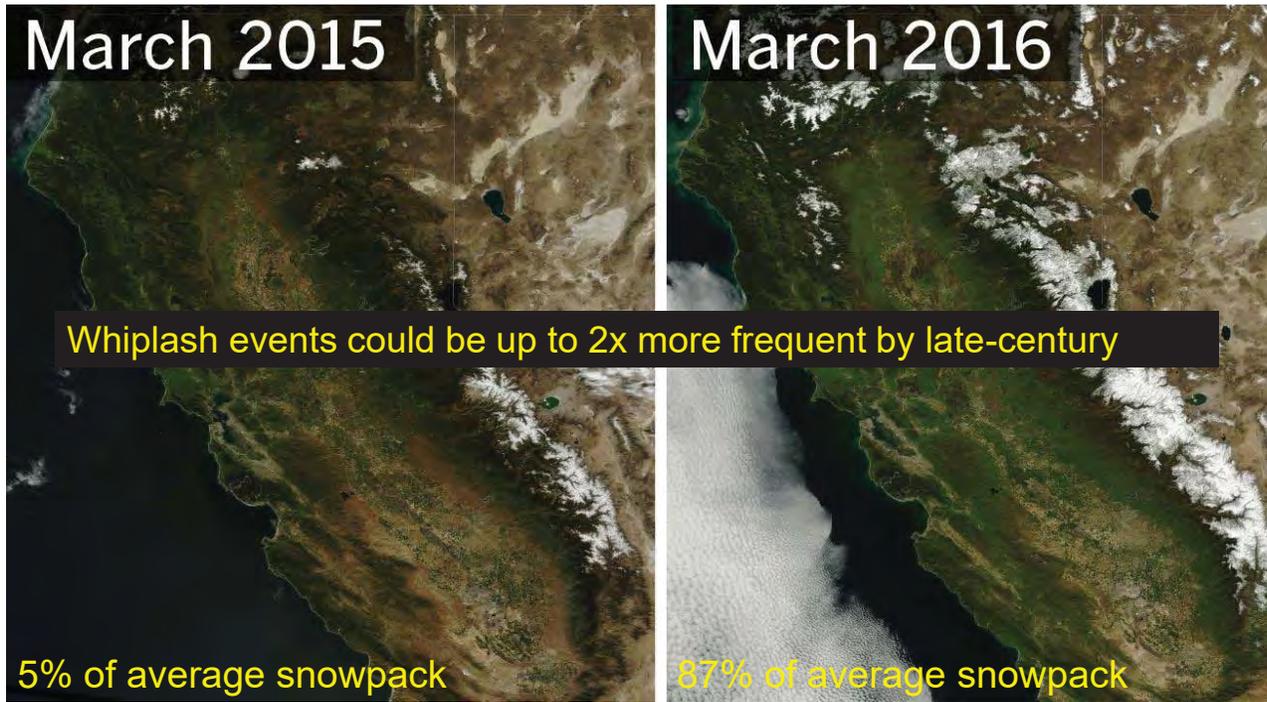
More Extremely Dry to Extremely Wet Years: “whiplash”



More Extremely Dry to Extremely Wet Years: “whiplash”



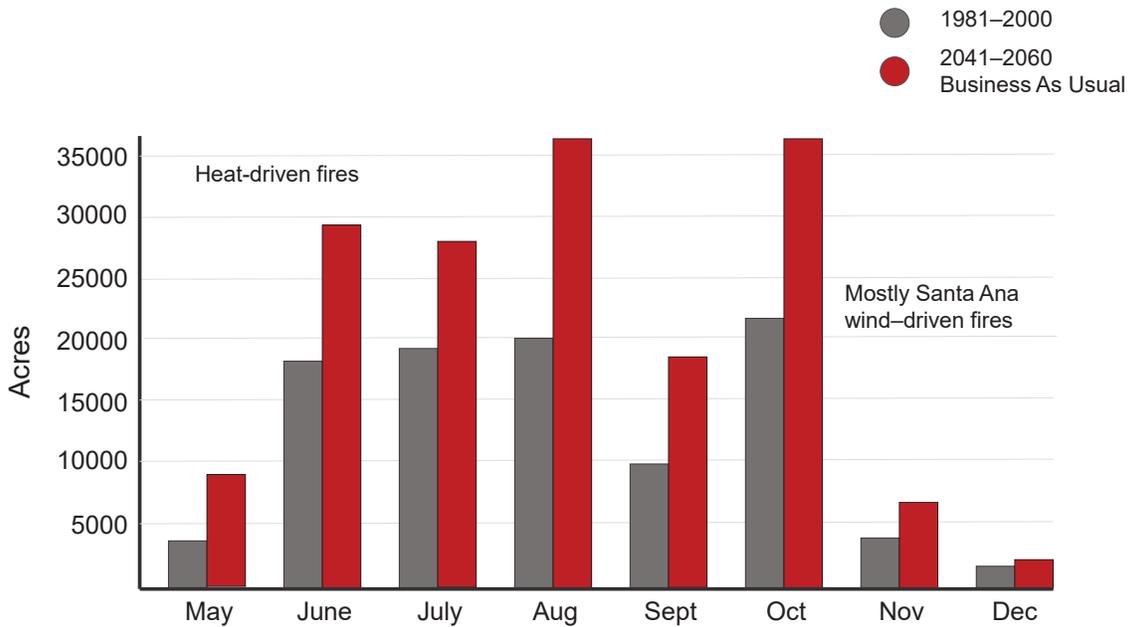
More Extremely Dry to Extremely Wet Years: “whiplash”



Changes in Wildfire

Attachment: PowerPoint Presentation: 4th Climate Assessment (4th California Climate Change Assessment - SCAG Regional Report)

Increased Area of Wildfire



Jin et al. (2015). Identification of two distinct fire regimes in Southern California: implications for economic impact and future change. ERL.

Wildfire tools:
cal-adapt.org/tools/wildfire/

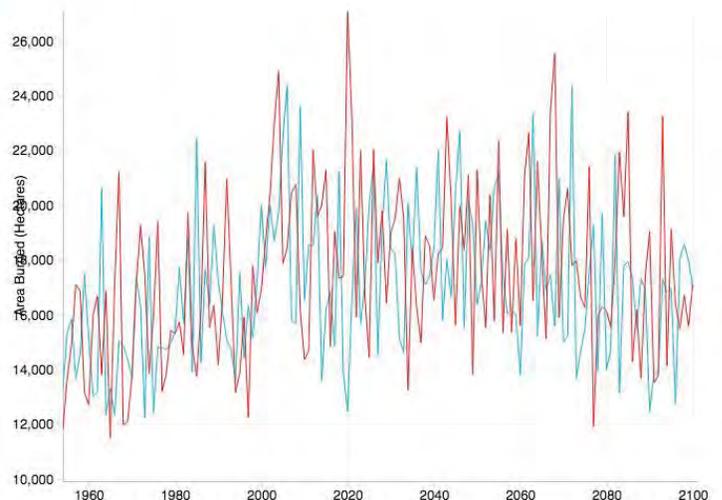
Annual Average of Area Burned

Los Angeles Region

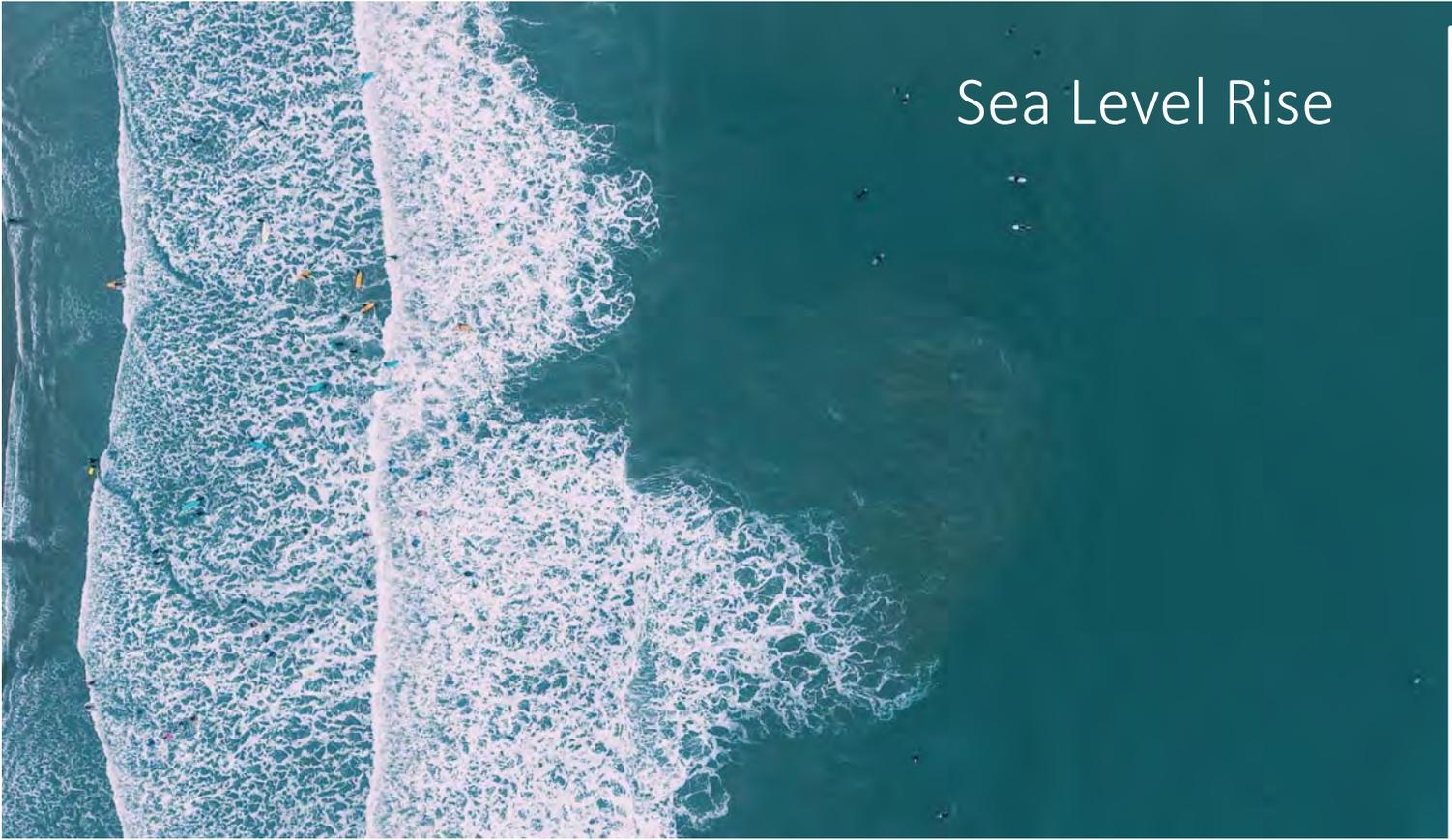
Emissions continue to rise strongly through 2050 and plateau around 2100 (RCP 8.5). High Population Growth Projections.

Modeled Data (2006-2099)

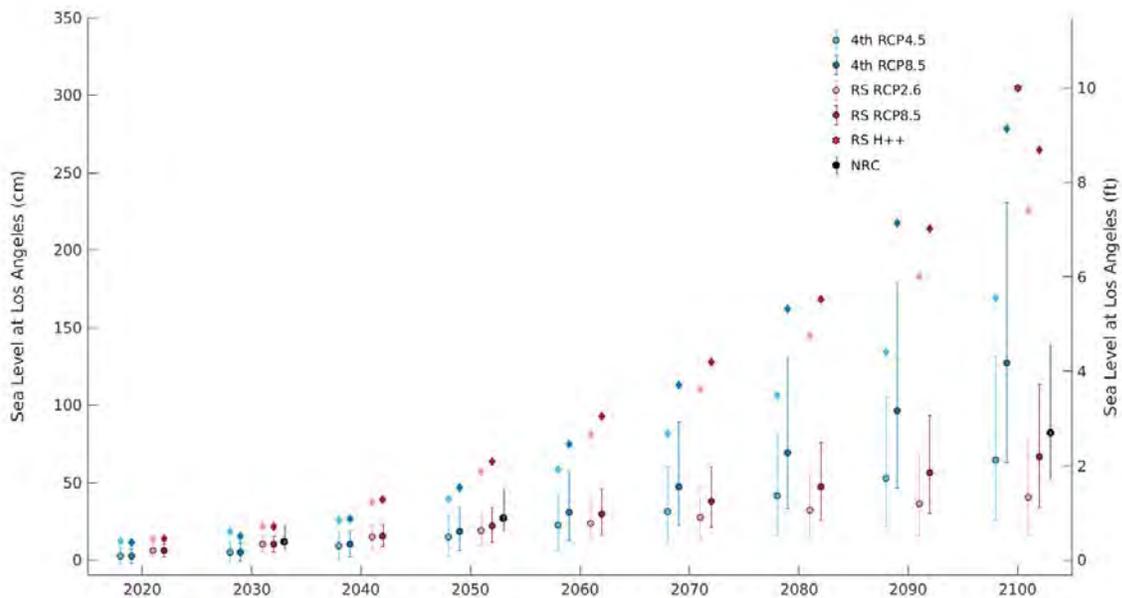
- CNRM-CM5
- HadGEM2-ES



Sea Level Rise



Los Angeles SLR Projections Through 2100



CoSMoS Model and Mapping Tool

<http://data.pointblue.org/apps/ocof/cms/>

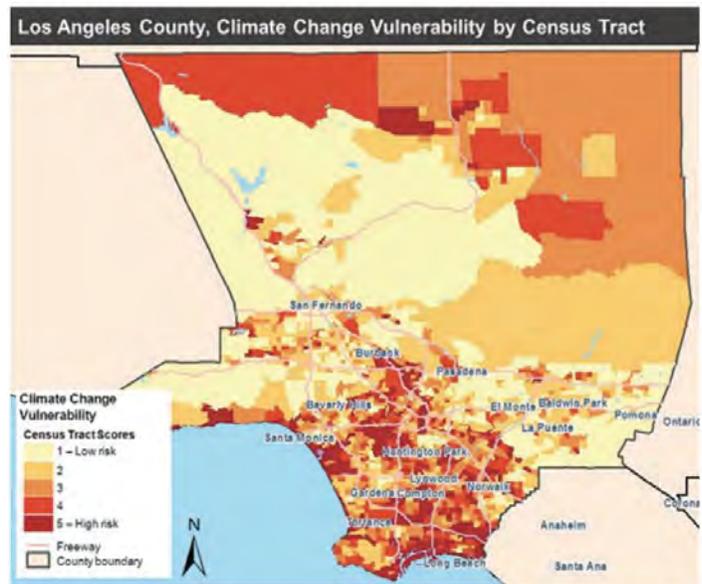
Our Coast Our Future (OCOF) hosts the data visualization tool for different SLR scenarios and storm types for the entire CA coastline.

The image to the right is for ~6 ft SLR + 20-year storm event.



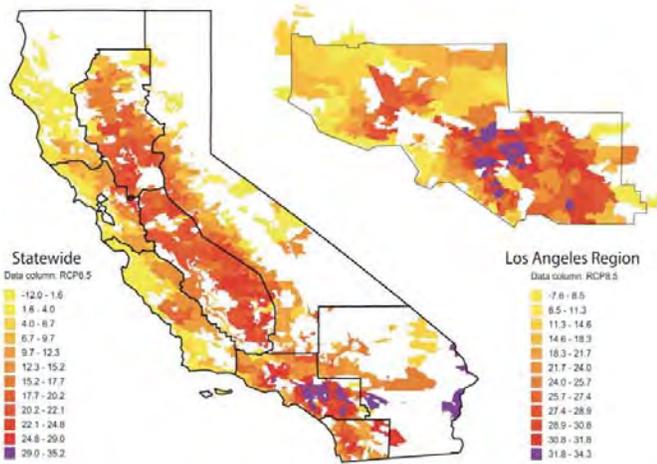
Environmental Justice

Vulnerability map for LA County that considers future climate change.



Distribution of cumulative impact and vulnerability screening scores using the Environmental Justice Screening Method (Sadd et al. 2011) that includes a climate change impacts score. The impact is more concentrated in urban portions of the region. (Map from English, et al, 2013: <https://escholarship.org/uc/item/8h669570>)

Increased Energy Demand



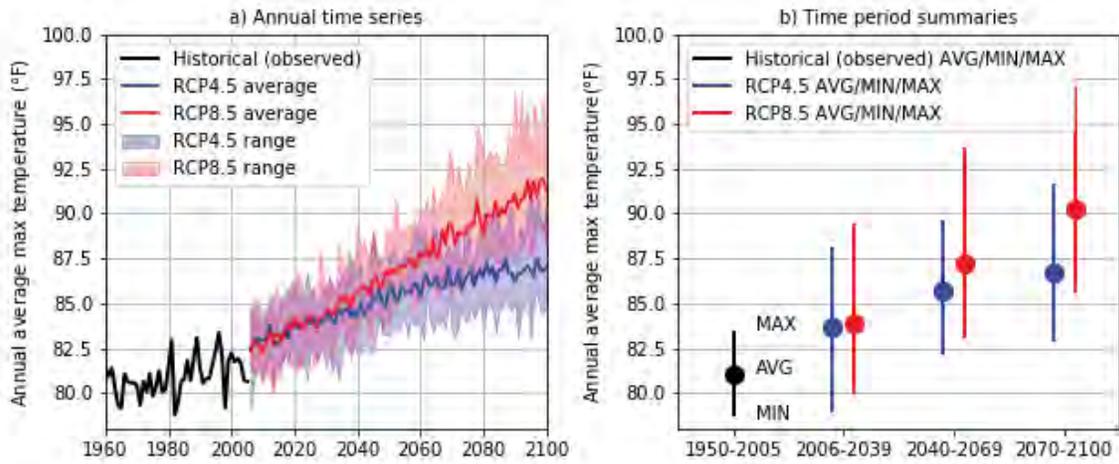
Forecasted percentage increases in total annual electricity consumption by zip code by the year 2100 under RCP8.5 (Auffhammer 2018).

The highest projected increases in electricity demand by 2100 across the entire state are within the LA region.

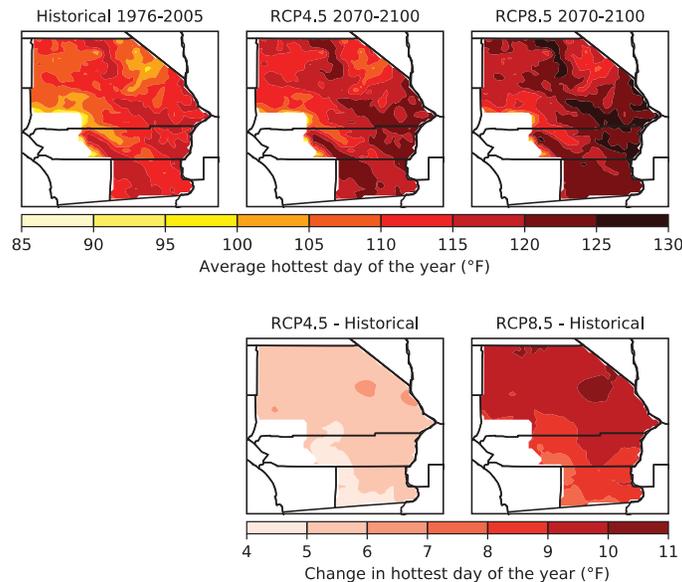
Inland Desert Highlights



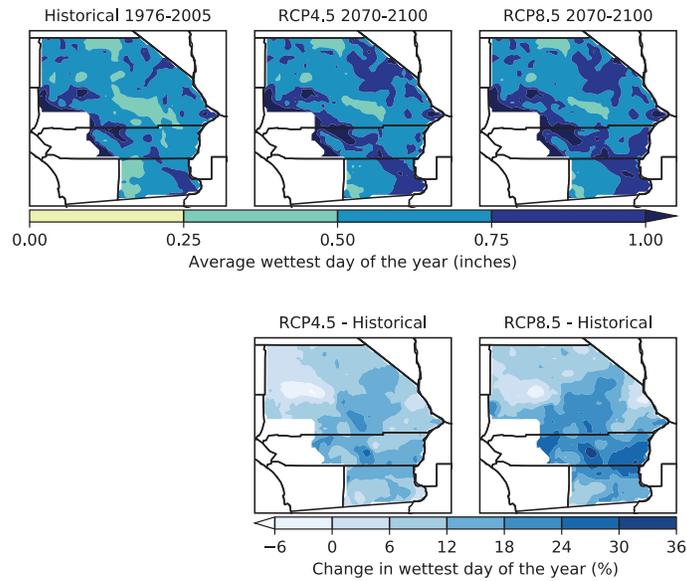
Rising Temperatures Throughout the 21st Century



Even Hotter Hottest Day of the Year



Even Wetter Wettest Day of the Year



Dr. Neil Berg
 Associate Director, Science
 UCLA Center for Climate Science

Write: nberg@ioes.ucla.edu
 Tweet: [@Neil_UCLAClim](https://twitter.com/Neil_UCLAClim)



**UCLA Center for
 Climate Science**

www.ioes.ucla.edu/climate/



Southern California Association of Governments
900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017
November 1, 2018

To: Energy and Environment Committee (EEC)
From: Rongsheng Luo, Program Manager II, Compliance &
Performance Monitoring, (213) 236-1994, LUO@scag.ca.gov
Subject: Status Update on AB 617 Implementation in SCAG Region

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

RECOMMENDED ACTION:

For Information Only – No Action Required

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 2: Advance Southern California’s policy interests and planning priorities through regional, statewide, and national engagement and advocacy.

EXECUTIVE SUMMARY:

On September 27, 2018, the Governing Board of the California Air Resources Board (ARB) approved the AB 617 Community Air Protection Program Blueprint and selected an initial set of ten communities throughout California for air districts to develop community air monitoring plans and/or emissions reduction programs over the next year. David Salardino, Air Resources Supervisor of the ARB Office of Community Air Protection, will present a status update on the AB 617 implementation in the SCAG region.

BACKGROUND:

As reported previously, AB 617 (Garcia, Chapter 136, Statutes of 2017) provides a new community-focused action framework to reduce air pollution and improve public health in communities most impacted by air pollution. Pursuant to AB 617, the California Air Resources Board (ARB) is required to identify communities with the highest exposure burden and develop a Statewide Monitoring Plan and Statewide Reduction Strategy by October 2018. AB 617 also requires that significantly enhanced community-level air monitoring, emissions reporting and mitigation programs be implemented by the ARB and local air districts in California’s most impacted communities.

At the EEC meeting on February 1, 2018, Dr. Philip Fine, Deputy Executive Officer of South Coast Air Quality Management District (SCAQMD), presented the EEC with an overview of the AB 617 requirements and a status update on the implementation of AB 617 in the South Coast Region. Today’s PowerPoint presentation by ARB staff will cover the entire SCAG region and focus on progress made since the February status update.

FISCAL IMPACT:

Work associated with this item is included in the current FY18-19 Overall Work Program (025.SCG0164.01: Air Quality Planning and Conformity).



ATTACHMENT(S):

1. PowerPoint Presentation: Status Update AB 167



Status Update on AB 167 Implementation in SCAG Region

Southern California Association of Governments (SCAG)
Energy and Environment Committee Meeting
November 1, 2018

Building a Community-Focused Framework



PARTNERSHIPS
WITH COMMUNITIES



NEW STATEWIDE
STRATEGIES TO
REDUCE EMISSIONS



TARGETED
COMMUNITY
CLEAN AIR PLANS



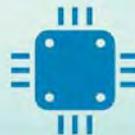
METRICS
TO TRACK &
REPORT PROGRESS



COLLABORATIONS
WITH LAND USE
& TRANSPORTATION
AGENCIES



CLEAN TECHNOLOGY
INCENTIVE INVESTMENTS



EXPANDED
AIR MONITORING



IMPROVED
DATA
ACCESSIBILITY



Engaging with Communities in New Ways

Community Meetings



Consultation Group



Community Tours



Air District Outreach Events



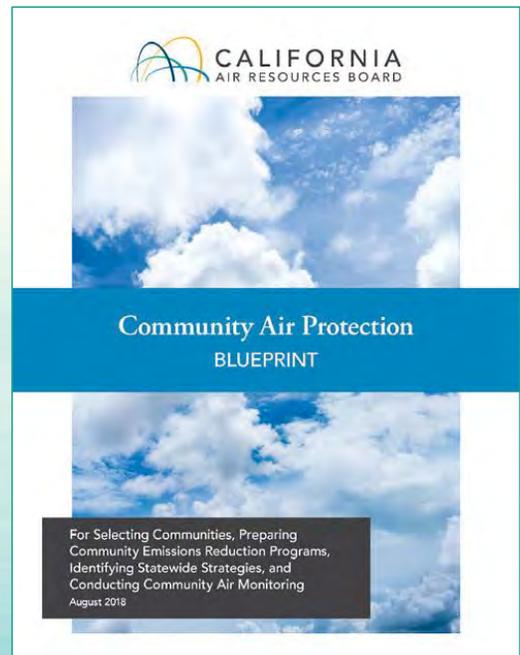
Legislator Town Halls



Program Implementation: **Blueprint**

- ✓ Statewide strategies
- ✓ Requirements for -
 - Public engagement and community partnerships
 - Selecting communities
 - Conducting community air monitoring
 - Developing community emissions reduction programs

<https://ww2.arb.ca.gov/our-work/programs/community-air-protection-program>



Online Resource Center



Investing in Clean Technologies in Burdened Communities

Nearly \$500 million for focused action under AB 617

- Funding for mobile and stationary sources
- Focus on zero-emission technologies
- Reflect community priorities

Over \$1 billion in other complementary CARB incentives

- Low Carbon Transportation, FARMER, Carl Moyer, VW Environmental Mitigation Trust programs



New Regulations for Key Sources Impacting Communities

- Comprehensive portfolio of statewide actions
- Many coming to the Board in next few years
- BARCT – cleaner control technologies



Air Grant Recipients

(highlighted grants in SCAG Region)



Provide support for:

- Community-operated air monitoring
- Technical training and education
- Action plans to reduce local toxic air pollution
- Increasing residents' engagement



Selection of Initial Community for Further Focused Action



Emissions Reduction Programs

- Emissions reduction targets
- Emissions reduction measures
- Implementation schedule
- Enforcement Plan

Monitoring Plans

- Provides air monitoring data to support actions
- Methods and equipment determined based on type of action
- Blueprint provides criteria and guidance
- Air quality data will be transparent and accessible



The set of 10 initial communities serve as statewide models.

CARB expects to learn and use what we learn as air pollution solutions in other communities.



South Coast

- East LA Neighborhoods/
Boyle Heights/West Commerce
- San Bernardino/Muscoy
- Wilmington/West Long Beach/
Carson

Selected for both emissions reduction program and air monitoring.



Imperial

Calexico/El Centro/Heber
Corridor

Selected for both emissions reduction program and air monitoring.



Timeline

September 2018	CARB Governing Board selected communities for action in the first year and sets Program requirements.
October - December 2018	Air districts establish community steering committees for the initial 10 communities
By January 2019	Air districts develop expedited schedules for implementing best available retrofit control technologies, which must be implemented by the end of 2023.
By July 2019	Air districts deploy monitoring in first-year communities selected for community air monitoring.
By October 2019	Air districts adopt programs in first-year communities selected for community emissions reduction programs.
By December 2019	CARB Governing Board considers the selection of additional communities, as deemed appropriate.
By Early 2020 & annually	CARB Governing Board considers air districts' community emissions reduction programs.



**Hundreds of
burdened communities
recommended by
community groups,
air districts, and CARB**



Looking Beyond the First Year

- Ongoing work to implement near-term actions to help communities statewide
- Initial communities will be models for action throughout California
- Support community capacity building
- Begin foundational analysis and inventory work for additional communities



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Contact

- Office of Community Air Protection Email:
CommunityAir@arb.ca.gov or AireComunitario@arb.ca.gov
- David Salardino, Office of Community Air Protection
Manager, State Strategy Section
California Air Resources Board
Phone: (626) 575-6679
Email: david.salardino@arb.ca.gov
- Program Website:
<https://ww2.arb.ca.gov/our-work/programs/community-air-protection-program>



15



Southern California Association of Governments
900 Wilshire Boulevard, Suite 1700, Los Angeles, California 90017
November 1, 2018

To: Community
Economic & Human Development Committee (CEHD)
Energy & Environment Committee (EEC)
Transportation Committee (TC)
From: Mike Jones, Senior Regional Planner, Goods Movement &
Transportation Finance, (213) 236-1978, jonesm@scag.ca.gov
Subject: Transportation Electrification Partnership – Los Angeles
Cleantech Incubator

INTERIM
EXECUTIVE DIRECTOR'S
APPROVAL

RECOMMENDED ACTION:

For Information Only – No Action Required

STRATEGIC PLAN:

This item supports the following Strategic Plan Goal 1: Produce innovative solutions that improve the quality of life for Southern Californians.

EXECUTIVE SUMMARY:

The Los Angeles Cleantech Incubator (LACI) is advancing the Transportation Electrification Partnership, an unprecedented collaboration among regional stakeholders to accelerate transportation electrification and zero emissions goods movement by 2028, coinciding with the 2028 Olympic and Paralympic Games in Los Angeles. LACI represents an alliance among the Office of the Mayor of Los Angeles, Los Angeles area universities and research organizations (i.e., UCLA, USC, Caltech, and Jet Propulsion Laboratory), the Los Angeles County Economic Development Corporation (LAEDC), the Los Angeles Business Council, the Los Angeles Area Chamber of Commerce, Los Angeles Department of Water and Power (LADWP) and the CRA/LA. As an organization, LACI aims to advance the commercialization of clean technologies and accelerate the development of innovative products by independent entrepreneurs. Through its 2028 Zero Emissions Roadmap, LACI intends to move the region toward transportation to achieve key goals including meeting statewide greenhouse gas (GHG) emissions targets, improving regional air quality, and ensuring that an autonomous future is shared and electric.

BACKGROUND:

On September 13, 2017, Los Angeles Mayor Garcetti signed the host city contract with the International Olympic Committee which fully committed the City of Los Angeles to serving as the host of the 2028 Olympic and Paralympic Games. Building on Los Angeles’ historic success in hosting the Games in 1932 and 1984, and following recent precedent set by London, England during the 2012 Olympic and Paralympic Games, Los Angeles intends to rely heavily on existing venues and event infrastructure. However, a significantly larger regional population and expected attendance will drive Los Angeles, and the region itself, to plan for the additional critical transportation necessary infrastructure to accommodate the Games. While this will be a challenge, it also offers the opportunity for the region to expedite sorely needed projects. The region is already pursuing

strategies to realize these opportunities, such as the “Twenty-Eight by 28” initiative being considered by the Los Angeles County Metropolitan Transportation Authority (Metro). Recognizing this opportunity, and consistent with recent approved legislation such as California Senate Bill 100 (SB 100) which sets an aspirational goal of California getting its power from 100 percent renewable sources by 2045, Los Angeles Cleantech Incubator (LACI) has set a goal of reducing greenhouse gas (GHG) emissions and air pollution by 25 percent by 2028 in the region through development of the 2028 Zero Emissions Roadmap (Roadmap).

LACI is a non-profit organization funded by the CRA/LA and the Los Angeles Department of Water and Power (LADWP). In partnership with the city’s exceptional educational and research organizations – University of California Los Angeles (UCLA), University of Southern California (USC), California Institute of Technology (Caltech), and NASA Jet Propulsion Laboratory (JPL) – LACI helps accelerate the commercialization of clean technologies and accelerate new products developed by independent entrepreneurs. LACI is a result of the Clean Tech Los Angeles (CTLA) alliance among the Office of the Mayor of Los Angeles, Los Angeles area universities and research organizations (i.e., UCLA, USC, Caltech, and Jet Propulsion Laboratory), the Los Angeles County Economic Development Corporation (LAEDC), the Los Angeles Business Council, the Los Angeles Area Chamber of Commerce, Los Angeles Department of Water and Power (LADWP) and the CRA/LA.

With a focus on overall mobility, LACI’s Roadmap operates within the framework of four guiding principles: 1) ensuring that people and goods can move emissions-free throughout the region when they arrive for the Games, 2) eliminating anxiety related to range distances by ensuring sufficient charging infrastructure for vehicles, 3) enhancing quality of life through improved car quality, jobs, and access to mobility, and 4) growing the regional economy through transportation electrification. The Roadmap recognizes a future grid infrastructure that is dependent on renewable energy and able to meet the increased demands from vehicle electrification. Achieving this end goal will ensure that the transition to electrified passenger cars and trucks is frictionless for consumers and businesses, and integrates emerging technologies. To achieve this, the Roadmap seeks to expand electrical grid infrastructure in a way that ensures resilience and promotes electric vehicle adoption at scale. The initiative focuses strongly on the movement of people and goods.

For goods movement, the Roadmap acknowledges that medium and heavy-duty long-haul and drayage trucks comprise the second largest categories of GHG emissions in the transportation sector, and goods movement represents the region’s largest source of air pollution. This category represents a streamlined effort to map out the future of zero emissions goods movement in the region. To improve freight efficiency and the transition of goods movement modes to zero-emissions technologies, the Roadmap aims to ensure that infrastructure planning and investments support modern zero-emission freight corridors in a way that increases competitiveness and future economic growth for the region and state. Some of the identified goals include:

- Goods movement charging infrastructure: 10,000-100,000 zero emission chargers installed for goods movement;
- Heavy-duty drayage trucks: 10-40% of drayage trucks on the road are zero emissions;
- Heavy-duty long-haul trucks: 5-25% of trucks on the road are zero emission vehicles;

- Medium-duty delivery trucks: 25-50% of medium-duty delivery trucks are electric;
- Marine shipping and freight terminals: Begin electrification of shipping and freight rail in the region; and
- Aerial: Ensure local delivery drones are electric.

The movement of people is also a significant focus of the Roadmap. Passenger vehicles including cars, SUVs, large pickups, and vans are the largest emitting group of transportation vehicles and represent the greatest opportunity for transportation electrification. The Roadmap also addresses public buses and light rail transportation, along with first mile and last mile solutions that increase transit ridership as well as encourage walking and biking. The Roadmap endeavors to ensure: 1) equal access to zero-emission transportation options that are cost-competitive, safe, and convenient, 2) an autonomous future is electric and does not increase vehicle-miles-traveled (VMT), and 3) that first and last mile electric options complement the region's public transit network. Some of the identified goals include:

- Charging infrastructure: 60,000 to 130,000 public chargers installed;
- Light-duty private vehicles: 20-45% of all light-duty private vehicles on the road are electric;
- Shared cars: 50-100% of shared cars are electric;
- Local transit: 80-100% of Metro and LADOT buses on the road, and 100% of new buses being introduced are electric;
- Commuter rail: Begin planning for electrification of one or more commuter rail lines with key partners;
- Light electric vehicles (LEVs): All disadvantaged communities with a walk score of less than 65 have LEV hubs to reduce single-occupancy vehicle (SOV) trips; and
- Aerial: Ensure short-haul and VTOL transit is electric.

FISCAL IMPACT:

No Fiscal Impact.

ATTACHMENT(S):

1. LACI TEP Deck



Introducing the Transportation Electrification Partnership

LACI is convening an unprecedented collaboration to accelerate transportation electrification and zero emissions goods movement by the 2028 Olympics.



Attachment: LACI TEP Deck (Transportation Electrification Partnership – Los Angeles Cleantech Incubator)

Time is of the essence, and Los Angeles is uniquely positioned to launch the LACI Partnership for Transportation Electrification



LA Challenges

Los Angeles is the nation's center for transportation innovation

The Los Angeles region has the worst traffic in the U.S. (104 hours/year stuck in traffic) and ranks high in traffic fatalities

Transportation is the greatest source of California's greenhouse gas emissions and L.A.'s worsening air quality

L.A. boasts western hemisphere's busiest shipping ports (2), Int'l airports (3), major OEM presence

LA Leadership

Measure M \$120B committed for transportation in the next 40 years.

Electric vehicles and related technologies (e.g., batteries) are rapidly advancing

Motivation and interest from key regulators, utilities, transit agencies, and private sector (e.g., OEMs)

L.A. is a world leader in mobility, climate action, data, smart cities, and clean technologies

Welcoming the world for the 2028 Olympic Games

Transportation is LACI's top priority. As the front door of innovation in LA, it has the expertise and credibility to convene the critical leaders



Why LACI?

LACI is under new leadership, putting an emphasis on transportation, energy and smart cities.

LACI is the #1 Business and #3 Cleantech Incubator Globally

LACI has more than 200 active participants in the transportation sector working group

Key Partners are already convened around zero emissions transportation (e.g., CARB, utilities) with initial funding commitments in place

LACI's campus has a robust infrastructure, & is exploring expansion for a dedicated mobility lab

LACI currently hosts 10 transportation start ups, just completed first global mobility start up search

Together we will lead the convergence toward a zero emission transportation future



With a focus on delivering results now and on the road to 2028, the Partnership will accelerate progress toward key goals including:

- Statewide greenhouse gas emissions
- Regional air quality improvement
- Ensuring the autonomous future is shared & electric

LACI's partnership will launch in 2018 with an agenda that accelerates transportation electrification and zero emissions goods movement



- 1 **Unprecedented Collaboration**
Convening key leadership for transportation electrification & statewide zero emissions goods movement
- 2 **Ambitious 2028 Roadmap**
Shaping goals to accelerate results for shared mobility and zero emissions transportation
- 3 **Identify Needed Market Signals and Rules**
LACI will work with policy makers needed to create change at scale
- 4 **Pilots and Showcases**
LACI will work with partners to identify catalytic pilots, demonstration showcases and testbeds for electrification & shared mobility
- 5 **Startups & Workforce Development**
LACI will host technology competitions & incubate start-ups, while helping develop the needed workforce.

Attachment: LACI TEP Deck (Transportation Electrification Partnership – Los Angeles Cleantech Incubator)

LACI will convene and catalyze the unprecedented collaboration required to accelerate regional & statewide progress

Leadership Group

- LACI CEO, Convener
- LA Mayor's Office
- CARB Chair
- SCE President
- LADWP GM
- PG&E Sr. VP
- CEO, MTA

Advisory Group

- Key mobility/transit executives
- OEM CEOs
- Academic partners
- Autonomous vehicles leaders
- Key regional & national partners
- Statewide Ports/Goods movement partners
- Disadvantaged community representatives



The Zero Emissions 2028 Roadmap will set ambitious targets to accelerate shared goals for mobility in SoCal and zero emissions transportation statewide



- ▶ **Establish Strong Baseline**
Starting from a strong baseline of existing regional emissions, transportation & statewide goods movement policies, plans (e.g. Sustainable City Plan, CARB scoping plan, etc.)
- ▶ **Identify Gaps**
In funding, technology, infrastructure, rules, & market signals, etc.
- ▶ **Set Ambitious yet Achievable Goals & Prioritize Needs**
Setting shared goals for policies, projects, & initiatives needed to accelerate emissions reductions, regional transportation, & statewide goods movement
- ▶ **Imagine the Future**
Scenarios for LA's land use future with shared, electric AVs
- ▶ **Integrate Partners**
Working groups & key partners (e.g., Metro's Office of Extraordinary Innovation, AQMD, etc.)

The partnership will accelerate zero emissions goods movement statewide to improve air quality and reduce greenhouse gas (GHG) emissions



Goods movement is the single greatest source of air emissions in greater Los Angeles, and is a major contributor to GHGs statewide. The partnership will:

- ▶ Work with CARB to release an RFI for the 100 EV trucks pilot called for in the Joint Clean Air Action Plan.
- ▶ Conduct a study of the I-5 Corridor, including the infrastructure needs for electric heavy duty trucks, technology gaps, anticipated air quality benefits, and other measures.
- ▶ Create a zero emissions goods movement pilot along the I-5 Corridor (e.g., along the Grapevine).
- ▶ Partner with the Climate Mayors to advance their Green Ports Collaborative with West Coast port cities.

The partnership will set ambitious goals in the 2028 Roadmap while launching pilots, programs, and a platform to deliver results



Deliver Goods movement pilots & study

by developing & releasing RFI for Ports 100 EV Truck Pilot in collaboration with CARB, & conduct I-5 infrastructure assessment with statewide partners



Launch catalytic Passenger mobility pilots

in a high profile location (e.g., Arts District, Expo Park) to educate public and decision makers on convergence of shared mobility, electrification, and autonomy



Host LACI "Collider" of representatives

from every level of government; serve as one-stop shop to collaborate and expedite demos and pilots with private sector companies



Develop platform for Data & autonomous technology testbeds

to measure progress (eg., GHGs, traffic, air pollution, safety) and allow real-time testing of technology



LACI will host technology competitions & incubate start-ups while providing workforce development & innovation tools



Transportation Electrification

Zero emission EV & charging technologies
Vehicle-to-grid integration (e.g., connectivity, telematics, autonomy)
Infrastructure electrification planning & coordination
Airport and aviation related solutions



Electric and Active Shared Mobility

Electric autonomous vehicle development
Last mile/first mile solutions for active and electric mobility (e.g., biking, electric scooters, etc)
IoT & FinTech solutions including for the unbanked to access solutions



Zero Emissions Goods Movement

Truck technology
Cargo movement efficiency
Electric aircraft



Workforce Development & DACs

New technology training & education, career prep
Partnerships w/ private, public agencies, community stakeholders
New models for bringing benefits to disadvantaged communities

Attachment: LACI TEP Deck (Transportation Electrification Partnership – Los Angeles Cleantech Incubator)

Our inaugural 2018
 action plan and 10
 year timetable
 demonstrate the
 partnerships near-
 and long-term
 ambitions



2018 ACTION PLAN

MAY	<ul style="list-style-type: none"> Announce goals and launch LACI Transportation Electrification Partnership
SUMMER	<ul style="list-style-type: none"> Continue '28 ZE Road Map partner and advisory group Launch mobility technology & start up competition Release RFI for EV trucks Identify additional funding and resource partners
FALL	<ul style="list-style-type: none"> Unveil 2028 ZE Roadmap Global Transportation Summit
WINTER	<ul style="list-style-type: none"> Announce start up competition winners First pilot launch

10 YEAR TIMETABLE

ANNOUNCE YEAR 1	DEVELOP & TEST YEAR 2 TO 6	DELIVER YEAR 7 TO 10
<ul style="list-style-type: none"> See 2018 Action Plan 	<ul style="list-style-type: none"> Lessons from pilots Policy development Pilots & Test Bed(s) Start up convening LACI Expansion/Mobility Lab 	<ul style="list-style-type: none"> Unveil tech expansion Continue partnerships 2028 Games Previews Showcase Successes