

South Bay Cities Council of Governments

July 27, 2017

TO: SBCCOG Board of Directors

FROM: Jacki Bacharach, SBCCOG Executive Director
Kim Fuentes, Deputy Executive Director

SUBJECT: Environmental Activities Report – June 2017

Adherence to Strategic Plan:

Goal A: Environment, Transportation, and Economic Development. Facilitate, implement, and/or educate members and others about environmental, transportation, and economic development programs that benefit the South Bay.

I. PROGRAMS - TECHNOLOGY, PLANNING, & RESEARCH

Climate Action Planning

Strategic Growth Council (SGC) Grant

The following reports on the five greenhouse reduction measures that are under development as part of the SGC grant – land use, transportation, waste, greening, and energy generation/storage. Once these sections are completed, cities will receive a final Climate Action Plan (CAP) for their council approval before the end of 2017. In addition, this work includes developing a sub-regional CAP. Activities completed for the month of June include:

- Land Use/Transportation: SBCCOG staff and consultants continue to collect city input data for emissions calculations. El Segundo, Rancho Palos Verdes, Rolling Hills, and Lawndale have completed their forms and emissions are being calculated for these cities. The task 7 scope of work and concept piece have been drafted and LARC has been contacted for discussion on the Regional forum. City EV registration analysis is continuing along with the Regional GHG emission calculations.
- Energy Generation & Storage and Waste & Greening: SBCCOG staff has received staff-sign off from all cities. SBCCOG staff has drafted the chapters with the approved strategies.
- CAP Co-benefits: A co-benefit spreadsheet has been developed for SBCCOG staff to compare co-benefits of GHG reduction measures with other CAPs. Co-benefits will be listed for each of the sections in the final city CAPs and can help leverage the CAPs for cities to obtain future implementation funding.

Energy Efficiency

Energy Efficiency Partnership Program – Southern California Edison (SCE)

2017 Energy Saving Goal: 1,245,812 kWh

2017 Demand Reduction Goal: 78 kW

2017 Status: 404,068 kWh; **Goal met** 104 kW

PIPELINE TOTALS	Estimated kWh savings	Estimated Therm Savings	Estimated Incentive (\$)
	5,048,924	15,535	\$1,253,858

The SBCCOG staff along with the energy engineer continue to have regular conference calls every few weeks with the cities of Carson, Inglewood, and Torrance to review project status. In addition, staff continues to work with other cities' staff as needed to help facilitate energy efficiency projects.

Elected officials can continue to help the SBCCOG to meet Edison goals by discussing projects with their staff, supporting project delivery, and notifying the SBCCOG staff of upcoming projects.

The following is a list of “pipeline” projects specific to electricity, but include co-benefits of gas savings where applicable. Each city’s Energy Leader Partnership (ELP) program status is also included.

City	Current ELP Tier Level	Energy Efficiency Measures (EEMs)	Estimated kWh savings	Estimated Therm Savings (co-benefit)	Estimated Incentive (\$)
Carson	Gold	Exterior Lighting	96,907	n/a	\$17,907
		Lighting/Pool Boiler/Water Heater/VFD	28,578	4,500	\$10,644
		Pool Pump VFD	51,758	n/a	\$11,646
		Exterior & Interior Lighting	688,002	n/a	\$108,758
		LED Streetlights	588,596	n/a	\$117,719
Gardena	Gold	Exterior & Interior Lighting	78,125	n/a	\$13,281
		Exterior & Interior Lighting	284,534	n/a	\$24,626
Hermosa Beach	Gold	Exterior & Interior Lighting	316,925	n/a	\$44,798
		Pier Exterior Lighting	22,677	n/a	\$3,175
Inglewood	Gold	LED Steetlights	852,689	n/a	\$450,079
		Pump VFD	54,812	n/a	\$10,281
		Elevator Motor-Generator Set	121,900	n/a	\$26,208
		Chiller VFD/HVAC Controls	291,870	11,035	\$115,022
Manhattan Beach	Platinum	Exterior LED Lighting	62,825	n/a	\$16,335
Rancho Palos Verdes	Gold	LED Streetlights	38,269	n/a	\$6,506
Redondo Beach	Gold	LED Lighting	138,618	n/a	\$23,565
Torrance	Gold	LED Lighting	837,954	n/a	\$164,370
		Exterior & Interior LED Lighting	125,300	n/a	\$21,301
		Interior LED Lighting	26,718	n/a	\$10,482
		VFD & Pump Motor	172,003	n/a	\$29,240
		LED Streetlights	224,676	n/a	\$38,195

Energy Efficiency Partnership Program – Southern California Gas Company (SCG)

2017 Goal: 10,000 therms

2017 Status: 7,980 therms

2017 Incentives Received: \$10,926

The following is a list of gas specific “pipeline” projects along with their status:

Agency	Energy Efficiency Project	Therm Savings	Incentive	Status
Palos Verdes USD	Pool Cover	8,540	\$10,248	Planning
City of Inglewood	Replace 4x boilers	TBD*	TBD*	Planning
City of Carson	Replace 3x boilers	TBD*	TBD*	Planning
Torrance USD	New Pool, Pool heater maybe pool cover	TBD*	TBD*	Active
Marymount California University	Solar Thermal Heating	TBD*	TBD*	Planning
City of Carson	Tankless Water Heater Replacement	965	\$456	Planning
Inglewood USD	Boiler Replacement	TBD*	TBD*	Planning
Wiseburn USD	New high school with two new meters	TBD*	TBD*	Planning
	Total Therms Identified	9,505	\$10,704	

** Will be identified in the planning and utility verification processes.*

Renewable South Bay

Renewable South Bay activities (solar outreach to the community as well as working with cities to obtain solar permit information):

- Renewable South Bay Working Group Kick-off Meeting occurred on June 21st.
- SBCCOG staff has collected 2016 solar permit data from 10 cities to date (El Segundo, Gardena, Hawthorne, Hermosa Beach, Lomita, Manhattan Beach, Rancho Palos Verdes, Redondo Beach, Rolling Hills, and Rolling Hills Estates).
- HERO information was presented and provided at the “Making Your Home Healthier and More Comfortable the Energy and Water Efficiency Way” Workshop, part of the South Bay Adult School.

Green Building Challenge

The Green Building Challenge (GBC) focuses on activities for business that reduce energy use, water consumption, and waste while maximizing the use of incentives and rebates. The GBC started as a pilot program funded by Edison and the SoCalGas. Additional sponsors were added to help support the program including West Basin Municipal Water District and Golden State Water.

Recent program accomplishments: SBCCOG staff has completed 10 ASHRAE Level 1 audits for businesses, with one scheduled for July 7, 2017. The audit will also include CB&I, a SoCalGas Company vendor/contractor. In June, SBCCOG staff met with five of the 10 businesses to present the audit reports. An additional “business walk” with Hawthorne Council Member Olivia Valentine is planned in mid-July.

Standings by city: Torrance (35), Lawndale (26), Redondo Beach (16), El Segundo (15), Gardena (15), Hawthorne (15), Carson (11), Inglewood (10), Manhattan Beach (8), Palos Verdes Estates (7), Rancho Palos Verdes (7), Hermosa Beach (5), Rolling Hills Estates (4), Lomita (3), Lennox (2), and Los Angeles County – Community of Westmont (1). Total of 180 businesses.

HERO – PACE: SBCCOG promoted PACE financing for homeowners throughout the month of June.

The spreadsheet below covers the activity from each South Bay members’ jurisdiction since the launch date through May 31, 2017. Proceeds from HERO for 2017 Q1 = \$1,763.82. Proceeds for 2017 Q2 are expected

in August. Total since program start - \$23,407.74. Payments to SBCCOG are based on HERO programs that are completed in the South Bay.



California HERO Activity Report
 South Bay Cities Council of Governments
 Launch Date through May 31, 2017

Rectangular Ship

Program Activity through May 31, 2017

Member	Launch Date	Eligible Housing Units*	Total Applications Received	Applications Approved	Approved Amount	Funded Projects	Funded Amount	Jobs Created***	Type of Products			Solar kW Installed	Annual kWh Saved	Annual CO2 Reduced (Tons)
									Energy	Water	Renewable			
Carson	5/23/14	21,375	1,612	1,076	\$73,456,783	610	\$15,795,183	135	1,037	57	154	349	3,732,511	916
El Segundo	5/23/14	4,209	46	38	\$6,385,951	22	\$590,518	5	27	4	8	18	141,518	35
Gardena	5/23/14	12,360	571	387	\$25,953,752	206	\$5,088,954	43	329	17	32	63	978,724	238
Hawthorne	5/23/14	11,621	442	320	\$24,920,497	180	\$4,066,302	35	276	8	30	60	872,530	214
Hermosa Beach	5/23/14	6,473	50	39	\$8,259,091	17	\$347,251	3	20	0	6	15	84,694	22
Inglewood	5/23/14	19,038	1,144	776	\$52,604,567	424	\$10,927,411	93	696	40	46	105	1,980,022	481
Lawndale	5/23/14	5,262	116	79	\$5,791,032	41	\$314,608	8	68	5	8	19	211,368	53
Lomita	5/23/14	4,606	91	77	\$7,317,855	37	\$852,080	7	56	6	10	32	293,434	71
Manhattan Beach	5/28/15	12,403	81	72	\$16,377,749	34	\$1,017,389	9	49	1	20	70	360,309	92
Palos Verdes Estates	5/28/15	5,115	33	30	\$6,562,522	10	\$527,780	5	16	3	4	11	78,276	20
Rancho Palos Verdes	5/23/14	14,759	193	171	\$27,930,485	79	\$2,083,448	18	116	5	16	59	561,485	137
Redondo Beach	3/24/15	20,292	172	142	\$18,822,843	73	\$1,461,396	12	109	3	16	33	407,733	100
Rolling Hills	5/23/14	698	6	6	\$1,631,678	2	\$119,637	1	2	0	0	0	995	0
Rolling Hills Estates	5/23/14	3,090	37	33	\$6,201,004	18	\$580,512	5	24	2	6	20	152,922	38
Torrance	5/23/14	37,899	644	536	\$57,427,001	293	\$6,796,052	58	415	32	90	219	1,730,209	431
Total		179,200	5,238	3,782	\$ 339,642,870	2,052	\$ 51,168,520	437	3,240	183	446	1,073	11,586,729	2,847

* Eligible housing units based off Total Single Family Homes minus 5 units or more from the Department of Finance City/County Population and Housing Estimates, 1/1/2013.
 *** 1 job for every \$117,000 invested.

YGRENE – PACE

Just as we have an agreement with HERO for the SBCCOG to receive funding for a small percentage of their activities in the South Bay in return for promoting PACE, the SBCCOG has a similar arrangement with Ygrene. Ygrene reported approved projects totaling \$6,290,789.75 for 2016 and payment to the SBCCOG of \$3,145.39 based on our agreement (0.05%). Thus far, proceeds for 2017 = \$422.71 for Q1. City breakdown by project listed below:

Activity through April 30, 2017 and May 31, 2017.

2017 April														
Project Type		Residential							Project Type					
District	Launch Date	# Apps	Eligible Amount	# Approvals	Approved Amount	# Completed Contract	Completed Contract Amount	Jobs Created	Energy	Water	Renewable	Solar MW Installed	Lifetime kWh Saved	Lifetime CO2 Reduced
Carson	10/6/2015	19	\$1,223,947	15	\$1,865,426	9	\$220,391	3	7	1	1	0.01	1,495,521	264
El Segundo	12/15/2015	-	-	-	-	-	-	0	0	0	0	0	0	0
Gardena	1/12/2016	7	\$743,642	6	\$990,943	4	\$92,615	1	1	2	1	0.01	628,464	111
Hawthorne	10/13/2015	3	\$328,943	3	\$499,849	0	\$0	0	0	0	0	0	0	0
Lomita	8/26/2015	0	\$0	0	\$99,015	1	\$56,625	1	0	0	1	0	384,243	68
Redondo Beach	1/19/2016	-	-	-	-	-	-	0	0	0	0	0	0	0
Rolling Hills	10/13/2015	-	-	-	-	-	-	0	0	0	0	0	0	0
Torrance	10/13/2015	3	\$248,960	2	\$248,960	0	\$0	0	0	0	0	0	0	0
Totals		29	\$2,296,531.95	24	\$3,455,232.28	14	\$369,631.44	5	8	3	3	0.02	2,508,228	443
2017 May														
Project Type		Residential							Project Type					
District	Launch Date	# Apps	Eligible Amount	# Approvals	Approved Amount	# Completed Contract	Completed Contract Amount	Jobs Created	Energy	Water	Renewable	Solar MW Installed	Lifetime kWh Saved	Lifetime CO2 Reduced
Carson	10/6/2015	36	\$2,717,886	28	\$3,423,845	14	\$390,577	6	11	2	1	0.02	2,650,360	469
El Segundo	12/15/2015	0	\$0	0	\$148,810	0	\$0	0	0	0	0	0	0	0
Gardena	1/12/2016	4	\$373,700	4	\$673,064	4	\$144,250	2	4	0	0	0	978,845	173
Hawthorne	10/13/2015	7	\$611,541	7	\$822,450	5	\$130,308	2	5	0	0	0	562,931	156
Lomita	8/26/2015	-	-	-	-	-	-	0	0	0	0	0	0	0
Redondo Beach	1/19/2016	3	\$427,542	3	\$427,542	0	\$0	0	0	0	0	0	0	0
Rolling Hills	10/13/2015	-	-	-	-	-	-	0	0	0	0	0	0	0
Torrance	10/13/2015	5	\$299,515	4	\$299,515	1	\$11,199	0	1	0	0	0	75,994	13
Totals		55	\$4,430,183.65	46	\$5,795,226.89	24	\$676,334.00	10	21	2	1	0.02	4,268,130	811

Water Conservation

West Basin Municipal Water District Programs (West Basin) Contract year is Sept. 1, 2016 through Aug. 31, 2017

Task 2. Support for Workshops & Events increase in the number of educational classes.

California Friendly Landscape Trainings (CFLT), Hands-on-Workshops (HOW), and Turf Removal (TR) classes

- New contract goals: minimum of 12 and a maximum of 24
 - Status of goals: 11 completed; 4 additional classes have been scheduled July through August

Greywater Workshops

- Contract goals: 5 workshops (1 in each Director's division)
 - Status of goals: 5 completed

Rain Barrel Giveaway

- Contract goals: 5
 - Status of goals: 7 completed

Task 3. Water Reliability Program

- New contract goals: schedule up to 6 Water Reliability related presentations. SBCCOG staff continues to work with West Basin staff to schedule presentations. Staff participates in a weekly Water Reliability conference call with West Basin staff.
 - Status of goals: 2 have been scheduled
- Contract goal: collect 300 support cards
 - Status of goals: 24 collected in June; total collected for contract year: 263

Task 4. Cash for Kitchens

- Contract goals: target up to 75 institutional facilities with food service and/or kitchen operations on-site, with an emphasis on school districts. SBCCOG staff met with Councilmember Jim Osborne in June to discuss CFK program outreach walks and future opportunities for the Lawndale Sheriff's Department and school district facilities. SBCCOG staff will join West Basin MWD for a brief tour of the Food Service Technology Center in Downey and training for our surveyors to better identify efficient kitchen appliances we encounter during C4K audits on July 10. SBCCOG staff and West Basin staff went to Pancho's Tacos (Redondo Beach), Chili's Restaurant (Carson), and Tacos El Unico (Los Angeles) along with West Basin Directors for a brief certificate presentation ceremony for their efforts to save water by participating in the Cash for Kitchens Staff Training Program.
- Audits conducted for commercial kitchens (13) and follow-up visits (2). SBCCOG staff will schedule and conduct site surveys to identify opportunities for water-cooled ice machines (to be replaced with air-cooled ice machines); West Basin will hire a vendor to install water saving devices.

Car Wash Program

Contract goal: Maintain a current list of car washes in the South Bay. Re-enroll current car wash (5) companies that are participating in the program.

- Status of goal: Preparing list and 5 car washes re-enrolled

The Car Wash program goals were also revised by West Basin and SBCCOG staff will no longer be enrolling car washes in West Basin's Car Wash coupon program per West Basin's direction.

SBCCOG staff will instead assist West Basin in maintaining a list of car wash programs in the South Bay and remind community event attendees to NOT wash their cars at home.

Torrance Water

Torrance held a California Friendly Landscape Training in June. SBCCOG staff worked with Torrance staff to develop and finalize a new Scope of Work and PO for 7/1/17-6/30/18 contract year.

MWD Caucus Meeting

The June meeting included a presentation about the statewide conservation plan and MWD's support for the plan. MWD is setting its priorities in line with the state's plan. The three themes of the plan include: using water more wisely, eliminating water waste, and strengthening local drought resilience.

Sanitation Districts of LA County (LACSD)

Contract goals: Schedule 5 Sanitation Districts-related presentations to be completed by December 31, 2017

- Status of goals: 2 presentations have been completed; 1 scheduled at the South Bay Adult School in September

SBCCOG staff and LACSD staff will meet in early July at the Joint Water Pollution Control Plant (JWPCP) in Carson to discuss the Clearwater Program Tunnel Project - a comprehensive evaluation of LACSD's sewer system that serves over 5 million people in the Los Angeles basin. It was determined that a new tunnel is needed to convey treated wastewater from the JWPCP in Carson to Royal Palms Beach, where it would connect to the existing ocean outfalls. SBCCOG staff continues to work with LACSD staff in identifying homeowners' associations and neighborhood councils in San Pedro for presentations related to the Clearwater Program Tunnel Project. LACSD staff will present at the July meeting of the IWG.

Los Angeles Department of Water and Power (LADWP) Contract year is April 1, 2017-December 31, 2017

Contract goals:

- 6-10 targeted special exhibit events
 - Status of goals: 2 completed; 1 scheduled in July (Port of LA Lobster Festival)
- 1 training for SBCCOG Volunteers on LADWP programs
 - Status of goals: completed (6/1/17)
- 4-6 commercial kitchens to be identified for water assessments and conservation training
 - Status of goals: SBCCOG staff met with Wilmington Chamber to identify restaurants for potential water assessments.

Transportation

Vanpool Program (Contract period Feb. 1, 2013 – Nov. 30, 2018)

Contract goals: 72 outreach events; 18 information/formation meetings

- Status of goals: 153 outreach events; 7 information/formation meetings

In June, collateral material was distributed at 11 SBCCOG outreach events. SBCCOG staff worked with the City of Torrance to host a formation meeting. SBCCOG staff met once with Green Commuter to discuss strategies and tactics to assist with their Zero Emission Vehicle (ZEV) vanpool program; additionally, SBCCOG staff met with Metro to discuss additional outreach efforts – including L3, CSUDH and Harbor UCLA Medical Center. A vanpool formation meeting was also held at the City of Torrance.

Metro Express Lanes (MEL) (Contract period Aug. 1, 2015 – Jul. 31, 2017)

Contract goal: 30 outreach events; 2 presentations (This goal is dependent upon the availability of the mobile van).

- Status of goal: **Goal met** 192 community events and 12 presentations of the MEL Promotional Marketing have been completed. In addition, 17 SBESC e-newsletter articles have been facilitated by SBCCOG staff.

SBCCOG continues to send multiple invitations and notices to Metro staff about future South Bay MEL events that would be of value. SBCCOG staff continues work towards promoting MEL through the Smart Mobility (Travel Pal) Program which would encourage parking attendees of the San Pedro Lobster Festival (July 14th) to use the Express Lanes while parking at a remote site for an Event Shuttle.

Travel Pal – Smart Mobility Tool (Contract period Aug. 1, 2015 – Feb. 28, 2018)

Statistics are from May 2016 - June 2017: 759 Registered Users; 11 Sub-Networks; 678 Trips Logged; 1,421 People have “Used” Travel Pal – at least once; 2,349 total “Sessions” – actively engaging in the Travel Pal; 60% of all sessions are estimated as being “New Visitors”.

Over the Memorial Day Holiday, Travel Pal was used successfully to facilitate transportation messaging for off-site parking and transportation to the Hermosa Beach Fiesta Days. Analytics indicated a spike in activity both in terms of new users to the platform and sessions they conducted just prior and through the event period. From May 23rd through May 31st, 275 new users experienced Travel Pal while conducting 330 sessions; peak use was on May 28th when 75 new users linked to the Travel Pal home page.

SBCCOG staff and consultant (Urban Trans) continue to develop the uses of Travel Pal. For the month of June staff worked with:

- The producers of the San Pedro Lobster Festival to incorporate Travel Pal into the event’s transportation messaging and parking mitigation efforts.
- Manhattan Beach Parks and Recreation to incorporate Travel Pal into the Manhattan Beach Volley Ball Tournament’s transportation and travel messaging.
- The Redondo Beach Chamber of Commerce to coordinate the purchase of a Travel Pal ad for distribution to New South Bay Residents. Distribution of the circular will begin in July and run each month through the end of the calendar year. The database for the circular will be made available to all other SBCCOG programs.
- Met with the David Kissinger from the South Bay Association of Realtors. Planning activities began to include:
 - Promotion of Travel Pal through their organization’s flyers and media channels (to new home owners as well as realtor members)
 - Presentation of Travel Pal to their membership as well as their “Breakfast with the Mayor” event in Hermosa Beach on July 20th.

SBCCOG and consultant also continued outreach and marketing efforts to engage the following South Bay venues/event programming:

- Supporting transportation messaging efforts for:
 - The Norris Theater’s summer/fall season
 - The South Bay Summer concert series
 - Special events at the El Segundo Automobile Museum

II. MARKETING, OUTREACH, & IMPLEMENTATION

Workshops, Trainings & Exchanges

The following chart lists an overview of all registration events held in June 2017:

Event Date	Event Name	No. Attended/No. of RSVPs	Marketing Info. (how did they hear about the Workshop)	Staff Lead
6/2/17	Rainwater/Greywater Workshop - Inglewood	19/37	Email: 23; Flyer: 4; Friend or Family: 4; Local Publication: 2; Social Media: 2; Website: 2	AB
6/3/17	CFLT - Torrance	27/78	Email: 62; Flyer: 5; Friend or Family: 1; Local Publication: 2; Social Media: 1; Website: 5; Other: 2	ML
6/10/17	Rainwater/Greywater Workshop – Redondo Beach	18/86	Email: 65; Flyer: 1; Friend or Family: 3; Local Publication: 3; Social media: 2; Website: 11; Other: 1	JZL
6/24/17	Rain Barrel Distribution – El Segundo (350 barrels distributed to 207 households)	207/307	Email: 232; Flyer: 3; Friend or Family: 38; Local Publication: 3; Social Media: 17; Website: 7; Other: 7	GF, AB
5/23/17	“Making Your Home Healthier and More Comfortable the Energy and Water Efficiency Way” Workshop	9/21	Email: 18; Friend or Family: 2; Social Media: 1	GF

Outreach Events

- 9 community events in June; 5 scheduled for July
- 1 presentation/workshop in June; 1 Presentation scheduled for July
- 1 business event in June

Calendar year-to-date through June 2017:

- 31 community events
- 3 business events
- 2 employee events
- 7 presentations/workshops

Media

Social Media

- SBESC -- Totals for Social Media
 - Twitter: 493 followers total, 1,604 impressions* month of June
 - Facebook: 660 likes total, 2,185 impressions month of June
 - LinkedIn: 109 followers total, 324 impressions month of June

Top Tweet earned 340 impressions

FREE Making Your Home Healthier Workshop in @citymb: Tue, June 27th
conta.cc/2sMca0W #SouthBay
#EnergyEfficiency #waterconservation

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- SBCCOG -- Totals for Social Media (SBCCOG)
 - Twitter: 73 followers total, 263 impressions* month of June
 - Facebook: 29 likes total, 235 impressions month of June

Top Tweet earned 129 impressions

Read about the Fiber-Optic Master Plan for the #**SouthBay** that we collaborated on w/**@SouthBayWIB**: ow.ly/B4ID30cn1gj #**broadband**

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**Impressions: the number of times a post has been viewed*

Press Releases/Press Interviews/Articles

“Join in the Fun, Comradery and Meaningful Work of a South Bay Environmental Services Center Volunteer – Recruiting Now!” Submitted to The Volunteer Center to be printed in the Daily Breeze

Earned Print Media

“South Bay Travel Pal,” Redondo Beach Chamber Newsletter, June 15, 2017

“Why is El Segundo a Smart Move w/ GBC mention,” El Segundo Business Guide, June 23, 2017

“Healthier Home Workshop,” Daily Breeze, June 25, 2017

“Lomita Founder’s Day Flyer w/SBESC Photo,” City of Lomita Newsletter, June 2017

“SBCCOG Announces Solar Program, Renewable South Bay,” City of Hawthorne Newsletter, Summer 2017

“SBCCOG Announces Solar Program,” City of Rancho Palos Verdes Newsletter, Summer 2017

“If you’re homeless, we can help,” City of Redondo Beach Newsletter, Summer 2017

“Making Your Home Healthier and More Comfortable the Energy and Water Efficiency Way,” South Bay Adult School Catalog, Summer 2017

Volunteer Program

Status of Program: 100 hours for June 2017; 2017 thus far = 501.75 hours

Grand total as of 6/30/17 = 17,233.93 (starting April 2008)