

INFORMATIONAL BOARD LETTER

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DATE:

June 8, 2018

SUBJECT:

Renewable Portfolio Standard Projects - May 2018

Please find attached the Renewable Portfolio Standard (RPS) Projects Update Report for May 2018.

<u>Attachments</u>

- RPS Projects & Programs Update Summary Sheet
- LADWP RPS Master Project List
- Actual and Forecasted Monthly Renewable Energy from Generation and Purchases
- Feed-in Tariff (FiT) Program
- Solar Incentive Program (SIP)

RENEWABLE PORTFOLIO STANDARD (RPS) PROJECTS & PROGRAMS UPDATE SUMMARY SHEET – May 2018

IN-BASIN PROGRAMS

Energy Storage

- 3,103 kW of behind-the-meter customer-owned battery projects pending interconnections.
- 1,296 MW of total systems installed and procured energy storage capacity, including large scale storage.
- LADWP is negotiating with top vendor for 200kW of Lithium and Flow Battery; the batteries will be installed at the JFB building for R&D.
- LADWP is planning to install Battery Energy Storage Systems at Distributed Stations (DS) to alleviate grid congestion problems. LADWP began environmental process at a potential DS location.
- LADWP is proposing City-Owned buildings to install energy storage pairing with other Distributed Energy Resources.

Solar Incentive Program (SIP)

- 358 rebates have been confirmed consisting of 347 Residential (2.2 MW) and 11 Commercial (0.4 MW).
- 244 solar systems were given permission to operate (PTO) consisting of 234 Residential (1.4 MW) and 10 Commercial (942 kW).
- 273 projects totaling 4.6 MW received rebates totaling \$1,194,000.
- 31,156 SIP projects installed since program inception, totaling about 233 MWs, with incentives paid to date of about \$316 million.
- 35,101 Net Energy Metered (NEM) projects installed (including SIP), totaling about 264 MWs.

Feed-in Tariff (FiT)

- 50 projects are in service with a total capacity of 47 MW.
- 100 projects are active and under development with a total capacity of 61 MW.
- Since the June 30, 2017 capacity re-offer, 60 projects totaling 47 MW have been received on a first come first served basis and are now under development, and a 5 MW financial commitment for future project development.

Community Solar Programs (CSP)

- A Shared Solar Program update was presented at the April 24, 2018 Board meeting. Billing system modifications needed for this program are scheduled for completion in August 2018. LADWP plans to seek Board approval for the program at this time.
- The Solar Rooftops Program pilot is being administered; below are a few statistics:
 - Completed Installations: 9 (28 kW)
 - Delivering energy: 5 (16 kW)
 - Awaiting LADBS final approval: 4 (12 kW)
 - Projects in Design/Construction: 34
 - Homes in the Inspections Process: 64
 - Applications to be Processed: 119
 - Disqualified Applications: 527

UTILITY SCALE PROJECTS

Springbok 1, 2, and 3 Solar Projects

350 MWs, 4.0% RPS.

SCPPA Projects, where LADWP is the only participant, located in Kern County, California.

Updates:

Springbok 1 (105 MWs)

COD achieved on July 11, 2016

Springbok 2 (155 MWs)

COD achieved on September 6, 2016

Springbok 3 (90 MWs)

 8minutenergy provided written notification (per PPA requirements) to SCPPA and LADWP that the COD of the project will be April 2019; the PPA executed in 2016 allowed for COD from 2017 to 2020, at 8minutenergy's election, in return LADWP was provided up to 25 hours of yearly curtailment

Beacon Battery Storage Project

20 MWs, 10 MWh

LADWP Project located in Kern County, California.

Updates:

- The project is co-located at the Beacon Solar Project and was energized on April 9, 2018 and is on track to be fully commissioned by August 2018.
- Various equipment has arrived to the site. Battery containers arrived mid-February 2018.

Northern Nevada Geothermal Portfolio Project

150 MWs, 5.0% RPS, expected CODs in three development periods ending on 12/31/2018, 12/31/2020 and 12/31/2022 respectively until reaching 150 MW Capacity

SCPPA Project from nine existing and new plants in Northern Nevada; LADWP is the sole participant.

Updates:

- Effective date of the PPA was achieved on September 25, 2017 and the Developer is continuing to work on meeting the COD requirements for the second facility
- Tungsten Mountain (24 MW) achieved COD December 1, 2017 and Steamboat Hills (12 MW) achieved COD on March 6, 2018 for a total of 36 MW
- McGuinness Hills 3 (38 MW) is scheduled for COD on December 31, 2018.

ARP Loyalton Biomass Project

8.9 MWs, 0.8% RPS, COD on April 20, 2018

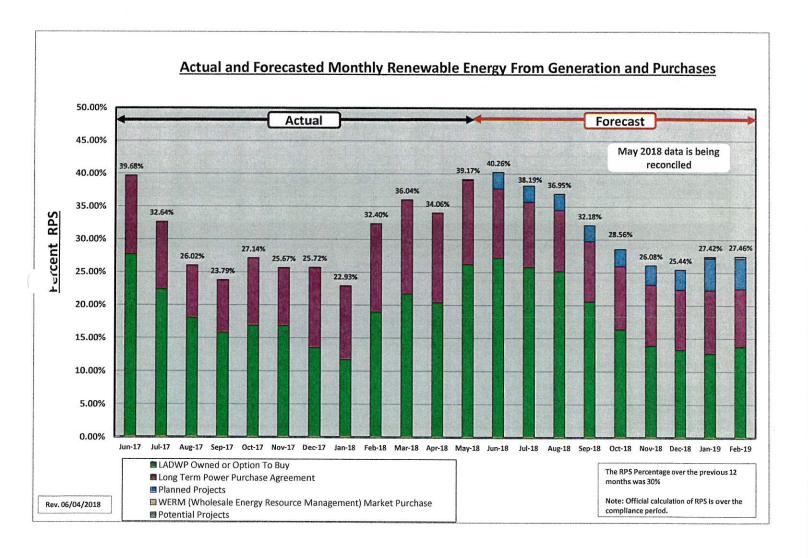
SCPPA (11.98MW), SMUD (4.22MW), MID (.99MW), and TID (.81MW) are the PPA Buyers. LADWP (8.9 MW), Riverside (.8 MW), Anaheim (.8 MW), and IID (1.5 MW) are the SCPPA project participants

Updates:

- The project was approved by the City Council on March 13, 2018.
- Delivery commencement was achieved on April 20, 2018
- Point of delivery is CAISO Summit 120 kV; All SCPPA and non-SCPPA project participants will sell the power at the POD with Riverside acting as the Scheduling Coordinator

			Ownership	LA's	Shares	
	PPA/Own	COD3	Option date	MW	GWh	Comments
Projects In-service			T			
Small Hydro	Own	In service		208	569	Existing
OWP Built Solar	Own	In service		6.1	10.7	Existing
Solar CNM (SB1)	Own (REC's only)	In service		250.0	412.5	RECs not RPS Eligible Currently
W Wyoming Wind	PPA	7/1/06		82.7	203.2	2005 SCPPA RFP
Pebble Springs Wind	PPA	1/30/09		68.7	151.6	2006 SCPPA RFP
MWD Sepulveda	PPA	In service		8.5	33	2006 SCPPA RFP
Villow Creek Wind	PPA	12/1/08		72	166.2	2007 DWP RFP
ine Tree Wind Power Project	Own	6/1/10	11.00	135	248.3	Existing
filford Wind Phase I	PPA/Own	11/16/09	11/16/19	185	389.6	2006 SCPPA RFP
lilford Wind Phase II	PPA/Own	5/2/11	7/1/18	102	196.0	2006 SCPPA RFP
/indy Point Phase II	PPA/Own	1/31/10	1/31/30	262.2	654.0	2007 SCPPA RFP
inden Wind Energy Project	Own	6/30/10	ATTENDED	50	138.7	2007 SCPPA RFP
orth Hollywood PS Power Plant	Own	In service		1	5.3	Existing
hell Renewable Biomethane	PPA	1/1/12	12/31/21	N/A	320	2011 Gas Purchase
delanto Solar Facility	Own	6/30/12		10.0	21	Existing
ine Tree Solar Facility	Own	3/15/13		8.5	18	Existing
anzana Wind	PPA	12/20/12	Apples and	39	105.9	10 year contract
on Campbell I Geothermal	PPA	1/1/14		13.71	114	2011 SCPPA RFP
olar Feed-In-Tariff	PPA	In service		47.0	82.3	Existing
opper Mountain Solar 3	PPA/Own	4/8/15	4/8/25	210	515	2011 SCPPA RFP
udson Ranch	PPA	5/4/15	O PROPERTY.	55	483	Existing
on Campbell II Geothermal	PPA	9/17/15	SALES SERVICES	16.2	135	2014 SCPPA RFP
eber 1 Geothermal	PPA	2/2/16		35.9	299	10 year contract
oringbok 1 Solar	PPA/Own	7/11/16	7/10/31	105	284	2012 SCPPA RFP
oringbok 2 Solar	PPA/Own	9/6/16	9/6/31	155	420	2012 SCPPA RFP
E Cinco Solar	PPA/Own	8/23/16	8/23/22	60	182	2012 SCPPA RFP
eacon Solar Project Site 1	PPA/Own	4/28/17	4/28/24	56	138	2013 DWP RFP
eacon Solar Project Site 2	PPA/Own	12/15/17	12/15/24	48	118	2013 DWP RFP
eacon Solar Project Site 3	PPA/Own	12/30/16	12/30/23	56	138	2013 DWP RFP
eacon Solar Project Site 4	PPA/Own	12/9/16	12/9/23	50	123	2013 DWP RFP
eacon Solar Project Site 5	PPA/Own	12/8/17	12/8/24	40	99	2013 DWP RFP
papa Southern Paiute Solar	PPA/Own	12/8/16	12/8/26	250	618	2013 DWF RFF 2011 SCPPA RFP
rmesa Geothermal	PPA	11/30/17	120/20	30	250	2011 SCPPA RFP
V Geothermal Portfolio	PPA	12/1/17		36	300	2014 SCPPA RFP 2016 SCPPA RFP
RP Loyalton Biomass	PPA	4/30/18		8.9	71.5	
Total	TTA .	4/30/10	CALCULATE AND ADDRESS OF THE PARTY OF THE PA			5 year contract
ojects Under Construction				2,777	8,142	
WP Built Solar (In-Basin)	Own	2018-2022	Maria Maria Maria Angel	00.0	50.0	
ommunity Solar Program	Own	2018-2020		33.9	59.3	Budgeted
plar Customer Net Metered	Own (REC's only)			3	5.3	550
plar Feed-In-Tariff ²	PPA	2018-2030	Market ATTACK	124.0	204.6	RECs not RPS Eligible Currently
Total	FFA	2018-2020	SASTER AND IN	88.0	154.0	Budgeted
ojects Planned				249	423	
queduct PP Improvements	0	POLSPANIE EDVOYED BUILDING	A POSTORIO ALIANO STATES			
	Own	7/1/23		4	30	Budgeted
ater System Hydro	Own	7/1/20		2	10	Budgeted
oringbok 3 Solar	PPA/Own	1/31/19	1/31/34	90	240	2015 SCPPA RFP
/ Geothermal Portfolio	PPA	12/31/18-12/31/22		131	1,090	2016 SCPPA RFP
Total				227	1,370	
Sub Total				3,253	9,936	
otential Projects						
ind Extensions	PPA	1/1/24	HANCOUR PROPERTY.	140.7	389.9	
OVSR	Own	2024-2027	NAME OF TAXABLE PARTY.	200	526	
8859 Biomass PPA 2018	PPA	11/1/18	NAME OF TAXABLE PARTY.	5.4		
lar Feed-in-Tariff 300 Expanded	PPA	2019-2023	松野公司	300	43.5 525	
lar PPA 2020 M	PPA/Own	12/31/20	A CHARLEST PARTIES	200	533	
lar PPA 2021 E	PPA/Own	12/31/21	THE REAL PROPERTY.			
lar PPA 2021 M	PPA/Own	12/31/21		200	559	
lar PPA 2024 CH	PPA/Own			450	1,258	
lar PPA 2024 Ch	PPA/Own	12/31/24		150	399	
othermal PPA 2022 O		12/31/24	Action to the second second	150	477	
ort-Term Market Purchases	PPA PPA	2022-2028		175	1,450	
	I I A	2018		N/A	0.0	
Total				1,971	6,160	
Sub Total				1,971	6,160	
Grand Total				5,224	16,095	
and the later was a second or the later was	2000					
发生的发生的现在分词	DWP Owned					
	DWP Ownership Option					
	DWP Owned + Option to Own					
	PPA					
			1 1			
			I E			
ased on figures published as of Sep plar Feed-In-Tariff (Under construct						

	70, A3 U	F MAY 2	018
	2018	2019	2020
Projects In-service	2 525	0.000	- Walter
Small Hydro DWP Built Solar	2.53% 0.05%	2.32%	2.11%
Solar CNM (SB1)	0.05%	0.05%	0.05%
SW Wyoming Wind	0.00%	0.00%	0.90%
Pebble Springs Wind	0.76%	0.90%	0.90%
MWD Sepulveda	0.10%	0.11%	0.07%
Willow Creek Wind	0.81%	0.73%	0.73%
Pine Tree Wind Power Project	1.10%	1.04%	1.04%
Milford Wind Phase I	1.80%	1.72%	1.72%
Milford Wind Phase II	0.91%	0.86%	0.86%
Windy Point Phase II	3.06%	2.88%	2.88%
Linden Wind Energy Project	0.68%	0.61%	0.61%
North Hollywood PS Power Plant	0.02%	0.02%	0.02%
Shell Renewable Biomethane	0.11%	1	0.02.70
Adelanto Solar Facility	0.08%	0.08%	0.08%
Pine Tree Solar Facility	0.05%	0.05%	0.05%
Manzana Wind	0.48%	0.47%	0.47%
Don Campbell I Geothermal	0.56%	0.50%	0.50%
Solar Feed-In-Tariff	0.37%	0.36%	0.36%
Copper Mountain Solar 3	2.32%		
Hudson Ranch		2.25%	2,25%
Don Campbell II Geothermal	2.09%	1.99%	1.99%
Heber 1 Geothermal	0.66%	0.59%	0.59%
	0.96%	1.32%	1.32%
Springbok 1 Solar	1.38%	1.34%	1.34%
Springbok 2 Solar	1.92%	1.84%	1.84%
RE Cinco Solar	0.81%	0.78%	0.78%
Beacon Solar Project Site 1	0.64%	0.61%	0.61%
Beacon Solar Project Site 2	0.55%	0.52%	0.52%
Beacon Solar Project Site 3	0.64%	0.61%	0.61%
Beacon Solar Project Site 4	0.56%	0.53%	0.53%
Beacon Solar Project Site 5	0.49%	0.48%	0.48%
Moapa Southern Paiute Solar	2.76%	2.68%	2.68%
Ormesa Geothermal	1.15%	1.10%	1.10%
NV Geothermal Portfolio	1.35%	1.32%	1.31%
ARP Loyalton Biomass	0.23%	0.32%	0.32%
Total	32.88%	31.65%	31.42%
Projects Under Construction	JZ.0078	31.0376	31.42 /6
DWP Built Solar (In-Basin)	0.04%	0.11%	0.000/
Community Solar Program	0.04%		0.20%
		0.00%	0.00%
Solar Customer Net Metered	0.00%	0.00%	0.00%
Solar Feed-In-Tariff ²	0.05%	0.19%	0.47%
Total	0.09%	0.29%	0.67%
Projects Planned			
Aqueduct PP Improvements			
Water System Hydro			0.02%
Springbok 3 Solar	0.06%	1.06%	1.05%
NV Geothermal Portfolio	0.00%	1.39%	1.39%
Total	0.06%	2.45%	2.46%
Total Expected	33.03%	34.39%	34.55%
Potential Projects	00.0070	0.10070	0 1100 70
Vind Extensions			
SOVSR	0.000		
SB859 Biomass PPA 2018	0.03%	0.19%	0.19%
Solar Feed-in-Tariff 300 Expanded		0.39%	1.16%
Solar PPA 2020 M			1.18%
Solar PPA 2021 E			
Solar PPA 2021 M			
Solar PPA 2023 CH			
Solar PPA 2023 L			
Geothermal PPA 2022 O			
Short-Term Market Purchases	0.00%		
Total	0.0%	0.6%	2.5%
· Star	2018	2019	2020
Grand Total	33.1%		
		35.0%	37.1%
DWP Owned	4.5%	5.1%	6.8%
Option to Own	17.9%	17.3%	16.7%
DWP Owned/Option to Own	22.4%	22.4%	23.5%
PPA	10.6%	12.5%	13.6%
Total Master List Projects	33.1%	35.0%	37.1%
LADWP RPS Goals	34.0%	37.9%	39.0%
Forecasted Total Sales to Ultimate Customers (GWh) ¹	21,900	22,678	22,681
D. J. J. O. W.	2018	2019	202
Required GWh Estimated GWh	7,446	8,595 7,932	8,846 8,409
Difference	-206	-663	-437
	Compl	iance 3 Ove	er/Under
	Quantity		B GWh



Feed-in Tariff Program May 2018 Status Report

Application Status

		# 0	f Applicati	ons	MWAC						
	Total	Active	Waitlist	Cancelled	In-Service	Total	Active	Waitlist	Cancelled	In-Service	
FiT 100 Total	397	45	0	314	38	273	12	0	241	20.2	
FiT 50 Total	64	11	0	43	10	91	10	0	55	25.7	
FiT Re-offer Total	50	44	0	4	2	45	40	0	5	0.8	
Program Total	511	100	0	. 361	50	408.5	61.1	0.0	300.8	46.7	

Application Status by System Size Category

9	small Projects (<150 kW)		N	ledium &	Large	(>150 k	W)		
	Total	Active	Waitlist	Cancelled	In-Service	Total	Active	Waitlist	Cancelled	In-Service
FiT 100 Total	158	31	0	108	19	239	14	0	206	19
FiT 50 Total	4	0	0	4	0	60	11	0	39	10
FiT Re-offer Total	8	6	0	2	0	41	37	0	2	2
Total	170	37	0	114	19	340	62	0	247	31
Capacity (MW AC)	7.9	3.4	0.0	2.4	2.0	206.1	52.7	0.0	108.7	44.7

Active Projects Processing Status

	Park and the state of the state	Book and the second						
Allocation Status	Pending	Technical Review	Interconnecti on Study	Awaiting Contract Documents	Contract Review	Contract Signed / Under	In-Service	Total
FiT 100 Total	0	0	7	2	1	39	38	87
FiT 50 Total	0	0	9	NA	NA	10	10	29
FiT Re-offer Total	0	0	28	2	0	9	2	41
Total	0	0	44	4	1	58	50	157

Program Capacity Summary

Total Authority (MW)	150.0
Total In-Service (MW)	46.7
Total Active Projects (MW)	61.1
Available Capacity (MW)	42.2



Solar Incentive Program

May 2018 Status Report

	2000 Sec.#	of Applications	10:10 FAL 10		MW AC	to the	Incentive Payments (\$000's)			
	Res	Non-Res	Total	Res	Non-Res	Total	Res	Non-Res	Total	
Paid Reservations (SB1)	29,191	1,025	30,216	147.56	74.43	221.99	\$125,316	\$133,599	\$258,915	
Unpaid Confirmed Reservations	209	1,292	1,501	9.10	26.37	35.47	\$2,342	\$18,101	\$20,443	
Unconfirmed Reservations	0	1	1	0.00	0.00	0.00	\$0	\$1	\$1	
Total Lifetime Program Budget Remaining Incentives	29,400	2,318	31,718	157	101	257	\$127,658	\$151,701	\$279,359 \$288,000 \$8,641	

Paid Solar Installations	APART NEWS	No.	Service - B. 200	A SECULO	BRIDGUS !	100	W. SOME	The original	nik oba
	C. C. S. S. S. S. # (of Applications	3236-70 B		MW AC	acathan i	Incention	ve Payments (\$0	000's)
Fiscal Year	Res	Non-Res	Total	Res	Non-Res	Total	Res	Non-Res	Total
Pre-Senate Bill 1 (SB1) Paid Solar I	nstallations		STATE AND DESCRIPTION OF THE PERSON OF THE P		OF THE PARTY		Barbara Barbara	SHE WAS DELLAR TO	
Prior to 7/1/2007	862	78	940	3.30	7.43	10.73	\$16,407	\$40,612	\$57,019
Subtotal	862	78	940	3.30	7.43	10.73	\$16,407	\$40,612	\$57,019
\$B1 Paid Solar Installations	Company of the Control					HINNE COMES			VALUE OF STREET
FY 2007/08	349	53	402	1.55	1.74	3.29	\$6,633	\$6,457	\$13,090
FY 2008/09	435	32	467	1.97	1.38	3.35	\$8,258	\$4,809	\$13,067
FY 2009/10	592	20	612	2.66	1.05	3.71	\$10,113	\$3,301	\$13,414
FY 2010/11	1,077	38	1,115	5.38	3.10	8.49	\$18,311	\$11,219	\$29,531
FY 2011/12	1,751	172	1,923	8.80	13.96	22.76	\$21,752	\$38,220	\$59,973
FY 2012/13	2,212	60	2,272	10.62	7.42	18.04	\$14,884	\$18,062	\$32,946
FY 2013/14	3,498	61	3,559	17.44	5.95	23.40	\$14,260	\$13,294	\$27,554
FY 2014/15	4,440	124	4,564	22.03	11.40	33.43	\$8,968	\$11,173	\$20,141
FY 2015/16	6,168	162	6,330	29.68	11.06	40.74	\$9,564	\$15,072	\$24,635
FY 2016/17	5,711	164	5,875	29.77	8.04	37.80	\$8,197	\$6,412	\$14,609
FY 2017/18	2,958	139	3,097	17.66	9.33	26.99	\$4,376	\$5,579	\$9,955
Subtotal	29,191	1,025	30,216	147.56	74.43	221.99	125,316	133,599	258,91

	Marine Sample Co.			Manual Services			加加烈	正明·斯克克克克3	TO STATE
Total Paid Solar Installations	30,053	1,103	31,156	150.87	81.86	232.73	\$141,723	\$174,212	\$315,934

	然后以为少少多类	of Applications	SECTION AND D		MW AC	SERVICE SERVICE	Incent	ive Amount (\$00	00's)
Month	Res	Non-Res	Total	Res	Non-Res	Total	Res	Non-Res	Total
Confirmed Reservations									
Jul-17	395	11	406	2.21	0.28	2.49	\$539	\$137	\$676
Aug-17	322	19	341	1.88	0.96	2.84	\$459	\$605	\$1,064
Sep-17	362	12	374	2.16	0.22	2.38	\$532	\$154	\$686
Oct-17	451	17	468	2.87	1.56	4.43	\$727	\$683	\$1,409
Nov-17	358	22	380	2.29	1.91	4.20	\$561	\$659	\$1,220
Dec-17	431	7	438	2.81	0.15	2.96	\$683	\$43	\$725
Jan-18	349	27	376	2.12	1.97	4.09	\$534	\$703	\$1,237
Feb-18	337	8	345	2.28	0.15	2.43	\$632	\$74	\$706
Mar-18	282	10	292	2.23	0.74	2.98	\$538	\$603	\$1,141
Apr-18	316	19	335	1.93	1.25	3.18	\$477	\$884	\$1,361
May-18	347	11	358	2.15	0.42	2.57	\$524	\$162	\$685
Jun-18	42	1	43	0.26	0.06	0.32	\$61	\$18	\$79
Total	3,992	164	4,156	A DOUBLE TO A DOUB			-	THE RESIDENCE OF THE PARTY OF T	******
	THE RESIDENCE OF THE PARTY OF T	104	4,156	25.18	9.69	34.87	\$6,267	\$4,723	510.990
		101	4,155	25,18	9.69	34.87	\$6,267	\$4,723	\$10,990
Pald Systems			4,156	25.18		34.87		\$4,723	\$10,990
Jul-17	329	16	345	LICAS ST.L. TWO SAN TOPS		and River Charles and the Late		\$4,723 \$567	
Jul-17 Aug-17				新加斯	Transmit.	SASAT NOR	持了指導於		\$1,036
Jul-17 Aug-17 Sep-17	329	16	345	1.83	0.97	2.79	\$469	\$567	\$1,036 \$590
Jul-17 Aug-17 Sep-17 Oct-17	329 248	16 12	345 260	1.83 1.43	0.97 0.35	2.79 1.77	\$469 \$351	\$567 \$239 \$1,973	\$1,036 \$590 \$2,303
Jul-17 Aug-17 Sep-17 Oct-17	329 248 229	16 12 15	345 260 244	1.83 1.43 1.35	0.97 0.35 1.24	2.79 1.77 2.59	\$469 \$351 \$330	\$567 \$239	\$1,036 \$590 \$2,303 \$1,645
Jul-17 Aug-17 Sep-17 Oct-17 Nov-17 Dec-17	329 248 229 370	16 12 15 28	345 260 244 398	1.83 1.43 1.35 2.13	0.97 0.35 1.24 1.85	2.79 1.77 2.59 3.98	\$469 \$351 \$330 \$524 \$336	\$567 \$239 \$1,973 \$1,120 \$310	\$1,036 \$590 \$2,303 \$1,645 \$646
Jul-17 Aug-17 Sep-17 Oct-17 Nov-17 Dec-17 Jan-18	329 248 229 370 224	16 12 15 28 7	345 260 244 398 231	1.83 1.43 1.35 2.13 1.34	0.97 0.35 1.24 1.85 0.81	2.79 1.77 2.59 3.98 2.16	\$469 \$351 \$330 \$524	\$567 \$239 \$1,973 \$1,120	\$1,036 \$590 \$2,303 \$1,645 \$646 \$499
Jul-17 Aug-17 Sep-17 Oct-17 Nov-17	329 248 229 370 224 228	16 12 15 28 7	345 260 244 398 231 237	1.83 1.43 1.35 2.13 1.34 1.34	0.97 0.35 1.24 1.85 0.81 0.31	2.79 1.77 2.59 3.98 2.16 1.65	\$469 \$351 \$330 \$524 \$336 \$328	\$567 \$239 \$1,973 \$1,120 \$310 \$172	\$1,036 \$590 \$2,303 \$1,645 \$646 \$499 \$511
Jul-17 Aug-17 Sep-17 Oct-17 Nov-17 Dec-17 Jan-18	329 248 229 370 224 228 308	16 12 15 28 7 9	345 260 244 398 231 237 314	1.83 1.43 1.35 2.13 1.34 1.34 1.89	0.97 0.35 1.24 1.85 0.81 0.31	2.79 1.77 2.59 3.98 2.16 1.65 2.03	\$469 \$351 \$330 \$524 \$336 \$328 \$465	\$567 \$239 \$1,973 \$1,120 \$310 \$172 \$46 \$188	\$1,036 \$590 \$2,303 \$1,645 \$646 \$499 \$511 \$597
Jul-17 Aug-17 Sep-17 Oct-17 Nov-17 Dec-17 Jan-18 Feb-18 Mar-18	329 248 229 370 224 228 308 269	16 12 15 28 7 9 6	345 260 244 398 231 237 314 284	1.83 1.43 1.35 2.13 1.34 1.34 1.89	0.97 0.35 1.24 1.85 0.81 0.31 0.14	2.79 1.77 2.59 3.98 2.16 1.65 2.03 2.07	\$469 \$351 \$330 \$524 \$336 \$328 \$465 \$409 \$360	\$567 \$239 \$1,973 \$1,120 \$310 \$172 \$46 \$188 \$126	\$1,036 \$590 \$2,303 \$1,645 \$646 \$499 \$511 \$597
Jul-17 Aug-17 Sep-17 Oct-17 Nov-17 Dec-17 Jan-18 Feb-18 Mar-18 Apr-18	329 248 229 370 224 228 308 269 243	16 12 15 28 7 9 6 15	345 260 244 398 231 237 314 284	1.83 1.43 1.35 2.13 1.34 1.34 1.89 1.66	0.97 0.35 1.24 1.85 0.81 0.31 0.14 0.41 0.28	2.79 1.77 2.59 3.98 2.16 1.65 2.03 2.07 1.75	\$469 \$351 \$330 \$524 \$336 \$328 \$465 \$409 \$360 \$398	\$567 \$239 \$1,973 \$1,120 \$310 \$172 \$46 \$188 \$126 \$50	\$1,036 \$590 \$2,303 \$1,645 \$646 \$499 \$511 \$597 \$486 \$448
Jul-17 Aug-17 Sep-17 Oct-17 Nov-17 Dec-17 Jan-18 Feb-18	329 248 229 370 224 228 308 269 243 255	16 12 15 28 7 9 6 15	345 260 244 398 231 237 314 284 252 259	1.83 1.43 1.35 2.13 1.34 1.34 1.89 1.66 1.47	0.97 0.35 1.24 1.85 0.81 0.31 0.14 0.41	2.79 1.77 2.59 3.98 2.16 1.65 2.03 2.07	\$469 \$351 \$330 \$524 \$336 \$328 \$465 \$409 \$360	\$567 \$239 \$1,973 \$1,120 \$310 \$172 \$46 \$188 \$126	\$10,990 \$1,036 \$590 \$2,303 \$1,645 \$646 \$499 \$511 \$597 \$486 \$448 \$1,194