



Mesa Water District

Evaluation of Community Choice
Agreements

Metrics Comparison Report

May 24, 2022



Status of Community Choice Aggregation in California



- Community Choice Aggregation (CCA) legislation approved in California September 2002
- Rules regulating CCAs published in 2005 making available to local governments
- First CCA established in 2010 by Marin County (Marin Clean Energy)

Clean Power Exchange compilation of CCA programs as of 11/17/2020

Source: <https://cleanpowerexchange.org/california-community-choice/#map>

Southern California Edison CCAs

Operational Community Choice Aggregation Agencies Serviced by SCE

Name	Service Territory	Launched
Lancaster Choice Energy	City of Lancaster in L.A. County	May 2015
Apple Valley Choice Energy	City of Apple Valley	April 2017
Pico Rivera Innovative Municipal Energy (PRIME)	City of Pico Rivera	September 2017
Clean Power Alliance of Southern California	Los Angeles and Ventura Counties	February 2018
San Jacinto Power	City of San Jacinto	April 2018
Rancho Mirage Energy Authority	City of Rancho Mirage	May 2018
Desert Community Energy	Central and Eastern Riverside County	April 2020
BProud – Baldwin Park	Baldwin Park	October 2020
Pomona Choice Energy	City of Pomona	October 2020

Roles and Responsibilities in Community Choice Aggregation

- Generation:
 - CCA is responsible for contracting Generation with a third party
 - SCE may be a provider but must be under contract with CCA
- Transmission:
 - The California Independent System Operator (CAISO) provides open access to the bulk of the state's wholesale transmission grid
 - CCA is responsible for ensuring power needs are scheduled and settled with CAISO
 - SCE is an owner of transmission lines operated by CAISO
- Distribution:
 - SCE owns and operates distribution lines in your service area
 - CCAs do not typically own or operate distribution lines

Review of Services Provided by SCE

- Metering services (ownership, installation, removal, calibration, testing, and maintenance of meters)
- Meter reading and usage data acquisition services
- Billing and payment services
- Customer Care & Account Maintenance



UNDERSTANDING YOUR COMMUNITY CHOICE AGGREGATION (CCA) BILL

Residential and Small Business Customers

- 1. Your amount due**
Shows your current monthly amount due and the due date.
- 2. Your SCE account information**
If you ever need customer service or want to enroll in SCE programs and services, we'll use your customer account number to access your information.
- 3. Your account summary**
Shows your most recent account activity and current amount due.
- 4. Summary of your billing detail**
You're an "unbundled" SCE customer, which means we deliver your electricity, but you have a separate Energy Service Provider who generates it. While all of your charges are shown together on one bill, we use this section to list your delivery and generation charges separately, and we identify them for you using individual service account numbers.
- 5. Your payment stub**
Shows the amount due and the due date. If you're paying by mail, remember to write your customer account number on the "memo" line of your check and make sure the SCE address is visible in the return envelope window. You can save postage costs and help the environment by going paperless at sce.com/billing - it's fast, easy, and secure.

The image shows a sample of a SCE Edison electricity bill. The bill is titled 'Your electricity bill' and includes the SCE Edison logo. It features a yellow header with the amount due (\$183.75) and the due date (1/29/17). The bill is divided into several sections, each with a numbered callout: 1. Amount due, 2. Your SCE account information, 3. Your account summary, 4. Summary of your billing detail, and 5. Your payment stub. The bill also includes a table for 'Summary of your billing detail' with columns for 'Description', 'Rate', 'Usage', 'Amount', and 'Tax'. The table shows charges for 'Delivery' and 'Generation'. At the bottom, there is a 'PAYMENT STUB' section with a 'MEMO' line and a 'CHECK' line.

SCE and CCA Joint Rate Comparison Publication

A Joint Rate Comparison is prepared for each CCA. This is a sample prepared for Pomona Choice Energy (POME). Other CCAs have similar publications using the same format and including tables for all applicable rates.

SCE and POME JOINT RATE COMPARISONS

As part of our mutual commitment to better serve customers, Southern California Edison (SCE) and Pomona Choice Energy (POME) have jointly created a comparison of our common electric rates, average monthly charges, and generation portfolio contents. To find your specific electric rate, please scroll down. If you are not sure about your specific electric rate, this information can be found on the detailed page of your bill directly beneath the heading that reads "Details of your new charges."

If you have further questions please contact Pomona Choice Energy at pomonachoiceenergy.org or (909) 620-2079 and SCE at sce.com/cca or (800) 974-2356.

Definitions

Generation Rate reflects the cost of producing or purchasing electricity to power your home. This rate depends on usage, and will vary depending on your service provider and rate plan.

SCE Delivery Rate is a charge assessed by SCE to deliver electricity to your home. This rate depends on usage.

Surcharges represents the Cost Responsibility Surcharge (CRS) and Franchise Fee (FF) that are applicable to Community Choice Aggregation (CCA) customers and SCE customers that elect a Green Rate. The CRS is a surcharge to recover costs associated with power purchases made on behalf of customers prior to a customer's switch to a CCA or SCE Green Rate. The FF recovers taxes owed to a city in exchange for allowing SCE to utilize electrical distribution lines throughout the property of the city. SCE acts as the collection agency for the FF surcharge which is levied by cities and counties for all customers.

All comparisons are calculated using SCE's 2020 static load profiles (typical customer usage profiles). SCE's published rates as of February 1, 2021 and POME's published rates as of October 1, 2020.

RESIDENTIAL

DOMESTIC	SCE	SCE Green Rate (20% Renewable)	SCE Green Rate (100% Renewable)	Pomona Choice (20% Renewable)	Pomona Choice (100% Renewable)
Generation Rate	\$0.09545	\$0.08715	\$0.07885	\$0.06708	\$0.06708
SCE Delivery Rate	\$0.15795	\$0.15795	\$0.15795	\$0.15215	\$0.15215
Surcharges	\$0.00000	\$0.01264	\$0.02527	\$0.03194	\$0.03194
Total Costs	\$0.25340	\$0.25774	\$0.26207	\$0.25117	\$0.25117
Choice 100 Premium	NA	NA	NA	NA	\$2.00
Average Monthly Bill (t)	\$150.52	\$153.70	\$155.67	\$149.19	\$151.19

Monthly Usage: 594 kWh
SCE rates are current as of February 1, 2021. POME rates are current as of October 1, 2020.

This rate comparison represents similar comparisons for D SDP, D-SDP-D, DE, DE-SDP, DE-SDP-D, DM, DMS-1, DMS-2, DMS-3

D-CARE	SCE	SCE Green Rate (50% Renewable)	SCE Green Rate (100% Renewable)	Pomona Choice (20% Renewable)	Pomona Choice (100% Renewable)
Generation Rate	\$0.09545	\$0.08715	\$0.07885	\$0.06708	\$0.06708
SCE Delivery Rate	\$0.07587	\$0.07587	\$0.07587	\$0.07587	\$0.07587
Surcharges	\$0.00000	\$0.01264	\$0.02527	\$0.02614	\$0.02614
Total Costs	\$0.17132	\$0.17566	\$0.17999	\$0.16909	\$0.16909
Choice 100 Premium	NA	NA	NA	NA	\$2.00
Average Monthly Bill (t)	\$101.76	\$104.34	\$106.91	\$100.44	\$102.44

Monthly Usage: 594 kWh
SCE rates are current as of February 1, 2021. POME rates are current as of October 1, 2020.

This rate comparison represents similar comparisons for DM CARE, D-CARE-SDP, D-CARE-SDP-D

D-FERRA	SCE	SCE Green Rate (20% Renewable)	SCE Green Rate (100% Renewable)	Pomona Choice (20% Renewable)	Pomona Choice (100% Renewable)
Generation Rate	\$0.09545	\$0.08715	\$0.07885	\$0.06708	\$0.06708
SCE Delivery Rate	\$0.11221	\$0.11221	\$0.11221	\$0.10641	\$0.10641
Surcharges	\$0.00000	\$0.01264	\$0.02527	\$0.03194	\$0.03194
Total Costs	\$0.20766	\$0.21200	\$0.21633	\$0.20543	\$0.20543
Choice 100 Premium	NA	NA	NA	NA	\$2.00
Average Monthly Bill (t)	\$123.35	\$125.93	\$128.50	\$122.03	\$124.03

Monthly Usage: 594 kWh
SCE rates are current as of February 1, 2021. POME rates are current as of October 1, 2020.

This rate comparison represents similar comparisons for D-FERRA-CDS, D-FERRA-CDS-D, D-FERRA, D-FERRA-F, D-FERRA-F, D-FERRA-F-D, D-FERRA-SDP-D, DM FERRA

Initial Analysis of SCE vs. CCA Rates

	A	B	C	D	E	F	G	H	I	J	K
13	RESIDENTIAL							Difference			
14		0	50	100	0	100		0	100		
15	DOMESTIC	SCE	SCE Green Rate (50% Renewable)	SCE Green Rate (100% Renewable)	Pomona Choice	Pomona Choice (100% Renewable)		Pomona Choice	Pomona Choice (100% Renewable)		
16	Generation Rate	\$0.0953	\$0.0870	\$0.0786	\$0.0798	\$0.0798		-\$0.0155	\$0.0012		
17	SCE Delivery Rate	\$0.1846	\$0.1846	\$0.1846	\$0.1788	\$0.1788		-\$0.0058	-\$0.0058		
18	Surcharges	\$0.0000	\$0.0125	\$0.0250	\$0.0319	\$0.0319		\$0.0319	\$0.0069		
19	Total Costs	\$0.2800	\$0.2841	\$0.2883	\$0.2906	\$0.2906		\$0.0106	\$0.0023		
20	Choice 100 Premium	NA	NA	NA	NA	\$2.0000		N/A	\$2.0000		
21	Average Monthly Bill (\$)	\$166.30	\$168.76	\$171.23	\$172.60	\$174.60		\$6.3000	\$3.3700		
22	Monthly Usage: 594 kWh										
23	SCE rates are current as of October 1, 2021. POME rates are current as of July 20, 2021.										
24	This rate comparison represents similar comparisons for D SDP, D SDP O, DE, DE SDP, DE SDP O, DM, DMS 1, DMS 2, DMS 3										
25	D-CARE	SCE	SCE Green Rate (50% Renewable)	SCE Green Rate (100% Renewable)	Pomona Choice	Pomona Choice (100% Renewable)		Pomona Choice	Pomona Choice (100% Renewable)		
26	Generation Rate	\$0.10	\$0.09	\$0.08	\$0.08	\$0.08		-\$0.0155	\$0.0012		
27	SCE Delivery Rate	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09		\$0.0000	\$0.0000		
28	Surcharges	\$0.00	\$0.01	\$0.03	\$0.03	\$0.03		\$0.0261	\$0.0011		
29	Total Costs	\$0.19	\$0.19	\$0.20	\$0.20	\$0.20		\$0.0106	\$0.0023		
30	Choice 100 Premium	NA	NA	NA	NA	\$2.00		N/A	\$2.0000		
31	Average Monthly Bill (\$)	\$112.53	\$115.00	\$117.46	\$118.84	\$120.84		\$6.3100	\$3.3500		
32	Monthly Usage: 594 kWh										
33	SCE rates are current as of October 1, 2021. POME rates are current as of July 20, 2021.										
34	This rate comparison represents similar comparisons for DM-CARE, D-CARE-SDP, D-CARE-SDP-O										
35	D-FERA	SCE	SCE Green Rate (50% Renewable)	SCE Green Rate (100% Renewable)	Pomona Choice	Pomona Choice (100% Renewable)		Pomona Choice	Pomona Choice (100% Renewable)		
36	Generation Rate	\$0.10	\$0.09	\$0.08	\$0.08	\$0.08		-\$0.0155	\$0.0012		
37	SCE Delivery Rate	\$0.13	\$0.13	\$0.13	\$0.13	\$0.13		-\$0.0058	-\$0.0058		
38	Surcharges	\$0.00	\$0.01	\$0.03	\$0.03	\$0.03		\$0.0319	\$0.0069		
39	Total Costs	\$0.23	\$0.23	\$0.24	\$0.24	\$0.24		\$0.0106	\$0.0023		
40	Choice 100 Premium	NA	NA	NA	NA	\$2.00		N/A	\$2.0000		
41	Average Monthly Bill (\$)	\$136.20	\$138.66	\$141.13	\$142.50	\$144.50		\$6.3000	\$3.3700		
42	Monthly Usage: 594 kWh										
43	Combined Rate Compare Summary Metrics 613kW> AVCE LCE 594kW> BPROUD DCE CPA POME PRIME 608kW> SJP ...										

- Joint Rate Comparison splits rates into 3 rate components: Generation, Delivery and Surcharges
- SCE has 50% and 100% Green Rates
- Each CCA designs their own rate programs
- The only rate component (of these 3) the CCA can set is the Generation charge
- The CCA can add other charges for special programs. In this case a flat \$2 fee.

Some Issues with Rates

DOMESTIC	SCE	SCE Green Rate (50% Renewable)	SCE Green Rate (100% Renewable)	AVCE Core Choice	AVCE More Choice (50% Renewable)
Generation Rate	\$0.0953	\$0.0870	\$0.0786	\$0.0716	\$0.0716
SCE Delivery Rate	\$0.1844	\$0.1844	\$0.1844	\$0.1786	\$0.1786
Surcharges	\$0.0000	\$0.0125	\$0.0250	\$0.0367	\$0.0367
Total Costs	\$0.2797	\$0.2839	\$0.2880	\$0.2868	\$0.2868
MORE Choice Premium	NA	NA	NA	NA	\$2.0000
Average Monthly Bill (\$)	\$171.46	\$174.01	\$176.55	\$175.81	\$177.81
Monthly Usage: 613 kWh					
SCE rates are current as of					
This rate comparison represents					
D-CARE	SCE	SCE Green Rate (50% Renewable)	SCE Green Rate (100% Renewable)	AVCE Core Choice	AVCE More Choice (50% Renewable)
Generation Rate	\$0.09534	\$0.08697	\$0.07861	\$0.07155	\$0.07155
SCE Delivery Rate	\$0.09393	\$0.09393	\$0.09393	\$0.09393	\$0.09393
Surcharges	\$0.00000	\$0.01252	\$0.02503	\$0.03088	\$0.03088
Total Costs	\$0.18927	\$0.19342	\$0.19757	\$0.19636	\$0.19636
MORE Choice Premium	NA	NA	NA	NA	\$2.00
Average Monthly Bill (\$)	\$116.02	\$118.57	\$121.11	\$120.37	\$122.37

- Generation Rates for SCE appear to be lower when adding Green Energy, however a surcharge is added
- SCE Delivery rates appear higher than for CCAs in part due to a Wild Fire Charge collected in a different category
- Surcharge calculation is complex and includes charges such as “exit fees” to pay for power purchases in place

Surcharges

Surcharges include:

- Cost Responsibility Surcharge (CRS) – Power purchases made prior to CCA agreement
- Franchise Fee (FF) – Includes recovery of taxes paid to a city in exchange for using distribution lines on their property.

Green Rates add and Indifference Adjustment – Takes into account power purchases made prior to switching to a green rate.

Additional information regarding Green Rates and its components can be found at this address;

<https://www.sce.com/residential/rates/Standard-Residential-Rate-Plan/Green-Rates>

Results of Rate Comparison

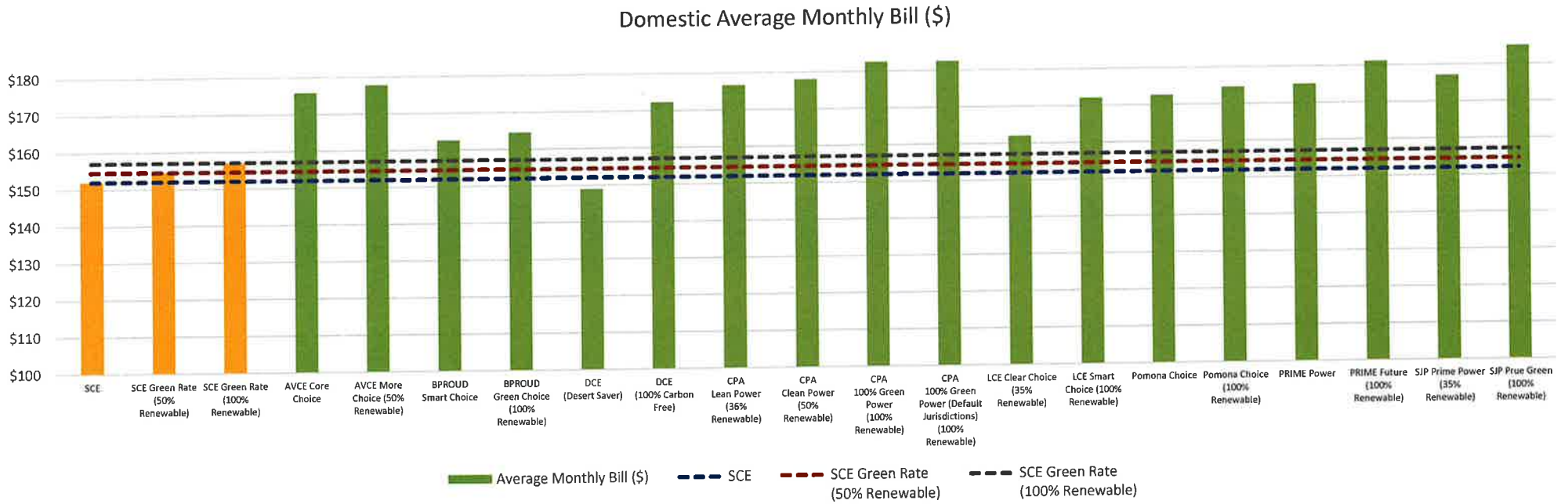
Example of Rates Comparison Using Domestic Rates

	0	50	100	613 kW		594 kW		594 kW		594 kW		613 kW		594 kW		594 kW		608 kW				
DOMESTIC	SCE	SCE Green Rate (50% Renewable)	SCE Green Rate (100% Renewable)	AVCE Core Choice	AVCE More Choice (50% Renewable)	BPROUD Smart Choice	BPROUD Green Choice (100% Renewable)	DCE (Desert-Saver)	DCE (100% Carbon Free)	CPA Lean Power (36% Renewable)	CPA Clean Power (50% Renewable)	CPA 100% Green Power (100% Renewable)	CPA 100% Green Power (Default Jurisdictions) (100% Renewable)	LCE Clear Choice (35% Renewable)	LCE Smart Choice (100% Renewable)	Pomona Choice	Pomona Choice (100% Renewable)	PRIME Power	PRIME Future (100% Renewable)	SIP Prime Power (35% Renewable)	SIP Prime Green (100% Renewable)	
Generation Rate	\$0.10	\$0.09	\$0.08	\$0.07	\$0.07	\$0.09	\$0.09	\$0.07	\$0.10	\$0.08	\$0.08	\$0.09	\$0.09	\$0.07	\$0.07	\$0.08	\$0.08	\$0.08	\$0.09	\$0.08	\$0.08	\$0.08
SCE Delivery Rate	\$0.16	\$0.16	\$0.16	\$0.18	\$0.18	\$0.15	\$0.15	\$0.15	\$0.15	\$0.18	\$0.18	\$0.18	\$0.18	\$0.15	\$0.15	\$0.18	\$0.18	\$0.18	\$0.18	\$0.18	\$0.18	\$0.18
Surcharges	\$0.00	\$0.01	\$0.03	\$0.04	\$0.04	\$0.03	\$0.03	\$0.04	\$0.04	\$0.03	\$0.03	\$0.03	\$0.03	\$0.04	\$0.04	\$0.03	\$0.03	\$0.04	\$0.04	\$0.04	\$0.04	\$0.04
Total Costs	\$0.26	\$0.26	\$0.26	\$0.29	\$0.29	\$0.27	\$0.27	\$0.25	\$0.29	\$0.30	\$0.30	\$0.31	\$0.31	\$0.26	\$0.26	\$0.29	\$0.29	\$0.29	\$0.30	\$0.29	\$0.29	\$0.29
Green Choice Premium	0	0	0	0	\$2.00	0	\$2.00							0	\$10.00	0	\$2.00			0	\$10.00	
Average Monthly Bill (\$)	\$151.99	\$154.52	\$157.06	\$175.81	\$177.81	\$162.54	\$164.54	\$148.98	\$172.26	\$176.72	\$178.07	\$182.54	\$182.54	\$162.03	\$172.03	\$172.60	\$174.60	\$175.15	\$181.09	\$177.07	\$187.07	\$187.07
Monthly Usage: 594 kWh																						
SCE	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99	\$151.99
SCE Green Rate (50% Renewable)	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52	\$154.52
SCE Green Rate (100% Renewable)	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06	\$157.06

Rate Difference vs. Comparable SCE Rate

AVCE Core Choice	AVCE More Choice (50% Renewable)	BPROUD Smart Choice	BPROUD Green Choice (100% Renewable)	DCE (Desert-Saver)	DCE (100% Carbon Free)	CPA Lean Power (36% Renewable)	CPA Clean Power (50% Renewable)	CPA 100% Green Power (100% Renewable)	CPA 100% Green Power (Default Jurisdictions) (100% Renewable)	LCE Clear Choice (35% Renewable)	LCE Smart Choice (100% Renewable)	Pomona Choice	Pomona Choice (100% Renewable)	PRIME Power	PRIME Future (100% Renewable)	SIP Prime Power (35% Renewable)	SIP Prime Green (100% Renewable)
\$0.02	\$0.02	\$0.01	-\$0.01	\$0.03	-\$0.03	\$0.01	\$0.00	-\$0.01	-\$0.01	\$0.02	\$0.00	\$0.02	\$0.00	\$0.02	-\$0.01	\$0.02	\$0.00
-\$0.02	-\$0.02	\$0.01	\$0.01	\$0.01	\$0.01	-\$0.02	-\$0.02	-\$0.02	-\$0.02	\$0.01	\$0.01	-\$0.02	-\$0.02	-\$0.02	-\$0.02	-\$0.02	-\$0.02
-\$0.04	-\$0.02	-\$0.03	-\$0.01	-\$0.04	-\$0.01	-\$0.03	-\$0.02	-\$0.01	-\$0.01	-\$0.04	-\$0.01	-\$0.03	-\$0.01	-\$0.04	-\$0.01	-\$0.04	-\$0.01
-\$0.03	-\$0.03	-\$0.02	-\$0.01	\$0.01	-\$0.03	-\$0.04	-\$0.04	-\$0.04	-\$0.04	-\$0.01	\$0.00	-\$0.03	-\$0.03	-\$0.04	-\$0.04	-\$0.04	-\$0.03
\$0.00	-\$2.00	\$0.00	-\$2.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	-\$10.00	\$0.00	-\$2.00	\$0.00	\$0.00	\$0.00	-\$10.00
-\$23.82	-\$23.29	-\$10.55	-\$7.48	\$3.01	-\$15.20	-\$24.73	-\$23.55	-\$25.48	-\$25.48	-\$10.04	-\$14.97	-\$20.61	-\$17.54	-\$23.16	-\$24.03	-\$25.08	-\$30.01

Initial Results of Rate Comparison



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