

California Cap-and-Trade Program and Québec Cap-and-Trade System August 2024 Joint Auction #40

Summary Results Report

Background

The California Air Resources Board (CARB) and Québec's ministère de l'Environnement, de la Lutte contre les changements climatiques, de la Faune et des Parcs (MELCCFP)¹ held a joint auction of greenhouse gas (GHG) allowances² on August 14, 2024. The auction included a Current Auction of 2019, 2021, and 2024 vintage allowances and an Advance Auction of 2027 vintage allowances. The information provided in this report is a balance between the need for program transparency and protection of information about individual qualified bidders' market positions.

Prior to the certification of the auction, CARB and MELCCFP staff and the independent Market Monitor carefully evaluated the bids and determined that the auction process and procedures complied with the requirements of the California and Québec Cap-and-Trade Regulations (the Regulations). As provided below, the Market Monitor made the following determination:

The Market Monitor found that the auction was cleared consistent with the auction clearing rules in the Regulations and appropriate economic logic. The Market Monitor confirmed the clearing price and clearing quantities by qualified bidder for the Current Auction of 2019, 2021, and 2024 vintage allowances and for the Advance Auction of 2027 vintage allowances. The auction algorithm correctly applied requirements of the Regulations covering the bid guarantee. The Market Monitor did not observe any breaches of security or communication protocols.

The Market Monitor recommends that CARB and MELCCFP approve the August Auction results.

¹ Ministry of the Environment, the Fight against Climate Change, Wildlife and Parks

² The term "allowance" will be used throughout this document to refer to "allowance" as described in the California Regulation and to "emission unit" as defined in the Québec Regulation.



Auction proceeds figures are not shown in this report because of the exchange rate process for determining final auction proceeds in a joint auction. Winning bids are submitted in one of two currencies – U.S. dollars (USD) or Canadian dollars (CAD). After receiving payment from the winning bidders, and using instructions from the linked jurisdictions (California and Québec), the Financial Services Administrator will exchange some amount of currency at then-prevailing market rates prior to transferring the auction proceeds to the jurisdictions.

The Financial Services Administrator will distribute auction proceeds to the jurisdictions after all qualified bidder payments are received. The jurisdictions will receive auction proceeds by September 11, 2024. As provided in the California Cap-and-Trade Regulation, sellers who consigned allowances in this auction will be paid the auction settlement price in USD for every consigned allowance sold. Information regarding jurisdiction-specific auction proceeds will be published after the auction is final.

California must receive auction proceeds only in USD. Québec must receive auction proceeds only in CAD. Thus, the total amount of auction proceeds received by the jurisdictions from the sale of allowances may be higher or lower than the auction settlement price multiplied by allowances sold depending on the prevailing exchange rates in effect at the time of currency exchange prior to the distribution of auction proceeds. Each jurisdiction will separately post information on September 11, 2024, providing the final amount of proceeds transferred.

Auction Results

The first three tables below provide key data and information on the results of the auction. The fourth table provides qualified bid summary statistics from the auction. Please see Explanatory Notes after the list of qualified bidders for descriptions of all summary information.



Table 1: Allowances Offered for Sale in the August 2024 Joint Auction #40

Description of Allowances	Current Auction Vintage 2019	Current Auction Vintage 2021	Current Auction Vintage 2024	Current Auction Vintage Total	Advance Auction Vintage 2027
Allowances Offered by CA Entity Consignment	-	-	19,577,042	19,577,042	-
Allowances Offered by CARB	-	-	25,271,454	25,271,454	6,015,000
Allowances Offered by MELCCFP Consignment ³	-	-	40,084	40,084	-
Allowances Offered by MELCCFP	54	16	6,291,065	6,291,135	1,196,000
Total Allowances Offered for Sale	54	16	51,179,645	51,179,715	7,211,000

Table 2: Allowances Sold in the August 2024 Joint Auction #40

Description of Allowances	Current Auction Vintage 2019	Current Auction Vintage 2021	Current Auction Vintage 2024	Current Auction Vintage Total	Advance Auction Vintage 2027
Allowances Sold for CA Entity Consignment	-	-	19,577,042	19,577,042	-
Allowances Sold for CARB	-	-	25,271,454	25,271,454	6,015,000
Allowances Sold for MELCCFP Consignment ³	-	-	40,084	40,084	-
Allowances Sold for MELCCFP	54	16	6,291,065	6,291,135	1,196,000
Total Allowances Sold at Auction	54	16	51,179,645	51,179,715	7,211,000

Table 3: Auction Data for August 2024 Joint Auction #40

Auction Data	Current Auction	Advance Auction
Total Qualified Bids Divided by Total Allowances Available for Sale	1.57	1.87
Proportion of Allowances Purchased by Compliance Entities	85.61%	76.58%
Herfindahl-Hirschman Index	525	1110

Qualified Bid Summary Statistics

All Qualified Bid Summary Statistics are determined in USD including all bids submitted in USD and CAD. The CAD equivalent of the USD Qualified Bid Summary Statistics is based on the Auction Exchange Rate. USD statistics are converted into CAD in whole cents to be able to compare statistics on a common basis. The Auction Exchange Rate for this auction was 1.3723 CAD to one USD.

Table 4: Qualified Bid Summary Statistics for August 2024 Joint Auction #40

Auction Statistics	Current Auction USD	Current Auction CAD	Advance Auction USD	Advance Auction CAD
Auction Reserve Price	\$24.04	\$32.99	\$24.04	\$32.99
Settlement Price	\$30.24	\$41.50	\$29.75	\$40.83
Maximum Price	\$72.21	\$99.09	\$44.21	\$60.67
Minimum Price	\$24.04	\$32.99	\$24.04	\$32.99
Mean Price	\$33.21	\$45.57	\$29.38	\$40.32
Median Price	\$31.74	\$43.56	\$29.99	\$41.16
Median Allowance Price	\$32.40	\$44.46	\$29.91	\$41.05

List of qualified bidders for the August 2024 Joint Auction #40

A qualified bidder is an entity that completed an auction application, submitted a bid guarantee³ that was accepted by the Financial Services Administrator, and was approved by CARB or MELCCFP to participate in the auction. Qualified bidders may or may not have participated in the auction.

CITSS Entity ID	Entity Legal Name
CA1827	ACT Commodities, Inc.
CA1185	Aera Energy, LLC
CA1019	Air Liquide Large Industries U.S., LP
CA3235	Amet Partners, LP
CA3063	BNP Paribas US Wholesale Holdings, Corporation
CA3101	Boston Energy Trading and Marketing, LLC
CA1913	BP Products North America, Inc.
CA3065	Braeswood Carbon Partners, LP
CA2935	Brookdale Receivables, LLC
CA1108	California Resources Elk Hills, LLC
CA1119	Calpine Energy Services, LP
CA2678	Canadian Imperial Bank of Commerce
CA1075	Chevron U.S.A., Inc.
CA3163	Citadel Energy Marketing, LLC
CA1112	Citigroup Energy, Inc.
CA1732	City of Long Beach, Gas and Oil Department
CA1038	City of Palo Alto
CA1344	City of Shasta Lake
CA1166	City of Vernon, Vernon Public Utilities
CA1110	Constellation Energy Generation, LLC
QC1901	Coopérative de solidarité Carbone
CA2050	CP Energy Marketing (US), Inc.
CA3307	DRW Investments, LLC
CA1091	DTE Energy Trading, Inc.
QC1384	Énergie Valero Inc.

³ The term “bid guarantee” refers to “bid guarantee” as described in the California Regulation and “financial guarantee” as defined in the Québec Regulation.

CITSS Entity ID	Entity Legal Name
QC2711	Formica Canada Inc
CA1081	Foster Poultry Farms
CA3228	Garberville Gas Corporation
QC1764	Gestion Énergie Québec Inc.
QC1458	Glencore Canada Corporation
CA3287	Global Carbon Opportunity (SPV) Fund, LLC
CA3707	Grove Carbon Fund I, LP
QC2501	Harnois Énergies Inc.
QC1359	Hydro-Québec
CA1293	J. Aron & Company, LLC
CA1727	Jaco Oil Company
CA2932	Kcarbon Holdings, LLC
CA1141	Kern Oil & Refining Company
CA3737	KWM Asymmetric Opportunities Fund, LLC
QC1444	Lafarge Canada Inc.
QC1431	Lantic Inc.
CA1233	Liberty Utilities (CalPeco Electric), LLC
CA3641	LMR Master Fund DD, LLC
CA1104	Macquarie Energy, LLC
CA3264	MARATHON PETROLEUM COMPANY, LP
CA2645	Mercuria Energy America, LLC
CA3248	Merritt Point Environmental Opportunities Fund, LP
CA1261	Midstream Energy Partners (USA), LLC
CA1107	Midway Sunset Cogeneration Company
CA3032	Molecule Ventures, LP
CA1239	Morgan Stanley Capital Group, Inc.
CA1302	Naftex Operating Company
CA1191	Northern California Power Agency
QC3230	Olymel S.E.C.
CA1046	Pacific Gas and Electric Company
CA2046	Pacific Gas and Electric Company
CA3165	Pacific Summit Energy, LLC
CA1034	PacifiCorp
CA2106	PBF Energy Western Region, LLC

CITSS Entity ID	Entity Legal Name
QC1706	Pétrolière Impériale
CA1279	Phillips 66 Company
CA1595	Pixley Cogen Partners, LLC
CA1003	Plumas-Sierra Rural Electric Cooperative
CA3759	Pothos Carbon Fund I, LP
CA1505	Powerex Corporation
QC1474	Produits Suncor Énergie S.E.N.C.
CA1102	Royal Bank of Canada
CA1163	Sacramento Municipal Utility District (SMUD)
CA1085	San Diego Gas & Electric Company
CA1760	San Diego Gas and Electric Company
CA3207	SARHEN CCA, LP
CA1251	Shell Energy North America (US), LP
QC2781	Sivaco Wire Group 2004 L.P.
CA1029	Southern California Edison Company
CA1170	Southern California Gas Company
CA1674	Southwest Gas Corporation
CA1921	Statkraft US, LLC
CA1346	United States Gypsum Company
CA1598	United States Pipe & Foundry Company, LLC
CA1635	Valero Marketing and Supply Company
CA1135	Vitol, Inc.
QC2174	W.O. Stinson & Son Ltd

Explanatory Notes: Qualified Bid Summary Statistics for Current Auction

General Term	Explanation
Total Allowances Available for Sale:	Total allowances available, by vintage, for purchase in the Current Auction, including allowances consigned by California consigning entities and allowances offered for sale by the State of California, and allowances offered by Québec consignment and allowances offered for sale by Québec.
Total Allowances Sold at Auction:	Total allowances purchased, by vintage, in the Current Auction in metric tons.
Total Qualified Bids Divided by Total Allowances Available for Sale:	Total number of allowances (all vintages) included in all the qualified bids for the Current Auction allowances (regardless of bid price) divided by the total number of Current Auction allowances available in the auction.
Proportion of Allowances Purchased by Compliance Entities:	The total number of Current Auction allowances (by vintage) purchased in the Current Auction by Compliance Entities divided by the total number of Current Auction allowances sold in the Current Auction. A Compliance Entity is a Covered Entity or Opt-in Covered Entity as defined in California's Cap-and-Trade Regulation or an Emitter as defined in Québec's Cap-and-Trade Regulation.

General Term**Explanation**

Herfindahl–Hirschman Index (HHI):

The HHI is a measure of the concentration of allowances purchased by winning bidders relative to the total sale of Current Auction allowances (regardless of vintage) in the auction. The percentage of allowances purchased by each winning bidder is squared and then summed across all winning bidders. The HHI can range up to 10,000, representing 100% of the current vintage allowances purchased by a single bidder (i.e., $100 \times 100 = 10,000$).

Qualified Bid Price Summary Statistics:

Statistics are calculated from all the qualified bids for the Current Auction allowances (regardless of bid price). All price statistics are shown in USD and CAD.

Qualified Bids:

The bids that remain after a qualified bidder's submitted bids have been evaluated and reduced to meet all bidding limitations.

Auction Reserve Price:

The minimum acceptable auction bid price for Current Auction allowances shown in both USD and CAD per metric ton.

Settlement Price:

The Current Auction allowance price, in USD and CAD per metric ton as determined by the auction settlement process, that all successful bidders will pay for awarded allowances.

General Term	Explanation
Maximum Price:	Highest qualified bid price.
Minimum Price:	Lowest qualified bid price.
Mean Price:	Average qualified bid price calculated as the sum of the qualified bid prices times the bid allowances at each qualified bid price divided by the sum of all qualified bid allowances.
Median Price:	The price per metric ton calculated so that 50% of the qualified bid prices fall above and 50% fall below the median bid price.
Median Allowance Price:	The price per metric ton calculated so that 50% of the qualified bid allowances fall above and 50% fall below the median allowance price.
Auction Exchange Rate (USD to CAD FX Rate):	The exchange rate in effect for the joint auction that is set the business day prior to the joint auction as the most recently available daily average exchange rate for USD and CAD as published by the Bank of Canada the day before the joint auction.

Advance Auction

The statistics presented in the report for the Advance Auction are computed in the same manner as the statistics computed for the Current Auction. No allowances are consigned by California consigning entities or by MELCCFP to the Advance Auction.

