# California Cap-and-Trade Program, Ontario Cap-and-Trade Program, and Québec Cap-and-Trade System May 2018 Joint Auction #15

### **Summary Results Report**

### **Background**

The California Air Resources Board (CARB), Ontario Ministry of the Environment and Climate Change (MOECC), and Québec's ministère du Développement durable, de l'Environnement et de la Lutte contre les changements climatiques (MDDELCC)¹ held a joint auction of greenhouse gas (GHG) allowances on May 15, 2018. The auction included a Current Auction of 2016 and 2018 vintage allowances and an Advance Auction of 2021 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, MOECC, and MDDELCC 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, Ontario, 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 2016/2018 vintage allowances and for the Advance Auction of 2021 vintage allowances. The auction algorithm correctly applied the 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, MOECC, and MDDELCC approve the May Auction results.

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, Ontario, 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

<sup>&</sup>lt;sup>1</sup> Ministry of Sustainable Development, Environment and the Fight against Climate Change.









proceeds by June 11, 2018. 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. Ontario and 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 June 11, 2018, providing the final amount of proceeds transferred.

#### **Auction Results**

The first table below provides key data and information on the results of the auction. The second 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: Auction Results for May 2018 Joint Auction #15

	Current Auction		Advance Auction	
	2016 Vintage	2018 Vintage	Total Current	2021 Vintage
Total Allowances Available for Sale	13,368,884	77,218,854	90,587,738	12,427,950
CA Entity Consignment	-	14,569,443	14,569,443	-
CARB	11,436,180	31,175,277	42,611,457	8,020,000
MOECC	-	23,743,316	23,743,316	3,026,450
MDDELCC	1,932,704	7,730,818	9,663,522	1,381,500
Total Allowances Sold at				
Auction	13,368,884	77,218,854	90,587,738	6,057,000
CA Entity Consignment	-	14,569,443	14,569,443	-
CARB	11,436,180	31,175,277	42,611,457	3,908,701
MOECC	-	23,743,316	23,743,316	1,474,998
MDDELCC	1,932,704	7,730,818	9,663,522	673,301
Total Qualified Bids Divided by	Total Allowance	s Available for	Sale 1.36	0.49
Proportion of Allowances Purchased by Compliance Entities 95.6%			77.7%	
Herfindahl-Hirschman Index	668	668		1444









## **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.

Table 2: Qualified Bid Summary Statistics for May 2018 Joint Auction #15

	Current 2016/2018 Vintage		Advance 2021 Vintage	
	USD	CAD	USD	CAD
Auction Reserve Price	\$14.53	\$18.56	\$14.53	\$18.56
Settlement Price	\$14.65	\$18.72	\$14.53	\$18.56
Maximum Price	\$54.27	\$69.33	\$21.91	\$27.99
Minimum Price	\$14.53	\$18.56	\$14.53	\$18.56
Mean Price	\$15.51	\$19.81	\$14.70	\$18.78
Median Price	\$14.66	\$18.73	\$14.62	\$18.68
Median Allowance Price	\$14.85	\$18.97	\$14.58	\$18.63

Auction Exchange Rate (USD to CAD) 1.2775









## List of qualified bidders for the May 2018 Joint Auction #15

A qualified bidder is an entity that completed an auction application, submitted a bid guarantee<sup>2</sup> that was accepted by the Financial Services Administrator, and was approved by CARB, MOECC, or MDDELCC to participate in the auction. Qualified bidders may or may not have participated in the auction.

CITSS Entity ID	Entity Legal Name
QC2659	1055585 Ontario Inc
ON2465	1308998 Ontario Ltd.
ON2306	1329606 Ontario Limited
QC2101	1443635 Ontario Inc
ON2147	2089956 Ontario Inc.
CA1185	Aera Energy, LLC
CA1019	Air Liquide Large Industries U.S., LP
CA1561	AltaGas Power Holdings (U.S.), Inc.
CA1913	BP Products North America, Inc.
QC2193	Bridgestone Canada Inc.
CA1108	California Resources Elk Hills, LLC
ON2676	Canadian Pacific Railway Company
ON2532	Centre Lane Trading Limited
CA1075	Chevron U.S.A., Inc.
CA1732	City of Long Beach, Gas and Oil Department
CA1443	City of Los Angeles, Department of Airports
CA1073	City of Roseville
CA1166	City of Vernon, Vernon Public Utilities
QC2631	Compagnie des chemins de fer nationaux du Canada
QC1901	Coopérative de solidarité Carbone
CA2648	CWP Energy, Inc.
CA1417	Direct Energy Business, LLC
ON2509	Econo Petroleum Inc.
ON2414	Elbow River Marketing Ltd
ON2176	Enbridge Gas Distribution Inc.
ON2458	Énergie Valero Inc / Valero Energy Inc
QC1384	Énergie Valero Inc.
QC1502	Énergir, s.e.c.
ON2696	Energy Source Natural Gas Inc.

<sup>&</sup>lt;sup>2</sup> The term "bid guarantee" refers to "bid guarantee" as described in the California Regulation, "financial guarantee" as defined in the Québec Regulation, and "financial assurance" as described in the Ontario Regulation.





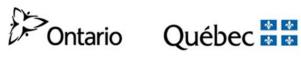




CITSS Entity ID	Entity Legal Name
QC1515	Entreprise Indorama PTA Montréal S.E.C.
ON2329	EPCOR Natural Gas Limited Partnership
CA1110	Exelon Generation Company, LLC
ON2402	Factor Gas Liquids Inc.
ON2253	Federated Co-operatives Limited
CA1260	Flyers Energy, LLC
CA1081	Foster Poultry Farms
QC1750	Gazifère Inc.
QC1764	Gestion Énergie Québec Inc.
ON2162	Goodyear Canada Inc
ON2470	Grant's Transport Limited
ON2330	Great Lakes Greenhouses Inc.
ON2240	Greater Toronto Airports Authority
ON2203	Greenergy Fuels Canada Inc.
ON2388	Greenfield Energy Centre LP
QC2118	Hamel Propane Inc.
ON2361	Hiram Walker & Sons Ltd.
ON2315	Husky Oil Operations Limited
ON2288	Hydro One Networks Inc.
QC1359	Hydro-Québec
CA1807	Idemitsu Apollo
ON2189	Imperial Oil
ON2210	Ivaco Rolling Mills 2004 L.P.
CA1727	Jaco Oil Company
CA1141	Kern Oil & Refining Company
ON2356	Koch Supply & Trading, LP
ON2504	Larry Penner Enterprises Inc.
QC2501	Le Groupe Harnois Inc
QC1770	Les Pétroles Irving Commercial s.e.n.c
QC1730	Les Produits Pétroliers Norcan S.E.N.C
CA1111	Los Angeles Department of Water & Power
CA1830	Luminus Energy Partners, LLC
ON2439	MacEwen Petroleum Inc.
CA1104	Macquarie Energy, LLC
ON2187	Markham District Energy Incorporated
ON2457	McDougall Energy Inc.
CA2645	Mercuria Energy America, Inc.
CA1107	Midway Sunset Cogeneration Company
ON2449	Mighty Flame Canada Inc.





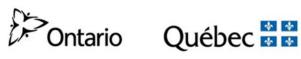




CA1302 Naftex Operating Company ON2324 Nature Fresh Farms Inc. CA1672 NextEra Energy Marketing, LLC QC2107 NGL Supply Co. Ltd. CA1191 Northern California Power Agency CA1138 NRG Power Marketing, LLC ON2304 Ontario Power Generation Inc. CA1046 Pacific Gas and Electric Company CA2046 Pacific Gas and Electric Company CA2106 PBF Energy Western Region, LLC ON2345 Pembina Infrastructure and Logistics LP ON2477 Pétrole Léger Inc. CA1279 Phillips 66 Company CA1595 Pixley Cogen Partners, LLC ON2190 Plains Midstream Canada ULC CA1003 Plumas-Sierra Rural Electric Cooperative CA1304 Portland General Electric Company CA1505 Powerex Corporation ON2348 Primemax Energy Inc. CA1271 Robinson Oil Supply & Transport, Inc. CA1274 Robinson Oil Supply & Transport, Inc. CA1774 Robinson Oil Supply & Transport, Inc. CA1102 Royal Bank of Canada CA1102 Royal Bank of Canada CA1103 Sacramento Municipal Utility District (SMUD) CA1085 San Diego Gas & Electric Company CA160 San Diego Gas & Electric Company CA160 San Diego Gas & Power Marketing, LLC CA1011 San Joaquin Refining Company, Inc. CA2175 Sempra Gas & Power Marketing, LLC CA1366 Seneca Resources Corporation CA2358 Sentialian Enterprises CA1170 Southern California Gas Company	CITSS Entity ID	Entity Legal Name
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CA1774 Robinson Oil Supply & Transport, Inc.  ON2445 Royal Bank of Canada  CA1102 Royal Bank of Canada  CA1163 Sacramento Municipal Utility District (SMUD)  CA1085 San Diego Gas & Electric Company  CA1760 San Diego Gas and Electric Company  CA1011 San Joaquin Refining Company, Inc.  CA2175 Sempra Gas & Power Marketing, LLC  CA1366 Seneca Resources Corporation  CA2358 Sentinel Peak Resources California, LLC  CA1251 Shell Energy North America (US), LP  CA1757 Shiralian Enterprises  CA1170 Southern California Gas Company  CA1800 Southern Counties Oil Company, a California Limited Partnership  CA1674 Southwest Gas Corporation	QC1731	Propane Québec Inc.
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CA1085  San Diego Gas & Electric Company  CA1760  San Diego Gas and Electric Company  CA1011  San Joaquin Refining Company, Inc.  CA2175  Sempra Gas & Power Marketing, LLC  CA1366  Seneca Resources Corporation  CA2358  Sentinel Peak Resources California, LLC  CA1251  Shell Energy North America (US), LP  CA1757  Shiralian Enterprises  CA1170  Southern California Gas Company  CA1800  Southern Counties Oil Company, a California Limited Partnership  CA1674  Southwest Gas Corporation	CA1102	Royal Bank of Canada
CA1760 San Diego Gas and Electric Company CA1011 San Joaquin Refining Company, Inc. CA2175 Sempra Gas & Power Marketing, LLC CA1366 Seneca Resources Corporation CA2358 Sentinel Peak Resources California, LLC CA1251 Shell Energy North America (US), LP CA1757 Shiralian Enterprises CA1170 Southern California Gas Company CA1800 Southern Counties Oil Company, a California Limited Partnership CA1674 Southwest Gas Corporation	CA1163	Sacramento Municipal Utility District (SMUD)
CA1011 San Joaquin Refining Company, Inc.  CA2175 Sempra Gas & Power Marketing, LLC  CA1366 Seneca Resources Corporation  CA2358 Sentinel Peak Resources California, LLC  CA1251 Shell Energy North America (US), LP  CA1757 Shiralian Enterprises  CA1170 Southern California Gas Company  CA1800 Southern Counties Oil Company, a California Limited Partnership  CA1674 Southwest Gas Corporation	CA1085	San Diego Gas & Electric Company
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CA2358 Sentinel Peak Resources California, LLC CA1251 Shell Energy North America (US), LP CA1757 Shiralian Enterprises CA1170 Southern California Gas Company CA1800 Southern Counties Oil Company, a California Limited Partnership CA1674 Southwest Gas Corporation	CA2175	Sempra Gas & Power Marketing, LLC
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CA1757 Shiralian Enterprises CA1170 Southern California Gas Company CA1800 Southern Counties Oil Company, a California Limited Partnership CA1674 Southwest Gas Corporation	CA2358	Sentinel Peak Resources California, LLC
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CA1800 Southern Counties Oil Company, a California Limited Partnership CA1674 Southwest Gas Corporation	CA1170	Southern California Gas Company
· · · · · · · · · · · · · · · · · · ·	CA1800	Southern Counties Oil Company, a California Limited Partnership
ON2244 St. David's Hydroponics Ltd	CA1674	Southwest Gas Corporation
	ON2244	St. David's Hydroponics Ltd









CITSS Entity ID	Entity Legal Name
CA1804	Stan Boyett & Son, Inc.
CA1921	Statkraft US, LLC
ON2474	St-Pierre Fuels Inc
ON2151	Suncor Energy Products Partnership
QC1486	TEMBEC
CA1165	Tesoro Refining & Marketing Company, LLC
ON2299	The Corporation of the City of Kingston
ON2381	The Corporation of the City of Kitchener
ON2359	The International Group Inc.
CA1888	The Soco Group, Inc.
CA2100	Tricor Refining, LLC
CA1216	Turlock Irrigation District
ON2165	Union Gas Limited
CA1346	United States Gypsum Company
CA1635	Valero Marketing and Supply Company
CA1135	Vitol, Inc.
ON2514	W. O. Stinson & Son Limited
QC2066	W.R. Grace Canada Corp.
CA1229	Walnut Creek Energy, LLC
CA2056	Wild Goose Storage, LLC









## **Explanatory Notes: Qualified Bid Summary Statistics**

#### **Current Auction**

Total Allowances Available for Sale: Total allowances available, by vintage, for

purchase in the Current Auction, including allowances consigned by consigning entities and allowances offered for sale by the State of California, the Province of Ontario, and the Province of 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, a Capped Participant as defined in Ontario's Cap-and-Trade Regulation, or an Emitter as defined in Québec's Cap-and-Trade Regulation.

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.,100x100=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 that

resulted from the auction, in USD and CAD

per metric ton.

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 consigning entities to the Advance Auction.







