# California Cap-and-Trade Program and Québec Cap-and-Trade System August 2015 Joint Auction #4

#### **Summary Results Report**

#### Background

The California Air Resources Board (ARB) and Québec's ministère du Développement durable, de l'Environnement et de la Lutte contre les changements climatiques (MDDELCC)<sup>1</sup> held the fourth joint auction of greenhouse gas (GHG) allowances on August 18, 2015. The auction included a Current Auction of 2015 vintage allowances and an Advance Auction of 2018 vintage allowances. The information provided in this report is a balance between the need for program transparency and protection of individual auction participants' market positions.

Prior to the certification of the auction, ARB and MDDELCC staff and the 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. 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 participant for the auction for 2015 vintage allowances and for the auction for 2018 vintage allowances. The auction algorithm correctly applied the regulation requirements covering the bid guarantee. The tie breaker logic was needed in this auction. The Market Monitor did not observe any breaches of security or communication protocols. The Market Monitor recommends that ARB and MDDELCC approve the August 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 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.

Proceeds to the jurisdictions are paid after all bidder payments are received and will occur by September 14, 2015. As provided in the California Cap-and-Trade Regulation, sellers who consigned allowances in this auction will be paid the auction settlement

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







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 and Québec must receive auction proceeds only in CAD. Thus, the total amount of auction proceeds received by California and by Québec from the sale of state- and province-owned allowances may vary (upwards or downwards) depending on the prevailing exchange rates in effect at the time of distribution of auction proceeds. Each jurisdiction will issue a Post Joint Auction Public Proceeds Report on September 14, 2015 providing the final amount of proceeds transferred.

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#### **Auction Results**

	Current Auction	Advance Auction
Summary Metric	2015 Vintage	2018 Vintage
Total Allowances Available for Sale	73,429,360	10,431,500
CA Entity Consignment	19,559,287	
ARB	42,698,426	8,957,500
MDDELCC	11,171,647	1,474,000
Total Allowances Sold at Auction	73,429,360	10,431,500
CA Entity Consignment	19,559,287	
ARB	42,698,426	8,957,500
MDDELCC	11,171,647	1,474,000
Total Qualified Bids Divided by Total Allowances		
Available for Sale	1.28	1.78
Proportion of Allowances Purchased by		
Compliance Entities	95.2%	93.6%
Herfindahl-Hirschman Index	597	1693



### **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.

	Current Vintage		2018 Vintage	
Qualified Bid Price Summary Statistics	USD	CAD	USD	CAD
Auction Reserve Price	\$12.10	\$15.84	\$12.10	\$15.84
Settlement Price	\$12.52	\$16.39	\$12.30	\$16.10
Maximum Price	\$45.21	\$59.18	\$18.57	\$24.31
Minimum Price	\$12.10	\$15.84	\$12.10	\$15.84
Mean Price	\$13.73	\$17.98	\$12.54	\$16.42
Median Price	\$12.56	\$16.44	\$12.71	\$16.64
Median Allowance Price	\$12.70	\$16.63	\$12.36	\$16.18
Auction Exchange Rate (USD to CAD)				1.3091

### List of Qualified Bidders for the Current Auction of 2015 Vintage Allowances and the Advance Auction of 2018 Vintage Allowances

A Qualified Bidder is an entity that completed an auction application or confirmed an intent to bid for the auction, submitted an acceptable bid guarantee, and was approved by ARB or MDDELCC to participate in the auction.

Aera Energy, LLC

AltaGas Power Holdings (U.S.), Inc.

Bell-Gaz Itée

**BNSF** Railway Company

BP Products North America Inc.

California Department of Water Resources

California Resources Elk Hills, LLC

Calpine Energy Services, L.P.

Cargill Power Markets, LLC

CGC, Inc.

Chevron U.S.A., Inc.

City of Anaheim, Public Utilities Department

City of Cerritos

City of Palo Alto

City of Roseville

City of Shasta Lake

City of Vernon, Vernon Gas & Electric

ClimeCo Corporation

CP Energy Marketing (US), Inc.

EDF Trading North America, LLC

Énergie Valero Inc.

Exelon Generation Company, LLC

**Exxon Mobil Corporation** 

Flyers Energy, LLC

Freeport-McMoRan Oil & Gas, LLC

Gazifère, Inc.

Gestion Énergie Québec, Inc.

High Desert Power Project, LLC

Hydro-Québec

Idemitsu Apollo

IPC (USA), Inc.

Jaco Oil Company

Kern Oil & Refining Co.

KES Kingsburg, L.P.

La Coop Carbone



Lafarge Canada, Inc.

Les Pétroles Irving Commercial s.e.n.c

Les Pétroles Irving Marketing s.e.n.c.

Les Produits Pétroliers Norcan S.E.N.C

Liberty Utilities (CalPeco Electric), LLC

Los Angeles Department of Water & Power

Luminus Energy Partners, LLC

Macquarie Energy, LLC

Modesto Irrigation District

Morgan Stanley Capital Group, Inc.

Morgan Stanley Capital Group, Inc.

NextEra Energy Power Marketing, LLC

NGL Supply Co Ltd

Northern California Power Agency

NRG Power Marketing, LLC

Pacific Gas and Electric Company

**PacifiCorp** 

Petro Diamond Incorporated

Pétrolière Impériale

Phillips 66 Company

Pittsburg Power Company

Plumas-Sierra Rural Electric Cooperative

Portland General Electric Company

Pro Petroleum, Inc.

Produits Suncor Énergie S.E.N.C.

River City Petroleum

Robinson Oil Supply & Transport, Inc.

Royal Bank of Canada

Sacramento Municipal Utility District (SMUD)

San Diego Gas & Electric Company

San Diego Gas & Electric Company

San Diego Gas and Electric Company

San Joaquin Refining Company, Inc.

Sempra Generation

Seneca Resources Corporation

Shell Energy North America (US), L.P.

Shiralian Enterprises

Signal Hill Petroleum, Inc.

Silicon Valley Power (SVP), City of Santa Clara

Société en commandite Gaz Métro

Société en commandite Revenu Noranda

Southern California Edison Company
Southern California Gas Company
Southwest Gas Corporation
Statkraft US, LLC
Surprise Valley Electrification Corp.
Tesoro Refining & Marketing Company, LLC
TransAlta Energy Marketing (U.S.), Inc.
TransCanada PipeLines Limited
Turlock Irrigation District
Union Pacific Railroad Company
Vitol, Inc.
Walnut Creek Energy, LLC



## Explanatory Notes: Qualified Bid Summary Statistics Current Auction of 2015 Vintage Allowances

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

purchase in the Current Auction in metric tons, including allowances consigned by consigning entities and allowances sold by the State of California and the Province of

Québec.

Total Allowances Sold at Auction: Total allowances, by vintage, purchased 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 the 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



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allowances (regardless of bid price). All price statistics are shown in USD and CAD.

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

Minimum Price: Lowest qualified bid

Mean Price: Average qualified bid calculated as the sum

of the bid price times the bid quantity of each qualified bid divided by the sum of the bid quantities across all qualified bids.

Median Price: The price per metric ton calculated so that

50% of the qualified bids fall above and

below the median bid price.

Median Allowance Price: The price per metric ton calculated so that

50% of the quantity of allowances in the qualified bids fall above and below that

price median value.

Auction Exchange Rate (USD to CAD): The most recently available noon daily

buying rate for USD and CAD as published by the Bank of Canada the day before the

auction.

#### **Advance Auction of 2018 Vintage Allowances**

The data for future vintage allowances available for sale at the Advance Auction are computed in the same manner as computed for the Current Auction. No allowances are consigned to the Advance Auction.



