California Cap-and-Trade Program and Québec Cap-and-Trade System May 2015 Joint Auction #3

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)¹ held the third joint auction of greenhouse gas (GHG) allowances on May 21, 2015. The auction included a Current Auction of 2013 and 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 2013/2015 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 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 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 June 17, 2015. As provided in the California Cap-and-Trade Regulation, sellers who consigned allowances in this auction will be paid the auction settlement

¹ 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 June 17, 2015 providing the final amount of proceeds transferred.

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Auction Results

	Current Auction			Advance Auction
Summary Metric	2013 Vintage	2015 Vintage	Total	2018 Vintage
Total Allowances Available for Sale			76,931,627	10,431,500
CA Entity Consignment		21,114,878	21,114,878	
ARB		42,698,426	42,698,426	8,957,500
MDDELCC	1,946,676	11,171,647	13,118,323	1,474,000
Total Allowances Sold at Auction			76,931,627	9,812,000
CA Entity Consignment		21,114,878	21,114,878	
ARB		42,698,426	42,698,426	8,425,537
MDDELCC	1,946,676	11,171,647	13,118,323	1,386,463
Total Qualified Bids Divided by Total Allowances Available for Sale			1.16	0.94
Proportion of Allowances Purchased by Compliance Entities	93.6%	93.6%	93.6%	91.6%
Herfindahl-Hirschman Index	478	478	478	1381

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	\$14.78	\$12.10	\$14.78
Settlement Price	\$12.29	\$15.01	\$12.10	\$14.78
Maximum Price	\$45.21	\$55.21	\$18.59	\$22.70
Minimum Price	\$12.10	\$14.78	\$12.10	\$14.78
Mean Price	\$13.93	\$17.01	\$12.46	\$15.22
Median Price	\$12.50	\$15.27	\$14.52	\$17.73
Median Allowance Price	\$12.63	\$15.42	\$12.18	\$14.87
Auction Exchange Rate (USD to CAD)				1.2212

List of Qualified Bidders for the Current Auction of 2013 and 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.

ArcelorMittal Montréal, Inc.

Bell-Gaz Itée

BNSF Railway Company

California Department of Water Resources

California Resources Elk Hills, LLC.

Calpine Energy Services, L.P.

CalPortland Company

Cargill Power Markets, LLC

CGC, Inc.

Chevron U.S.A., Inc.

City of Anaheim, Public Utilities Department

City of Palo Alto

City of Shasta Lake

City of Vernon, Vernon Gas & Electric

ClimeCo Corporation

CP Energy Marketing (US), Inc.

Crestwood West Coast, LLC

CRI

EDF Trading North America, LLC

Énergie Valero, Inc.

Exelon Generation Company, LLC

Exxon Mobil Corporation

Flyers Energy, LLC

Foster Poultry Farms

Freeport-McMoRan Oil & Gas, LLC

Gazifère, Inc.

Gestion Énergie Québec Inc.

High Desert Power Project, LLC

Holcim (Canada), Inc.

Hydro-Québec

Idemitsu Apollo

IPC (USA), Inc.

J. Aron & Company

Jaco Oil Company



Kern Oil & Refining Co.

KES Kingsburg, L.P.

Kildair Service ULC

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

Luminus Energy Partners, LLC

Macquarie Energy, LLC

Mark McDivitt

Modesto Irrigation District

Morgan Stanley Capital Group, Inc.

Morgan Stanley Capital Group, Inc.

NextEra Energy Power Marketing, LLC

Noble Americas Gas & Power Corp.

Northern California Power Agency

NRG Power Marketing, LLC

Pacific Gas and Electric Company

PacifiCorp

Petro Diamond Incorporated

Pétrolière Impériale

Phillips 66 Company

Plumas-Sierra Rural Electric Cooperative

Portland General Electric Company

Powerex Corp.

Produits Suncor Énergie, S.E.N.C.

Propane Québec, Inc.

Regents of the University of California

Rio Tinto Minerals, Inc.

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 and Electric Company

Sempra Generation

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

Shiralian Enterprises

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

Stan Boyett & Son, Inc.

TEMBEC

Tesoro Refining & Marketing Company, LLC

The Bank of Nova Scotia

The Soco Group, Inc.

TransAlta Energy Marketing (U.S.), Inc.

TransCanada Energy, Ltd.

TransCanada PipeLines Limited

Turlock Irrigation District

Twin Rivers Technologies Enterprises de Transformation de Graines Oléangineuses du Québec, Inc.

Union Pacific Railroad Company

United Liquid Gas Company

United States Pipe & Foundry Co., LLC

Vitol, Inc.

Walnut Creek Energy, LLC

Wm. Bolthouse Farms, Inc.

Explanatory Notes: Qualified Bid Summary Statistics Current Auction of 2013 and 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

Québec **



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qualified bids for the Current Auction 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.

