



Regional Greenhouse Gas Initiative, Inc.
90 Church Street, 4th Floor
New York, NY 10007

Contact: Nora Vogel
RGGI, Inc.
212-417-3179
nora.vogel@rggi.org

Friday, June 15, 2018

CO₂ Allowances Sold for \$4.02 in 40th RGGI Auction

\$55.4 Million Raised for Reinvestment in Second Auction of 2018

NEW YORK — The nine New England and Mid-Atlantic states participating in the Regional Greenhouse Gas Initiative (RGGI), the nation's first market-based regulatory program to reduce greenhouse gas (GHG) pollution, today announced the results of their 40th auction of carbon dioxide (CO₂) allowances.

13,771,025 CO₂ allowances were sold at the auction at a clearing price of \$4.02. Bids for the CO₂ allowances ranged from \$2.20 to \$6.00 per allowance. Additional details are available in the [Market Monitor Report for Auction 40](#), which is also appended.

The auction generated \$55.4 million for reinvestment in strategic programs, including energy efficiency, renewable energy, direct bill assistance, and GHG abatement programs. Cumulative proceeds from all RGGI CO₂ allowance auctions amount to \$2.94 billion.

Ten million cost containment reserve (CCR) allowances were also available for sale. None of the CCR allowances were sold. The CCR is a fixed additional supply of allowances that are only available for sale if CO₂ allowance prices exceed certain price levels (\$10.25 in 2018).

The June 13th auction was the second auction of the fourth control period. RGGI compliance is structured based on three-year control periods, the fourth of which started at the beginning of 2018 and will last until the end of 2020. Recently available compliance results for the third control period showed that 98.8 percent of sources and 99.9 percent of emissions were in compliance at the end of the period.

"The RGGI states' quarterly auctions provide allowances to market participants, while also generating proceeds for the states to reinvest in a cleaner and more cost-effective energy system," said Ben Grumbles, Secretary of the Maryland Department of the Environment and Chair of the RGGI, Inc. Board of Directors. "Strong third control period compliance results show that our program is making allowances available to those entities that need them."

"The RGGI market continues to be competitive, as reported by our independent market monitor," said Katie Dykes, Chair of the Connecticut Public Utilities Regulatory Authority and Vice Chair of the RGGI, Inc. Board of Directors. "Auction reports, as well as the recently released annual report for 2017, have found broad participation and no sign of anti-competitive conduct."

Auction 40 Results At-A-Glance	
Auction Date	June 13, 2018
Allowances Offered for Sale	13,771,025
Allowances Sold	13,771,025
Ratio of Bids to Supply	3.1
Clearing Price	\$4.02
Reserve Price	\$2.20
Proceeds from Auction 40	\$55,359,520.50
Total Cumulative Proceeds (All Auctions)	\$2,942,593,588.52
Number of Bidders in Auction 40	43
Percent of Allowances Purchased by Compliance-Oriented Entities in Auction 40	36%
Percent of Allowances Purchased by Compliance Entities in Auction 40	36%
Percent of Allowances Purchased by Compliance Entities in Auctions 1 - 40	75%

More auction data is also available at: <https://www.rggi.org/auctions/auction-results>. Market monitor reports are available at: <https://www.rggi.org/auctions/market-monitor-reports>. To receive announcements relating to future auctions and other RGGI news, please join the RGGI, Inc. mailing list at <http://eepurl.com/h2ICM>.

About the Regional Greenhouse Gas Initiative (RGGI)

The New England and Mid-Atlantic states participating in the fourth RGGI control period (Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont) have implemented the first mandatory market-based regulatory program in the U.S. to reduce greenhouse gas emissions. The 2018 RGGI cap is 82.2 million short tons. The RGGI states also include interim adjustments to the RGGI cap to account for banked CO₂ allowances. The 2018 RGGI adjusted cap is 60.3 million short tons.

RGGI is composed of individual CO₂ budget trading programs in each state, based on each state's independent legal authority. A CO₂ allowance represents a limited authorization to emit one short ton of CO₂, as issued by a respective state. A regulated power plant must hold CO₂ allowances equal to its emissions for each three-year control period. RGGI's fourth control period began on January 1, 2018 and extends through December 31, 2020. For more information visit www.rggi.org

About Regional Greenhouse Gas Initiative, Inc.

Regional Greenhouse Gas Initiative, Inc. (RGGI, Inc.) was created to provide technical and administrative services to the states participating in the Regional Greenhouse Gas Initiative. RGGI, Inc. is a 501(c)(3) nonprofit organization. For more information, visit: www.rggi.org/rggi-inc/contact

RGGI Inc.



**MARKET MONITOR REPORT
FOR AUCTION 40**

Prepared for:

RGGI, Inc., on behalf of the RGGI Participating States

Prepared By:

**POTOMAC
ECONOMICS**

June 15, 2018

This report was prepared by Potomac Economics (the contractor) in the course of performing work contracted for and sponsored by RGGI, Inc. on behalf of states participating in RGGI (Connecticut, Delaware, Maine, Maryland, Massachusetts, New Hampshire, New York, Rhode Island, and Vermont). The opinions expressed in this report do not necessarily reflect those of RGGI, Inc. or any of the states participating in RGGI, and reference to any specific product, service, process, or method does not constitute an implied or expressed recommendation or endorsement of it. Further, RGGI, Inc., the states participating in RGGI, and the contractor make no warranties or representations, expressed or implied, as to the fitness for particular purpose or merchantability of any product, apparatus, or service, or the usefulness, completeness, or accuracy of any processes, methods, or other information contained, described, disclosed, or referred to in this report. RGGI, Inc., the states participating in RGGI, and the contractor make no representation that the use of any product, apparatus, process, method, or other information will not infringe privately owned rights and will assume no liability for any loss, injury, or damage resulting from, or occurring in connection with, the use of information contained, described, disclosed, or referred to in this report.

The Regional Greenhouse Gas Initiative (RGGI) is the first mandatory market-based regulatory program in the U.S. to reduce greenhouse gas emissions. RGGI is a cooperative effort of Northeast and Mid-Atlantic states to reduce emissions of carbon dioxide (CO₂) from the power sector.

RGGI, Inc. is a non-profit corporation created to provide technical and administrative services to the states participating in the Regional Greenhouse Gas Initiative.

MARKET MONITOR REPORT FOR AUCTION 40

As the Market Monitor for the RGGI CO₂ allowance market, Potomac Economics monitors the conduct of market participants in the auctions and in the secondary market to identify indications of market manipulation or collusion. We also review the administration of the auctions by EnerNOC, Inc. This report summarizes our findings regarding RGGI Auction 40, which was held on June 13, 2018.

We observed the auction as it occurred and have completed our review and analysis of its results. Based on our review of bids in the auction, we find no material evidence of collusion or manipulation by bidders.

Forty-three bidders participated in the offering of CO₂ allowances. Bids were submitted to purchase 3.1 times the available supply of allowances, resulting in a clearing price of \$4.02 per ton. Compliance-Oriented Entities purchased 36 percent of the allowances in the offering. There was no indication of barriers to participation in the auction.

Based on our review of the administration of the market, we found that:

- The auction was administered in a fair and transparent manner in accordance with the noticed auction procedures and limitations.
- The auction results were consistent with the market rules and the bids received.
- Sensitive information was treated appropriately by the auction administrator.
- There were no indications of issues with the auction platform such as hardware or software problems, communications issues, or security breaches.

In summary, the results of our monitoring of RGGI Auction 40 raise no material concerns regarding the auction process, barriers to participation in the auction, or the competitiveness of the auction results. The appendix provides additional information about the market for RGGI CO₂ allowances and outcomes of the auction.

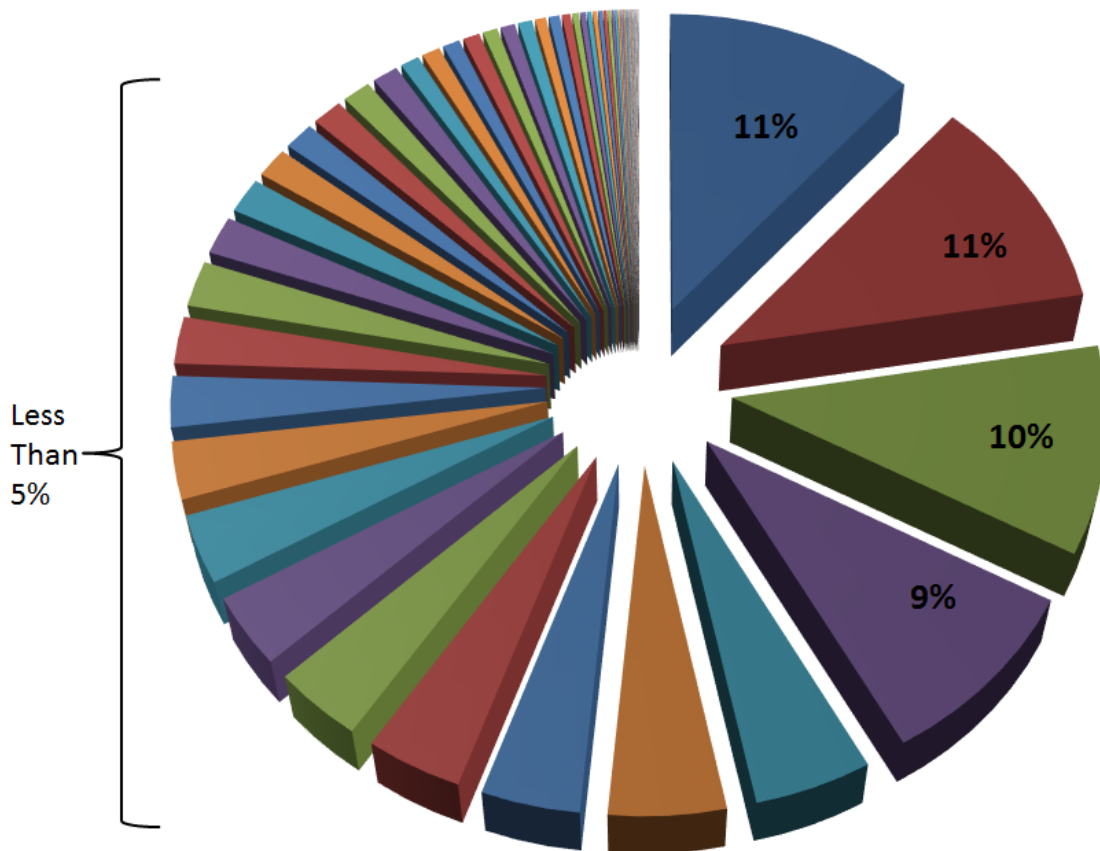
APPENDIX

A. DISPERSION OF PROJECTED DEMAND

The wide dispersion of projected demand for RGGI allowances across compliance entities facilitates the competitive performance of the auction.

The following figure shows the relative shares of projected demand for RGGI allowances by compliance entity in the current control period. The largest compliance entity represents only 11 percent of the total projected demand for allowances. Over half of the projected demand is composed of entities that each account for less than 5 percent of the total demand. Participation by a large number of entities facilitates the competitive performance of the auction.

Figure 1: Projected Demand for RGGI Allowances Shares by Compliance Entity

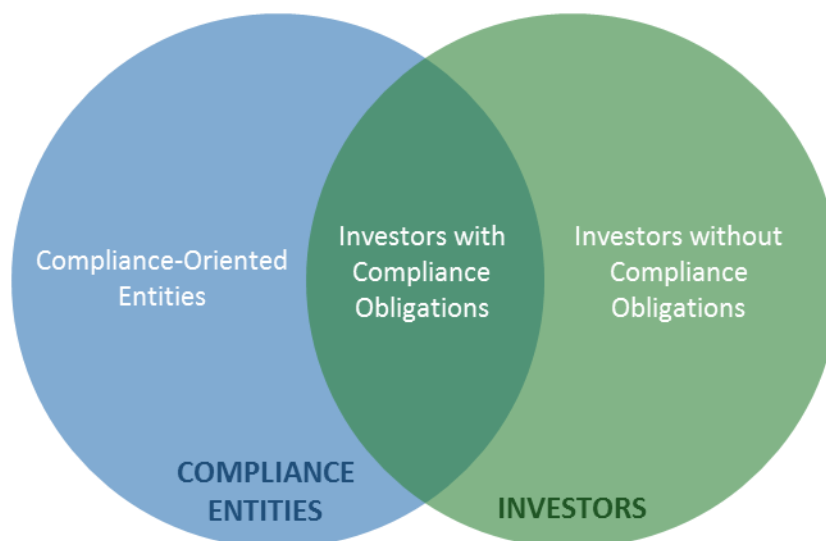


B. SUMMARY OF PURCHASES OF ALLOWANCES IN AUCTION 40

Awards were distributed across 32 bidders with three bidders purchasing two million tons or more and 12 bidders purchasing 300,000 tons or more.

This report summarizes participation in Auction 40. Participation in the RGGI market involves many different firms with various interests in RGGI allowances. Some participate in order to satisfy compliance obligations, others have investment interests, and still others participate for both purposes. To more effectively track the activity of different participants, we use several classifications for participant firms. Figure 2 summarizes the relationship between these classifications.

Figure 2: Classifications of Participant Firms in the RGGI Marketplace



- *Compliance-Oriented Entities* are compliance entities that appear to acquire and hold allowances primarily to satisfy their compliance obligations.
- *Investors with Compliance Obligations* are firms that have compliance obligations but which hold a number of allowances that exceeds their estimated compliance obligations by a margin suggesting they also buy for re-sale or some other investment purpose. These firms often transfer significant quantities of allowances to unaffiliated firms.¹

¹ The assessment of whether a compliance entity holds a number of allowances that exceeds its compliance obligations by a margin that suggests they are also buying for re-sale or some other investment purpose is based on: (a) the entity's forecasted share of the total compliance obligations for the entire RGGI footprint through 2020, (b) the total number of allowances in circulation, and (c) consideration of the pattern of the entity's allowance transfers to unaffiliated firms versus affiliated firms. Since the designation of a compliance entity as an investor is based on a review of its transactions and holdings, the designation of a particular firm may change

- *Investors without Compliance Obligations* are firms without any compliance obligations.

These three categories form the basis for two overlapping groups.

- *Compliance Entities* – All firms with compliance obligations, and their affiliates.² Combines the first and second of the above categories.
- *Investors* – All firms which are assessed to be purchasing for investment rather than compliance purposes. Combines the second and third of the above categories.

In Auction 40, Compliance Entities purchased 36 percent of the allowances sold. In the first 40 RGGI auctions, Compliance Entities purchased 75 percent of the allowances sold. In Auction 40, Compliance-Oriented Entities purchased 36 percent of the allowances sold.

After settlement of allowances sold in Auction 40:

- Thirty-six percent of the allowances in circulation will be held by Compliance-Oriented Entities.
- Forty-four percent of the allowances in circulation are believed to be held for compliance purposes. The number of allowances that are believed to be held for compliance purposes includes 100 percent of the allowances held by Compliance-Oriented Entities and a portion of allowances held by Investors with Compliance Obligations.

The following table shows the quantity of allowances purchased by each bidder. The identity of each bidder is masked, and the bidders are ranked according to the amount of allowances awarded, from largest to smallest.

over time as more information becomes available.

² Affiliates are firms that: (i) have a parent-subsidiary relationship with a compliance entity, (ii) are subsidiaries of a parent company that has a large interest in a compliance entity, (iii) have substantial control over the operation of a budget source and/or responsibility for acquiring RGGI allowances to satisfy its compliance obligations.

Table 1: Quantity of Allowances Awarded by Bidder

Bidder	Number of Allowances Awarded
Bidder 1	2,500,000
Bidder 2	2,425,000
Bidder 3	2,000,000
Bidder 4	985,000
Bidder 5	941,025
Bidder 6	800,000
Bidder 7	650,000
Bidder 8	650,000
Bidder 9	578,000
Bidder 10	500,000
Bidder 11	400,000
Bidder 12	300,000
Bidder 13	200,000
Bidder 14	150,000
Bidder 15	123,000
Bidder 16	100,000
Bidder 17	100,000
Bidder 18	83,000
Bidder 19	80,000
Bidder 20	54,000
Bidder 21	35,000
Bidder 22	25,000
Bidder 23	14,000
Bidder 24	12,000
Bidder 25	12,000
Bidder 26	11,000
Bidder 27	10,000
Bidder 28	8,000
Bidder 29	8,000
Bidder 30	8,000
Bidder 31	5,000
Bidder 32	4,000

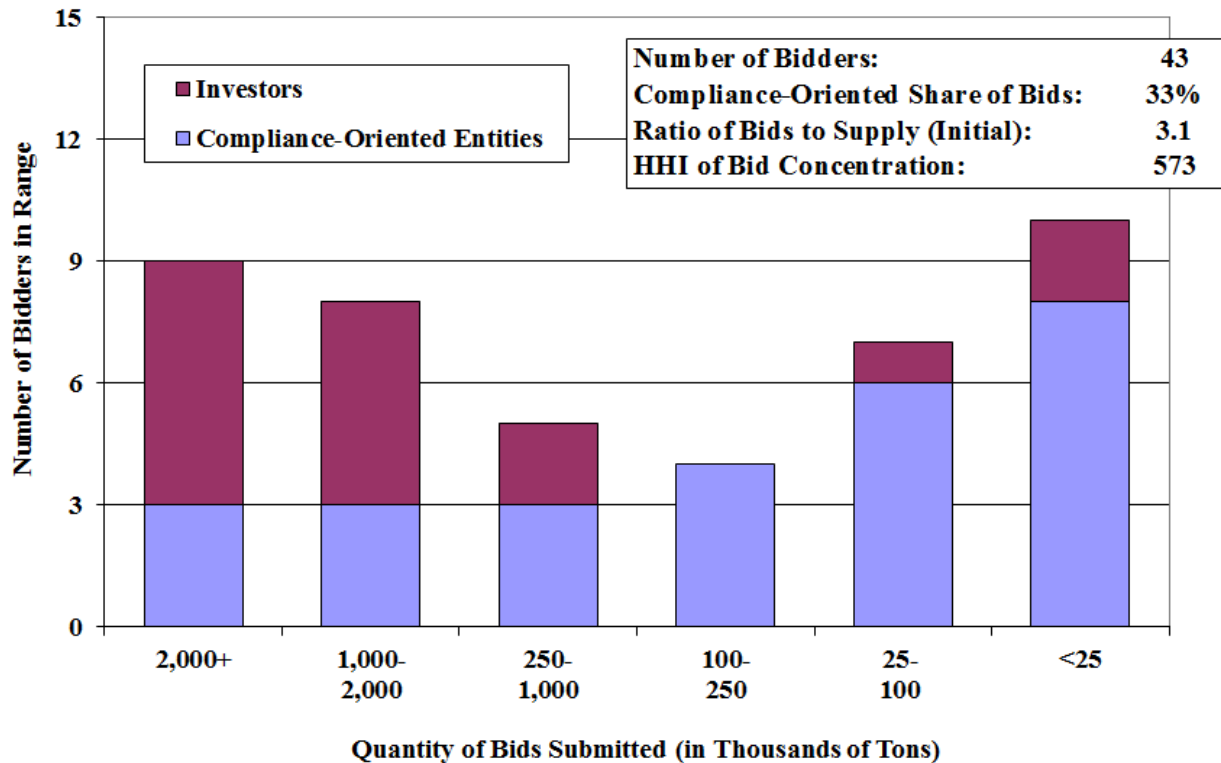
C. DISPERSION OF BIDS IN AUCTION 40

Bids were submitted by 27 Compliance-Oriented Entities and 16 Investors. In our review of the bids and the qualification process, we found no material evidence of anti-competitive conduct or inappropriate barriers to participation.

The following figure summarizes the quantity of allowances for which bids were submitted by each bidder. Three Compliance-Oriented Entities and six Investors submitted bids for a large quantity of allowances (i.e., at least 2 million tons). Overall, Compliance-Oriented Entities accounted for 33 percent of the quantity of allowances for which bids were submitted. The quantity of allowances for which bids were submitted was 3.1 times the available supply. In Auction 39, the quantity of allowances for which bids were submitted was 2.9 times the Initial Offering.

The bid quantities were widely distributed among the 43 bidders. The concentration of bids, using the Herfindahl-Hirschman Index (“HHI”), is relatively low at 573, consistent with recent auctions. The HHI is a standard measure of concentration calculated by squaring each entity’s share and then summing the squares across all entities (i.e., the index ranges from 0 to 10,000).

**Figure 3: Quantity of Bids Submitted by Entity
By Type of Entity and Quantity Bid**



D. SUMMARY OF BID PRICES IN AUCTION 40

Bids were submitted across a wide range of prices in the auction and the clearing price of \$4.02 was relatively consistent with average bid prices submitted.

The following table reports several statistics regarding the bid prices for bids submitted in Auction 40. The median and mean bid prices are weighted by the quantity of each bid.

Bid Prices:	
Minimum	\$2.20
Maximum	\$6.00
Average (Median)	\$3.94
Average (Mean)	\$3.80
Clearing Price:	\$4.02

E. NAMES OF POTENTIAL BIDDERS IN AUCTION 40

In accordance with Sections 2.8 and 3 of the Auction Notice for CO₂ Allowance Auction 40, the Participating States are releasing the names of Potential Bidders in Auction 40. The states defined potential bidders as: “Each Applicant that has been qualified and submitted a complete *Intent to Bid.*” The list of 48 Potential Bidders is as follows:

Adirondack Council Inc.	Luminus Energy Partners Master Fund, Ltd.
Astoria Energy, LLC	Macquarie Energy, LLC
BP Products North America Inc.	Massachusetts Muni. Wholesale Elec. Co.
Brooklyn Navy Yard Cogen Partners, LP	Mercuria Energy America, Inc.
Caithness Long Island, LLC	Morgan Stanley Capital Group, Inc.
Calpine Energy Services, LP	National Grid Gen. dba National Grid
Carbon Lighthouse Association	NextEra Energy Marketing, LLC
Consolidated Edison Comp. of NY, Inc.	NRG Power Marketing, LLC
CPV Maryland, LLC	Ocean State Power, LLC
CPV Towantic, LLC	Old Dominion Electric Cooperative
Delaware City Refining Company, LLC	Pinelawn Power, LLC
Delaware Municipal Electric Corp.	Power Authority of the State of New York
Direct Energy Business Marketing, LLC	PSEG Energy Resources & Trade, LLC
DTE Energy Trading, Inc.	RBC
Edgewood Energy, LLC	Roger Caiazza
Element Markets, LLC	Selkirk Cogen Partners, LP
Equus Power I, LP	Shell Energy North America (US), LP
Exelon Generation Company, LLC	Shoreham Energy, LLC
GenOn Energy Management, LLC	Statkraft US, LLC
Helix Ravenswood, LLC	Taunton Municipal Lighting Plant
Indeck-Corinth Limited Partnership	Verso Corporation
Kendall Green Energy, LLC	Village of Freeport
KMC Thermo, LLC	Vitol Inc.
Koch Supply & Trading, LP	Wallingford Energy, LLC