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Pilot Auction Facility

Challenge:

2010: Carbon credit prices collapsed, stranding methane abatement projects

Opportunity:

Methane Finance Study Group:

- 1,200 new methane mitigation projects were initiated, but not implemented, under carbon offset standards in developing countries, representing at least 850 Mt of CO2e in emission reductions over the period 2013 – 2020
- Abatement possible at < \$10/tCO2e

Goal:

 Incentivize cost-effective private sector action to achieve methane abatement through a result-based finance mechanism

PAF formation:

Germany, Sweden, Switzerland, and the United States, contributed \$53
 million in total resources to pilot climate auctions



The Challenge

- Efficient allocation of public funds to leverage private sector climate investments
- Public funders want to incentivize private sector climate activities
 - Concerns include:
 - Identifying the minimum level of subsidy needed by companies
 - Minimizing the administrative burden of selecting mitigation activities
 - Allocating climate funds to unlock and leverage private investment
 - Paying only for real results
- Companies make climate investments if they have a favorable risk-return profile
 - Concerns include:
 - Uncertain revenues and return on investments
 - Perceived high costs of action
 - Opaque, bureaucratic processes for securing public funds
- Host countries need to channel climate finance to activities that relate to the countries' climate commitments



What does the PAF Sell?

- The PAF offers "put options" to guarantee a price floor for future climate results
- The options offer the right, but not the obligation, to deliver climate results to the facility at a guaranteed future price
- Bidders compete on the price at which they are willing to deliver eligible results to the facility in the future
- The bidders that offer to deliver eligible results at the lowest cost win the auction





How do climate auctions work?

 A new approach, piloted by the World Bank, focuses climate funders on the ends and the private sector on the means

INTERNATIONAL DONORS /
NATIONAL FUNDS
Capitalize the auction facility,
committing to pay a fixed price
for a standardized climate
result



AUCTION FACILITY
Hosts auctions in which
companies (financiers, project
developers, project owners,
etc.) compete to receive a
share of the funding. Private
companies bid in the auction
on contracts to deliver climate
results in the future. Auction
winners pay a premium to
receive guarantee contracts.

AUCTION WINNER Winners generate or source climate results and deliver them to the

and deliver them to the facility. Third-party EHS audit and verification are required.



results must meet eligibility criteria established before the auction



PAF Auction Results

Auction 3: Nitrous Oxide (January 2017)

Auction 2: Methane (May 2016)

Auction 1: Methane

(July 2015)



PILOT AUCTION FACILITY

PAF Auction Results

Results of the pilot phase demonstrate low-cost mitigation potential

	Auction 1 July 2015	Auction 2 May 2016	Auction 3 January 2017	
Strike Price (\$/tCO ₂ e)	\$2.40	\$3.50	\$2.10	Totals
Premium Price (\$/tCO ₂ e)	\$0.30	\$1.41	\$0.30	
Net Benefit (\$/tCO ₂ e)	\$2.10	\$2.09	\$1.80	
Reductions (million tCO ₂ e)	8.7	5.7	6.2	20.6
Climate Finance Allocated (USD million)	\$20.9	\$20.0	\$13.0	\$53.9
Premium Funds Raised (USD million)	\$2.6	\$8.0	\$1.9	\$12.5
Budget (USD million)	\$25.0	\$20.0	\$13.0	



Pilot Auction Facility Impact

Impact

- In total, from 2016 2019, \$37.3 million dollars of climate finance have been paid in exchange for 14.1 million metric tons of CO2e
- Supported landfill gas-to-energy in Brazil, Chile, India, Malaysia, Mexico, Thailand, and Uruguay; wastewater treatment & biogas utilization in Thailand; and nitrous oxide abatement in Egypt

Risk sharing & leverage



80% climate finance 20% private sector funds

- Independent evaluation (2019)
 - Auctions are a viable mechanism to allocate scarce funding for climate change mitigation and have potential for broad applicability
 - Positive findings about WBG's role in delivering the auctions and bonds



Pilot Auction Facility: Fourth Auction Plans



Pilot Auction Facility: Fourth Auction

Focus

Methane emissions from landfill, wastewater treatment, and animal waste

Eligibility Criteria

- Carbon credits will be generated under the Clean Development Mechanism, Gold Standard, or Verified Carbon Standard
- Methodologies are listed on the PAF website
- Eligible countries for host projects are listed on the PAF website
- Emission reductions will be generated in 2020, between the time of the auction and December 31, 2020
- Credits must originate from a project with a passing Environmental, Health, Safety & Social audit report

Auction Timeline

- Auction date: Q1 calendar year 2020
- Payment in 2021

Auction Budget

At least USD \$6 million





for Methane and Climate Change Mitigation

Thank you for attending!

We are happy to answer your questions:

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