Virginia Commercial Wind Power Lease Sale

January 17, 2013

Karen Wrege



Power Auctions Profile

Company Profiles and Government Clients

Microtech LLC

- Large-scale enterprise network support and application development provider
- Provider of FISMA-compliant data center and cloud-based solutions
- Headquartered in Vienna, VA
- Service Disabled Veteran Owned Small Business

Power Auctions LLC

- Founded in 2003 as an outgrowth of Market Design Inc. (MDI), a consultancy of professors of economics and game theory at leading American universities
- Holds PowerAuctions[™] software platform (which originated in 2000 and was first used commercially for the EDF generation capacity auctions in 2001)
- More than 150 high-stakes auctions and 3 industry simulations to date
- Government clients include US Federal Communications Commission, Federal Aviation Administration, Industry Canada, Australian Communications and Media Authority
- Delaware limited liability company with principal office in Washington DC

Auction Design

Ascending Clock Auction

Illustrative Single Item Ascending Clock Auction Round Process



1/18/2013

Ascending clock auction (single item)



Auction Mechanics

IT and Backup Requirements for Participation

• Computer requirements

- Computer with an 1.2 GHz processor or higher
- Web Browsers supported
 - v Google Chrome (Windows or MAC platforms)
 - V Internet Explorer 8 or 9 (Windows 7 with required configuration change)
- Access to the internet
- 1366x768 or higher resolution monitor

• Recommended backup facilities

- Secondary means to access the internet, such as a mobile wireless card
- More than one individual (up to three) authorized to bid for your company

Typical auction arrangements



Power Auctions Bio Bureau of Ocean Energy Management Auction January 2013

Once the Auction has started, participants will be able to access the Auction Site from here.

Welcome to the Power Auctions system for the Simultaneous Ascending Clock Auction



14 January 2013, 01:26:21 EST The Auction will start 21 January 2013 at 01:08:00 EST

Simultaneous Ascending Clock Auction - January 13, 2013

This web site is operated for the U.S. Government. Any unauthorized access is prohibited. Access of this system may be monitored, recorded, and subject to audit. Use of this system indicates consent to the monitoring and recording of the user's use of the system. The data and documents on this system include Federal records that may contain sensitive information protected by various Federal statutes. Unauthorized user attempts or acts to (1) access, upload, change, delete or deface information on this system, (2) modify this system, (3) deny access to this system, or (4) otherwise misuse this system are strictly prohibited and may result in criminal and civil penalties.

Please log in.	
Username:	
Password:	
C BUILT	
	Login >>

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R		Atlantic Win	d One	Offeha		Nio	1	4 January 20*	13, 01:40:10 ES	ST
-		Auction No. ATLW1, Jar		Ulisho	re virgi	lid	21		on will start 3 at 01:08:00 E	TP
1	Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Schedule			

Auction Schedule

[View Printable Format]

The Auction Schedule is shown below. The number of rounds will be dependent on bidding in the auction, and thus this screen does not reflect the expected number of rounds.

Round	Status	Start	End		
Round 1	Next View Prices	21 Jan, 01:08:00 EST	21 Jan, 02:08:00 EST		
	Recess	21 Jan, 02:08:00 EST	21 Jan, 03:08:00 EST		
Round 2	Future	21 Jan, 03:08:00 EST	21 Jan, 03:38:00 EST		
	Recess	21 Jan, 03:38:00 EST	21 Jan, 04:38:00 EST		
Round 3	Future	21 Jan, 04:38:00 EST	21 Jan, 05:08:00 EST		
	Recess	21 Jan, 05:08:00 EST	21 Jan, 06:08:00 EST		
Round 4	Future	21 Jan, 06:08:00 EST	21 Jan, 06:38:00 EST		
	Recess	21 Jan, 06:38:00 EST	21 Jan, 07:38:00 EST		

R		Auction No.		2 Atlar	ntic Win	Time left in R		14	4 January 2013	3, 03:08:20 ES	т
		Offshore Rhode Island				18:4	0	Round	d 1 started at 0 at 03:27:		ill end
	Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Se	chedule	Messages	Downloads	

Messages

[View Printable Format] Announcements You have 1 announcement. Auction No. ATLW2, Atlantic Wind Two. From: Adeh DeSandies, Auction Manager
Sent: 14 January 2013, 03:07:16 EST
Welcome to the Auction No. ATLW2, Atlantic Wind Two, Offshore Rhode Island and
Massachusetts. If you wish . . . View entire announcement »

My Conversations	
You have no conversations.	Start New Conversation »

Note:

- "My Conversations" shows the most recent message of each conversation.
- The Auction Manager may respond to your messages via phone or this message facility.

R		Atlantic Win	d One	Offebo	ro Virgin	ia		14 January 20	13, 01:49:21 EST
		The second secon		Ulisilo	e virgin	lia		The Auct	ion will start
BUREAU OF O	CEAN ENERGY MANAGEME	Auction No. ATLW1, Jan	uary 2013				2	1 January 201	3 at 01:08:00 EST
	Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Schedule	Messages	Downloads

Start New Conversation

	To: Subject:	Auction Managers
<u>-</u>	« Back to M	Messages Send

	Atlantic Win	14 January 2013, 01:52:07 EST The Auction will start 21 January 2013 at 01:08:00 ES						
Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Schedule	Messages	Downloads
Products	My Auction Info		Auction	Info - Products	3			[View Printable F
		Zone				Оре	ning Price	
	\$563,995							

	My Auction Info				ion will start		
Current Bids G	enerate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	0	Downloads
			My A	Auction Info			
Products My Au	uction Info						[View Printable Forr

	tic Wind C		Offebor		Time left in F	touriu	14 January 20	13, 01:56:03 ES	ST
BUREAU OF OCEAN ENERGY MANAGEMENT Auction No			51151101	e virgin	27:5	7 Rou		01:54:00 and w 4:00 EST	vill end
Current Bids Generate Bi	d Confirmation My	Results	Auction Info	View Demand	Round Results	Auction Schedule		Downloads	

Current Bids - Round 1

	Activity: 0 pts Eligibility: 1 pt Eligibility of Next Round: 0 pts
Zone	Live Bid
Commercial Lease OCS-A 0483	\$563,995
Cash bid:	\$0

BUREAU OF OCEAN ENERGY MANAGEMENT Auction No. ATLW1, January 2013									
Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Schedule	Messages	Downloads	
			Current	Bids - Round 1					
						vity: 1 pt Eligibilit bility of Next Round:	· •		

Zone	Live Bid
Commercial Lease OCS-A 0483	≤ \$563,995
Cash bid:	\$563,995

BOREAU OF OCEAN ENERGY	BUREAU OF OCEAN ENERGY MANAGEMENT AUCTION NO. ATLW1, January 2013						Round 1 started at		 3, 02:01:37 EST 01:54:00 and will end 4:00 EST 		
Current E							chedule	Messages	Downloads		
Bid Confirmation for Adeh & Co - Round 1											
	Round: Round 1 + Bid data a This round's Eligibility: 1 pt Next round's Eligibility: 1 pt			읍 [Prin	nt this page]						
		lone		Live Bid							
	Commercial Lease OCS-A 04	Commercial Lease OCS-A 0483						\$563,995			
	Cash bid:					\$563,995					

	Atlantic Win Auction No. ATLW1, Jar	14 January 2013, 02:03:38 EST Round 1 results have been posted										
Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Schedule	Messages	Downloads				
View Demand Demand												

R 1	R 2	R 3 Commercial Lease OCS-A 0483	R 4	R 5
Show Round: Round 1 +				-
		Zone		Demand
		20110		Round 1
Commercial Lease OCS-A 044	83			5

		Atlantic Win	14 January 2013, 02:05:39 EST Round 1 results have been posted							
Curren	nt Bids	Generate Bid Confirmation	My Results	View Demand	Round Results	Auction Schedule	Messages	Downloads		
My Results										
		Posted Bids:					int this page]			

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This table contains the results for all Rounds in which you were eligible to bid.

T	Liv	e Bid	Intra-round Bid	Round	Eligibility this Round	Activity this Round	Eligibility next Round
	1	\$563,995	-	Round 1	1 pt	1 pt	1 pt

Atlantic Wind One, Offshore Virginia Auction No. ATLW1, January 2013							14 January 2013, 02:06:42 EST Round 1 results have been posted				
Current Bids	Generate Bid Confirmation	My Results	Round Results	Auction Schedule	Messages	Downloads					
Round Results											

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Round 1

Zone	Price	Price		
Zone		Round 2		
Commercial Lease OCS-A 0483	\$563,995	5	N/A	N/A

D		Atlantia Win	d One	Offeha				14 January 2	013, 02:07:32 EST
BOE M Atlantic Wind One, Offshore Virginia BUREAU OF OCEAN ENERGY MANAGEMENT Auction No. ATLW1, January 2013								Round 1 results	s have been posted.
	Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Schedule	Messages	Downloads

Downloads

To download a file, click on one of the hyperlinks below. If you have Excel on your computer, you should select [.xis]. Otherwise, select [.csv].

Instructions for Excel users [.xls]: When prompted by the browser, please select either OPEN (to look at the file) or SAVE (to make a copy of the file on your computer). You can override the default name, but you should choose a filename that ends in ".xls".

Instructions for other software [.csv]: When prompted by the browser, please select SAVE (to make a copy of the file on your computer). You can override the default name, but you should choose a filename that ends in ".csv".

[.xls][.csv] « My Saved Round Bids [.xls][.csv] « Round Results

	nd One	Offeho	ro Virain	Time left in F		14	January 201	3, 02:09:52 ES	ST
BUREAU OF OCEAN ENERGY MANAGEMENT Auction No. ATLW1, Ja	29:0	8	Round		02:09:00 and w 9:00 EST	vill end			
Current Bids Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Sche	dule	Messages	Downloads	

Current Bids - Round 2

Activity: 0 pts Eligibility: 1 pt Eligibility of Next Round: 0 pts

	Zone	Previous Round Bid	Live Bid		
Commercial Lease OCS-A	0483	≤ \$563,995	\$654,235		
Intra-Round Bid	Place Intra-round Bid	Cash bid:	\$0		

Note:

• If you elect to place an intra-round bid this round, your eligibility will fall to 0 and you will not be able to bid in future rounds.

RAFN	Atlantic Wind		Offebor	o Virgin	Time left in F			4 January 201	13, 02:11:21 ES	ЗT
BOE Atlantic Wind One, Offshore Virgin BUREAU OF OCEAN ENERGY MANAGEMENT Auction No. ATLW1, January 2013						9	Rour		02:09:00 and w 9:00 EST	/ill end
Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Sch	nedule	Messages	Downloads	

Current Bids - Round 2

Activity: **1 pt** Eligibility: **1 pt** Eligibility of Next Round: **1 pt**

:1pt

	Zone	Previous Round Bid	Live Bid
Commercial Lease OCS-A	0483	𝔄 \$563,995	 ✓ \$654,235
Intra-Round Bid	Place Intra-round Bid	Cash bid:	\$654,235

Note:

• If you elect to place an intra-round bid this round, your eligibility will fall to 0 and you will not be able to bid in future rounds.

BOE M Atlant	ic Wind (Ono	Offeho	re Virai	Time left in Ro		14	January 2013	, 03:50:44 EST	r
BUREAU OF OCEAN ENERGY MANAGEMENT Auction No.			Olisilo	ie virgi	25:16	5	Round	2 started at 02 at 04:16:	2:09:00 and will 00 EST	end
Current Bids Generate Bid C	onfirmation My F	Results	Auction Info	View Demand	Round Results	Auction Se	chedule	Messages	Downloads	

Current Bids - Round 2

						Activity: 0 pts Eligit Eligibility of Next Rou	bility: 0 pts nd: 0 pts
		Zone			Pre	vious Round Bid	Live Bid
Commercial Lease	OCS-A 0483				1	\$563,995	\$654,235
Intra-Round Bid					Cash bid:		\$0
Note:	I	\$563,995 <		< \$654,235 a price greater that	an \$563,995.		
If you erounds.	elect to place an ir	st s	Submit or Ca			J ou will not be able to bid in	future

ROFN/	Atlantic Wine		Offehou	o Virgin	Time left in F			14 January 201	13, 02:13:23 ES	зт
	Auction No. ATLW1, Jan		Clisilo	e virgin	25:3	7	Rour		02:09:00 and w 9:00 EST	ill end
Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Sch	edule	Messages	Downloads	

Current Bids - Round 2

			Activity: 0 pts Eligibility of Next Rour	bility: 0 pts nd: 0 pts
	:	Zone	Previous Round Bid	Live Bid
Commercial Lease OCS-A	0483		𝔄 \$563,995	\$654,235
Intra-Round Bid			Cash bid:	\$0
 Note: If you elect to pl rounds. 	ace an int	\$563,995 < 600001 < \$654,235	all to 0 and you will not be able to bid in	future

RAFN	Atlantic Wine		Offebo	ro Virgin	Time left in F		1	14 January 20	13, 02:14:19 ES	эт
	Auction No. ATLW1, Jan		Clisilo	e virgin	24:4	1	Rour		02:09:00 and w 9:00 EST	ill end
Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Sch	nedule	Messages	Downloads	

Current Bids - Round 2

Activity: 0 pts Eligibility: 0 pts Eligibility of Next Round: 0 pts

	Zone	Previous Round Bid	Live Bid
Commercial Lease OCS-A	0483	𝔄 \$563,995	\$654,235
Intra-Round Bid	Edit Or Delete \$600,001	Cash bid:	\$0

Note:

• If you elect to place an intra-round bid this round, your eligibility will fall to 0 and you will not be able to bid in future rounds.

	Atlantic Wind	-	Offshor	e Virgin	Time left in R 23:4			d 2 started at	13, 02:15:15 EST 02:09:00 and will end 0:00 EST
Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction S	Schedule	Messages	Downloads
		Bid	Confirmation f	or Adeh & Co -	Round 2				
	Round: Round 2 + Bid data a	s of Monday, 1	4 January 2013	, 02:14:48 EST.			ഥ.[Prin	t this page]	
	This round's Eligibility: 1 pt Next round's Eligibility: 0 pts You eligibility will be reduc								
		Zone			Intra-round	Bid	Live	Bid	
	Commercial Lease OCS-A 04	33			1				
	Cash bid:				\$6	600,001		\$0	
	Note:								

• If you elect to place an intra-round bid this round, your eligibility will fall to 0 and you will not be able to bid in future rounds.

	Atlantic Win		Offsho	re Virgin	ia		14 January 2013, 02:20:39 EST Round 2 results have been posted.		
Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Schedule	Messages	Downloads	

My Results

Posted Bids:

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This table contains the results for all Rounds in which you were eligible to bid.

Liv	e Bid	Intra	a-round Bid	Round	Eligibility this Round	Activity this Round	Eligibility next Round
-	\$0	1	\$600,001	Round 2	1 pt	0 pts	0 pts
1	\$563,995		-	Round 1	1 pt	1 pt	1 pt

 	Atlantic Win		Offsho	re Virgin	ia		14 January 2013, 02:19:33 EST Round 2 results have been posted.		
Current Bids	Generate Bid Confirmation	My Results	Auction Info	View Demand	Round Results	Auction Schedule	Messages	Downloads	



Show Round: Round 2 + (and up to 1 Round before)

Zone	Dem	hand
LUITE	Round 2	Round 1
Commercial Lease OCS-A 0483	3	5



Round Results

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Round 2

Zone	Price	Quantity Posted	Increment	Price
		Round 3		
Commercial Lease OCS-A 0483	\$654,235	3	N/A	N/A

Round 1

Zone	Price	Quantity Posted	Increment	Price
Zone	Round 1			Round 2
Commercial Lease OCS-A 0483	\$563,995	5	16.00%	\$654,235



Current Bids - Round 3

Your Activity in a previous Round was zero. Your Eligibility is zero and you are no longer eligible to bid in this auction.

B	BOE M Atlantic Wind One, Offshore Virginia									šΤ
BUREAU OF OCEAN ENERGY MANAGEMENT Auction No. ATLW1, January 2013 The Auction has conclude								has conclud	led.	
Current Bids Generate Bid Confirmation My Results Auction Info View Demand Round Results Auction Schedule Messages Downle								Downloads		

My Results - Auction Concluded

Your Final Results:

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Zones	Activity	Price as Bid	Payment
	You did not win any Produ	ate in the Austion	

Posted Bids:

This table contains the results for all Rounds in which you were eligible to bid.

Liv	e Bid	Intra	a-round Bid	Round	Eligibility this Round	Activity this Round	Eligibility next Round
-	\$0	1	\$600,001	Round 2	1 pt	0 pts	0 pts
1	\$563,995		-	Round 1	1 pt	1 pt	1 pt

B	BOE M Atlantic Wind One, Offshore Virginia									
BUREAU OF	BUREAU OF OCEAN ENERGY MANAGEMENT Auction No. ATLW1, January 2013 The Auction has concluded							d.		
Current Bids Generate Bid Confirmation My Results Auction Info View Demand Round Results Auction Schedule Messages Downloads							Downloads			

My Results - Auction Concluded

Congratulations! The auction has concluded.

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Subject to the determination of the panel you have preliminarily been designated the winner of the following zone:

Zones	Activity	Price as Bid	Payment
Commercial Lease OCS-A 0483	1 pt	\$706,574	\$706,574

BOEM reserves the right not to issue a lease pursuant to this bid pursuant to its authority under the Outer Continental Shelf Lands Act (43 U.S.C. 1331 et seq. and section 1337(c)(3) in particular), 30 CFR 585.224(f), and the rules listed in the Final Sale Notice.

Posted Bids:

This table contains the results for all Rounds in which you were eligible to bid.

Liv	e Bid	Intra-round Bid	Round	Eligibility this Round	Activity this Round	Eligibility next Round
✓	\$706,574	-	Round 3	1 pt	1 pt	1 pt
1	\$654,235	-	Round 2	1 pt	1 pt	1 pt
1	\$563,995	-	Round 1	1 pt	1 pt	1 pt

BOE	BOE M Atlantic Wind One, Offshore Virginia								
BUREAU OF OCEAN ENERGY MANAGEment Auction No. ATLW1, January 2013 The Auction has concluded								ed.	
Current	Current Bids Generate Bid Confirmation My Results Auction Info View Demand Round Results					Auction Schedule	Messages	Downloads	

Round Results

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Final Results

Winners			A -45-14-	Price as Bid	Baumant	
ID	Company Name	Zones	Activity	Price as Bio	Payment	
2	Bob & Co	Commercial Lease OCS-A 0483	1 pt	\$706,574	\$706,574	
Total Sold		Commercial Lease OCS-A 0483	3 Number of Winning B		nning Bidders: 1	

Round 3

Zone	Price	Quantity Posted	Increment	Price
Zone		Round 4		
Commercial Lease OCS-A 0483	\$706,574	1	N/A	N/A

Round 2

Zone	Price	Quantity Posted	Increment	Price
Zone		Round 3		
Commercial Lease OCS-A 0483	\$654,235	3	8.00%	\$706,574

Round 1

Zone	Price	Quantity Posted	Increment	Price
	Round 1			Round 2
Commercial Lease OCS-A 0483	\$563,995	5	16.00%	\$654,235

Bidder Preparation

Prospective Bidders

- Receive, via email, the User Guide for the Auction Software
 - One copy of the User Guide will be emailed to the email address listed for the main "Point of Contact" for your company (Verify with BOEM)
- Receive, via FedEx (signature required), usernames, passwords and tokens for the Auction System for the Authorized Individuals
 - Allows access to the Auction System for the mock auction and live auction
 - One set per authorized individual

Mock Auction

- Mock Auction (training session) is scheduled just prior to the auction to provide bidders with an opportunity to test their login codes and place practice bids
- Participation in the Mock Auction will occur remotely over the Internet, from the bidders' respective offices
- Recommend that bidders use the PC and connection that they intend to use for the live auction
- No results of the Mock Auction will be published
- Auction Manager will provide support (telephone and messaging facility of auction system) during the Mock Auctions

Live Auctions

- Participation in the Auctions will occur remotely over the Internet, from the bidders' respective offices
- Bidders should establish protocol that a single Authorized Individual will be submitting bids; and that the second and third Authorized Individuals are available as backups
- All submissions subject to the constraints of the Auction Rules
- Auction Manager will provide support (telephone and messaging facility of auction system) during the Live Auctions

Questions and Answers

BOEM and Power Auctions LLC