



Relationship Between Wholesale and Retail Markets



Two Offerings: SSO and CRES



- Standard Service Offer (SSO) is the default option



 Competitive Retail Electric Supplier (CRES) competitive alternative to standard service



Both retail constructs are derived from the wholesale market





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Relationship Between Wholesale and Retail **Markets**



- Standard Service Offer (SSO)
 - Default service for non-shopping customers
 - Price based upon the results of competitive procurement auctions



- Competitive Retail Electric Supplier (CRES)
 - Independent marketers certified by Commission
 - Compete to attract customers from SSO
 - Flat-price offers for mass-market customers
 - Specific offers to larger commercial and industrial customers based on their unique energy needs (load profile) and cost of service
 - May own generation (or be affiliate)
 - May source energy from wholesale market









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Relationship Between Wholesale and Retail **Markets**



- Standard Service Offer (SSO) Auctions
 - Suppliers compete for right to serve default load
 - Master Supply Agreement governs bidder requirements and product definition
 - Independent auction administrator
 - Bidders may own generation or obtain energy and capacity through wholesale market



- SSO Load is divided into identical units called "tranches"
 - Each tranche represents one percent (1%) of the actual hourly energy required for SSO load for the applicable delivery period as well as one percent (1%) of the PJM capacity requirement
 - No bidder may win more tranches than the load cap The PUCO has ordered a load cap of 80%







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Example of a Declining Clock Auction



	Illustrative Bidding in the Clock Phase														
		Announced	Number of Tranches Bid												
Round	Tranche Target	Price (\$/MWh)	BidderA	BidderB	BidderC	BidderD	Total								
1	100	\$75.00	34	55	21	72	182								
2	100	\$70.00	30	55	15	50	150								
3	100	\$66.00	20	52	10	45	127								
4	100	\$62.00	15	48	0	44	107								
5	100	\$59.50	0	48	_	42	90								









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Multiple solicitations of various durations are blended together to mitigate wholesale price volatility

				2010)11					20	12			Ι			2	013							2	014			
ESP	Auction Date	# Tranches to Procure	Load Cap	9 10 11 12	1 2 3	4 5 6	7 8	9 1	10 11 12	1 2	3 4	5 6	7 8	9 1	0 11 1	2 1	2 3	4	5 6	7	8 9	10 1	11 12	1	2 3	4	5 6	7	8 9	10	11 12
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		16					36 month Jun 2011 - May 2014																								
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		16					36 month Jun 2011 - May 2014																								
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	January 2012	17	14							J							Jun		moi 2 - N		2014										















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• Standard Service Offer (SSO) Auctions



 If there are more tranches bid than the number of tranches needed at the current round price:



the price for a product ticks down for the next round



- After each round a bidder may be able to:
 Withdraw some tranches
 Switch bids between products
 - Both withdraw and switch



Auction ends when # of bids = tranche target
 Sealed Bid Round for final true-up





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• Standard Service Offer (SSO) Auctions



Full Requirements Service
 Suppliers bid to provide energy, capacity,
 transmission service, transmission ancillaries



Retail rates will be developed directly from the final prices
 Reconciliation mechanism:



Ensures the distribution utility neither makes nor loses money related to the provision of SSO Generation Service

