



Monitoring
Analytics

IMM MOPR-Ex RPS Status

The Independent Market Monitor for PJM

December 14, 2017

Original

Original	Delaware	Illinois	Maryland	Michigan	Tier I New Jersey	North Carolina	Ohio	Pennsylvania	Washington DC
the resource is procured in a state mandated program;	x	x	x	x	x	x	x	x	x
the terms of such program are competitive and non-discriminatory, meaning that both new and existing resources may participate, the requirements of the program are fully objective and transparent, and the program terms do not include selection criteria that could give preference to new resources, and no indirect means are employed to discriminate against existing capacity;	Existing get additional multipliers based on install date	ZECs	Offshore wind	Incumbents can receive credit multipliers	Offshore Wind requirement, restriction on hydroelectric facilities of 3 MW or less	x	x	x	x
the structure of such program is competitive and non-discriminatory, meaning: there are at least 10 independent sellers that make offers consisting of price, quantity pairs; the program passes a three pivotal supplier test; and renewable characteristic(s) is the only screen for participation in program;	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify
any single state or multi-state auction, if an auction is used by such program, whether as a means of procuring renewable attributes to meet state requirements, or as a means to facilitate the procurement of renewable attributes by responsible LSEs, is competitive and non-discriminatory, selects resources with lowest offers; and sets the terms of payment for selected resources based on clearing prices;	No auction requirement	No auction requirement	No auction requirement	No auction requirement	No auction requirement	No auction requirement	No auction requirement	No auction requirement	No auction requirement
any bilateral transactions executed by parties in compliance with that program are deemed competitive and non-discriminatory;	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior
such process provide for consistent terms of trade across PJM, including allowance for imports and exports meeting consistent definition of renewable across all PJM states;	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination
transparent, public data on renewable energy credits (REC) prices and quantities will be provided; and	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard

Original	Delaware		Illinois		Maryland	Tier I (Carve Outs)		North Carolina	Ohio	Pennsylvania	Washington DC
	Solar	Solar	Wind	Distributed Generation	Solar	Michigan	New Jersey	Solar	Solar	Solar	Solar
the resource is procured in a state mandated program;	x	x	x	x	x	x	x	x	x	x	x
the terms of such program are competitive and non-discriminatory, meaning that both new and existing resources may participate, the requirements of the program are fully objective and transparent, and the program terms do not include selection criteria that could give preference to new resources, and no indirect means are employed to discriminate against existing capacity;	Existing get additional multipliers based on install date	x	x	x	x	Incumbents can receive credit multipliers	x	x	x	x	x
the structure of such program is competitive and non-discriminatory, meaning: there are at least 10 independent sellers that make offers consisting of price, quantity pairs; the program passes a three pivotal supplier test; and renewable characteristic(s) is the only screen for participation in program;	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify
any single state or multi-state auction, if an auction is used by such program, whether as a means of procuring renewable attributes to meet state requirements, or as a means to facilitate the procurement of renewable attributes by responsible LSEs; is competitive and non-discriminatory, selects resources with lowest offers; and sets the terms of payment for selected resources based on clearing prices;	No auction requirement	No auction requirement	No auction requirement	No auction requirement	No auction requirement	No auction requirement	No auction requirement	No auction requirement	No auction requirement	No auction requirement	No auction requirement
any bilateral transactions executed by parties in compliance with that program are deemed competitive and non-discriminatory;	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior	Difficult to determine competitive behavior
such process provide for consistent terms of trade across PJM, including allowance for imports and exports meeting consistent definition of renewable across all PJM states;	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination
transparent, public data on renewable energy credits (REC) prices and quantities will be provided; and	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard

Original	Maryland	New Jersey	Tier II		Washington DC
	Tier II	Tier II	North Carolina Poultry and Swine Waste	Pennsylvania Tier II	Tier II
the resource is procured in a state mandated program;	x	x	x	x	x
the terms of such program are competitive and non-discriminatory, meaning that both new and existing resources may participate, the requirements of the program are fully objective and transparent, and the program terms do not include selection criteria that could give preference to new resources, and no indirect means are employed to discriminate against existing capacity;	x	x	Very Specific	x	Restricts new entry, program ends 2020
the structure of such program is competitive and non-discriminatory, meaning: there are at least 10 independent sellers that make offers consisting of price, quantity pairs; the program passes a three pivotal supplier test; and renewable characteristic(s) is the only screen for participation in program;	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify	10 independent sellers are difficult to verify
any single state or multi-state auction, if an auction is used by such program, whether as a means of procuring renewable attributes to meet state requirements, or as a means to facilitate the procurement of renewable attributes by responsible LSEs, is competitive and non-discriminatory, selects resources with lowest offers; and sets the terms of payment for selected resources based on clearing prices;	No auction requirement Difficult to determine	No auction requirement Difficult to determine	No auction requirement Difficult to determine	No auction requirement Difficult to determine	No auction requirement Difficult to determine
any bilateral transactions executed by parties in compliance with that program are deemed competitive and non-discriminatory;	competitive behavior	competitive behavior	competitive behavior	competitive behavior	competitive behavior
such process provide for consistent terms of trade across PJM, including allowance for imports and exports meeting consistent definition of renewable across all PJM states;	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination	Not all states have consistent terms due to REC origination
transparent, public data on renewable energy credits (REC) prices and quantities will be provided; and	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard	Possible with additions to standard

Revised

Revised	Delaware	Illinois	Maryland	Michigan	Tier I New Jersey	North Carolina	Ohio	Pennsylvania	Washington DC
The terms of the program are competitive and non-discriminatory, meaning:									
the program requires LSEs to procure a defined amount of renewable resources,	x	x	x	x	x	x	x	x	x
both new and existing renewable resources may participate,	x	x	x	x	x	x	x	x	x
all suppliers of renewable resources may participate,	x	x	x	x	x	x	x	x	x
the requirements of the program are fully objective and transparent,	x	x	x	x	x	x	x	x	x
the program terms do not include selection criteria that could give preference to new or existing resources, and	Existing get additional multipliers based on install date	ZECs	Offshore wind	Incumbents can receive credit multipliers	x	x	x	x	x
the program terms do not use indirect means to discriminate against new or existing capacity.	Advantage to incumbent, off-shore get 350%, in state receive a 10% benefit	x	Offshore wind	Incumbents can receive credit multipliers	Offshore Wind requirement, restriction on hydroelectric facilities of 3 MW or less	x	x	x	x
the renewable characteristic is the only screen for participation in the program where renewable does not include coal, natural gas or nuclear thermal resources,	x	Zero Emission facility's are nuclear power	x	x	x	Combined heat & power	x	x	x
If the program does not use an auction:									
purchase of renewables is at arms length with unaffiliated suppliers,	x	x	x	x	x	x	x	x	x
the price paid for renewable resources is determined by the contract terms between the seller and the buyer.	x	x	x	x	x	x	x	x	x
If the program uses an auction, either as a means of procuring renewable attributes to meet state requirements, or as a means to facilitate the procurement of renewable attributes by responsible LSEs, such auction must be competitive and non-discriminatory, meaning:									
winner(s) of auction based on lowest offer price(s), and									
payments to winners based on auction clearing price									
at least three nonaffiliated sellers.									

Revised	Delaware		Illinois		Tier I (Carve Outs) Maryland		New Jersey	North Carolina	Ohio	Pennsylvania	Washington DC
The terms of the program are competitive and non-discriminatory, meaning:	Solar	Solar	Wind	Distributed Generation	Solar	Solar	Solar	Solar	Solar	Solar	Solar
the program requires LSEs to procure a defined amount of renewable resources,	x	x	x	x	x	x	x	x	x	x	x
both new and existing renewable resources may participate,	x	x	x	x	x	x	x	x	x	x	x
all suppliers of renewable resources may participate,	x	x	x	x	x	x	x	x	x	x	x
the requirements of the program are fully objective and transparent,	x	x	x	x	x	x	x	x	x	x	x
the program terms do not include selection criteria that could give preference to new or existing resources, and		Existing get additional multipliers based on install date x	x	x	x	x	x	x	x	x	x
the program terms do not use indirect means to discriminate against new or existing capacity.	x	x	x	x	x	x	x	x	x	x	x
the renewable characteristic is the only screen for participation in the program where renewable does not include coal, natural gas or nuclear thermal resources,	x	x	x	x	x	x	x	x	x	x	x
If the program does not use an auction:											
purchase of renewables is at arms length with unaffiliated suppliers,	x	x	x	x	x	x	x	x	x	x	x
the price paid for renewable resources is determined by the contract terms between the seller and the buyer.	x	x	x	x	x	x	x	x	x	x	x
If the program uses an auction, either as a means of procuring renewable attributes to meet state requirements, or as a means to facilitate the procurement of renewable attributes by responsible LSEs, such auction must be competitive and non-discriminatory, meaning:											
winner(s) of auction based on lowest offer price(s), and											
payments to winners based on auction clearing price											
at least three nonaffiliated sellers.											

Revised	Maryland	New Jersey	Tier II North Carolina	Pennsylvania	Washington DC
The terms of the program are competitive and non-discriminatory, meaning:			Poultry and Swine Waste		
	Tier II	Tier II		Tier II	Tier II
the program requires LSEs to procure a defined amount of renewable resources,	x	x	x	x	x
both new and existing renewable resources may participate,	x	x	x	x	If existing before January 1, 2004
all suppliers of renewable resources may participate,	x	x	x	x	x
the requirements of the program are fully objective and transparent,	x	x	x	x	x
the program terms do not include selection criteria that could give preference to new or existing resources, and	x	x	Very Specific	x	Only old units can participate
the program terms do not use indirect means to discriminate against new or existing capacity.	x	x	x	x	Restricts new entry, program ends 2020
the renewable characteristic is the only screen for participation in the program where renewable does not include coal, natural gas or nuclear thermal resources,	x	x	x	Waste coal, coal-mine methane, coal gasification	x
If the program does not use an auction:					
purchase of renewables is at arms length with unaffiliated suppliers,	x	x	x	x	x
the price paid for renewable resources is determined by the contract terms between the seller and the buyer.	x	x	x	x	x
If the program uses an auction, either as a means of procuring renewable attributes to meet state requirements, or as a means to facilitate the procurement of renewable attributes by responsible LSEs, such auction must be competitive and non-discriminatory, meaning:					
winner(s) of auction based on lowest offer price(s), and					
payments to winners based on auction clearing price					
at least three nonaffiliated sellers.					

Revised – 3

Revised 3	Delaware	Illinois	Maryland	Michigan	Tier I New Jersey	North Carolina	Ohio	Pennsylvania	Washington DC	Indiana	Voluntary Virginia
<p>A Capacity Market Seller may qualify a MOPR Screened Generation Resource for an RPS Exemption in any RPM Auction for any Delivery Year if the Capacity Market Seller demonstrates that the MOPR Screened Generation Resource satisfies the following criterion:</p>											
<p>the resource was procured in a program in compliance with a state mandated renewable portfolio standard prior to December 31, 2018, or based on a request for proposals (RFP) issued under such a program prior to December 31, 2018.</p>	x	x	x	x	x	x	x	x	x		
<p>or satisfies all of the following criteria:</p>											
<p>the resource complies with the requirements of a state mandated renewable portfolio standard or voluntary renewable portfolio standard;</p>	x	x	x	x	x	x	x	x	x	x	x
<p>the terms of such program are competitive and non-discriminatory, meaning that (1) the program requires LSEs to procure a defined amount of renewable resources, (2) both new and existing resources may participate, (3) all suppliers of renewable resources may participate, (4) the requirements of the program are fully objective and transparent, (5) the program terms do not include selection criteria that could give preference to new or existing resources, (6) the program terms do not use indirect means to discriminate against new or existing capacity, (7) the program terms do not use any locational requirement, e.g. offshore wind, other than restricting imports from other states, and (8) the renewable characteristic is the only screen for participation in the program where renewable does not include coal, natural gas or nuclear thermal resources;</p>	Existing get additional multipliers based on install date, offshore wind	ZECs, Zero Emission Facility's are nuclear power	Offshore Wind	Incumbents can receive credit multipliers	Offshore Wind	Combined heat & power	x	x	x	Combined heat & power, nuclear, coal bed methane, clean coal	x
<p>if the program does not use an auction, the terms of such program: (1) are consistent with fair market value and standard industry practice, and (2) provide that the price paid for renewable energy credits is determined by the contract terms between the seller and the buyer.</p>	x	x	x	x	x	x	x	x	x	x	x
<p>if the program uses an auction, either as a means of procuring renewable attributes to meet state requirements, or as a means to facilitate the procurement of renewable attributes by responsible LSEs, such auction must be competitive and non-discriminatory, meaning (1) winner(s) of auction based on lowest offer price(s), (2) payments to winners based on auction clearing price, and (3) at least three nonaffiliated sellers participate.</p>											

Revised 3	Delaware	Illinois	Tier 1 (Carve Outs)				Maryland	New Jersey	North Carolina	Ohio	Pennsylvania	Washington DC
A Capacity Market Seller may qualify a MOPR Screened Generation Resource for an RPS Exemption in any RPM Auction for any Delivery Year if the Capacity Market Seller demonstrates that the MOPR Screened Generation Resource satisfies the following criterion:	Solar	Solar	Wind	Distributed Generation	Solar	Solar	Solar	Solar	Solar	Solar	Solar	
the resource was procured in a program in compliance with a state mandated renewable portfolio standard prior to December 31, 2018, or based on a request for proposals (RFP) issued under such a program prior to December 31, 2018.	x	x	x	x	x	x	x	x	x	x	x	
or satisfies all of the following criteria:												
the resource complies with the requirements of a state mandated renewable portfolio standard or voluntary renewable portfolio standard;	x	x	x	x	x	x	x	x	x	x	x	
the terms of such program are competitive and non-discriminatory, meaning that (1) the program requires LSEs to procure a defined amount of renewable resources, (2) both new and existing resources may participate, (3) all suppliers of renewable resources may participate, (4) the requirements of the program are fully objective and transparent, (5) the program terms do not include selection criteria that could give preference to new or existing resources, (6) the program terms do not use indirect means to discriminate against new or existing capacity, (7) the program terms do not use any locational requirement, e.g. offshore wind, other than restricting imports from other states, and (8) the renewable characteristic is the only screen for participation in the program where renewable does not include coal, natural gas or nuclear thermal resources;	Existing get additional multipliers based on install date	x	x	x	x	x	x	x	x	x	x	
if the program does not use an auction, the terms of such program: (1) are consistent with fair market value and standard industry practice, and (2) provide that the price paid for renewable energy credits is determined by the contract terms between the seller and the buyer.	x	x	x	x	x	x	x	x	x	x	x	
if the program uses an auction, either as a means of procuring renewable attributes to meet state requirements, or as a means to facilitate the procurement of renewable attributes by responsible LSEs, such auction must be competitive and non-discriminatory, meaning (1) winner(s) of auction based on lowest offer price(s), (2) payments to winners based on auction clearing price, and (3) at least three nonaffiliated sellers participate.												

Revised 3	Tier II				
	Maryland	New Jersey	North Carolina	Pennsylvania	Washington DC
A Capacity Market Seller may qualify a MOPR Screened Generation Resource for an RPS Exemption in any RPM Auction for any Delivery Year if the Capacity Market Seller demonstrates that the MOPR Screened Generation Resource satisfies the following criterion:	Tier II	Tier II	Swine and Poultry Waste	Tier II	Tier II
the resource was procured in a program in compliance with a state mandated renewable portfolio standard prior to December 31, 2018, or based on a request for proposals (RFP) issued under such a program prior to December 31, 2018.	x	x	x	x	x
or satisfies all of the following criteria:					
the resource complies with the requirements of a state mandated renewable portfolio standard or voluntary renewable portfolio standard;	x	x	x	x	x
the terms of such program are competitive and non-discriminatory, meaning that (1) the program requires LSEs to procure a defined amount of renewable resources, (2) both new and existing resources may participate, (3) all suppliers of renewable resources may participate, (4) the requirements of the program are fully objective and transparent, (5) the program terms do not include selection criteria that could give preference to new or existing resources, (6) the program terms do not use indirect means to discriminate against new or existing capacity, (7) the program terms do not use any locational requirement, e.g. offshore wind, other than restricting imports from other states, and (8) the renewable characteristic is the only screen for participation in the program where renewable does not include coal, natural gas or nuclear thermal resources;	x	x	Very Specific	Waste coal, coal-mine methane, coal gasification	Restricts new entry, program ends 2020
if the program does not use an auction, the terms of such program: (1) are consistent with fair market value and standard industry practice, and (2) provide that the price paid for renewable energy credits is determined by the contract terms between the seller and the buyer.	x	x	x	x	x
if the program uses an auction, either as a means of procuring renewable attributes to meet state requirements, or as a means to facilitate the procurement of renewable attributes by responsible LSEs, such auction must be competitive and non-discriminatory, meaning (1) winner(s) of auction based on lowest offer price(s), (2) payments to winners based on auction clearing price, and (3) at least three nonaffiliated sellers participate.					