

**NODAL EXCHANGE CONTRACT SPECIFICATION**

**Pennsylvania Compliance Alternative Energy Certificate Tier 1 Vintage 2021**  
**Bankable Future**

ITEM	SPECIFICATION
<b>Contract Description</b>	Physically delivered Pennsylvania Tier 1 Alternative Energy Certificates (“Pennsylvania Tier I AEC”) where an AEC is an electronic certificate issued by PJM GATS for qualifying generation.
<b>Contract Code</b>	PBE
<b>Settlement Method</b>	Physical Delivery
<b>Hours of Trading</b>	As defined at <a href="http://www.nodalexchange.com">http://www.nodalexchange.com</a>
<b>Unit of Trading</b>	1 lot
<b>Lot Size</b>	100 MWh representing 100 qualifying Tier 1 AECs
<b>Currency</b>	US Dollars
<b>Minimum Tick</b>	\$0.01 per MWh
<b>Settlement Price Precision</b>	\$0.01 per MWh
<b>Last Trading Day</b>	Three Business Days prior to the last Business Day of the delivery month
<b>Delivery Day</b>	Three Business Days after the Last Trading Day (Last Business Day of the delivery month)
<b>Contract Series</b>	Monthly contracts for Jun, Jul, and Aug of the vintage year, plus two additional years. The exchange may list any other calendar month contract set off the standard listing cycle for up to 10 years.
<b>Deliverable Product</b>	Pennsylvania Tier 1 AECs eligible for delivery are those which are eligible to meet the Tier 1 renewable energy requirement in the state of Pennsylvania. The requirements are specified in Pennsylvania Statutes Title 73 Chapter 18F and issued by PJM GATS having a vintage or energy year designation that corresponds to the specified vintage of the expiring contract or any prior vintage year that is bankable and can be used for compliance in the specified vintage year without limitation at the time of physical delivery.
<b>Registry</b>	PJM-EIS Generation Attribute Tracking System (PJM GATS)
<b>Daily Settlement Price</b>	Determined by the Exchange based on exchange activity, other market data, and extrapolation to traded contracts, as appropriate
<b>Final Settlement Price</b>	The Daily Settlement Price on the Last Trading Day
<b>Delivery</b>	On the Last Trading Day, the Exchange will provide the Clearing House with information identifying the Participants with delivery obligations for the purpose of issuing Tender and invoice notices in accordance with Section IX (Physical Delivery and Settlement) of the Nodal Clear Rulebook.

## NODAL EXCHANGE CONTRACT SPECIFICATION

ITEM	SPECIFICATION
<b>Final Settlement (Payment) Date</b>	Three or four Business Days after the Last Trading Day on the successful delivery of the underlying instruments (if the delivery confirmation is available by 11:30am on the third Business Day after the Last Trading Day, the payment will be made on the same day during the Midday Margin Cycle; if it is available after 11:30am, the payment will be made on the next Margin Cycle which will be the next Business Day)
<b>Position Limit</b>	<a href="https://www.nodalexchange.com/files/autogenerated/Nodal_Rulebook_Appendix_C-Limits_and_Levels.PDF">https://www.nodalexchange.com/files/autogenerated/Nodal_Rulebook_Appendix_C-Limits_and_Levels.PDF</a>
<b>Margin Unit</b>	US Dollars

**NODAL EXCHANGE CONTRACT SPECIFICATION**

**Pennsylvania Compliance Alternative Energy Certificate Tier 1 Vintage 2022**  
**Bankable Future**

ITEM	SPECIFICATION
<b>Contract Description</b>	Physically delivered Pennsylvania Tier 1 Alternative Energy Certificates (“Pennsylvania Tier I AEC”) where an AEC is an electronic certificate issued by PJM GATS for qualifying generation.
<b>Contract Code</b>	PBF
<b>Settlement Method</b>	Physical Delivery
<b>Hours of Trading</b>	As defined at <a href="http://www.nodalexchange.com">http://www.nodalexchange.com</a>
<b>Unit of Trading</b>	1 lot
<b>Lot Size</b>	100 MWh representing 100 qualifying Tier 1 AECs
<b>Currency</b>	US Dollars
<b>Minimum Tick</b>	\$0.01 per MWh
<b>Settlement Price Precision</b>	\$0.01 per MWh
<b>Last Trading Day</b>	Three Business Days prior to the last Business Day of the delivery month
<b>Delivery Day</b>	Three Business Days after the Last Trading Day (Last Business Day of the delivery month)
<b>Contract Series</b>	Monthly contracts for Jun, Jul, and Aug of the vintage year, plus two additional years. The exchange may list any other calendar month contract set off the standard listing cycle for up to 10 years.
<b>Deliverable Product</b>	Pennsylvania Tier 1 AECs eligible for delivery are those which are eligible to meet the Tier 1 renewable energy requirement in the state of Pennsylvania. The requirements are specified in Pennsylvania Statutes Title 73 Chapter 18F and issued by PJM GATS having a vintage or energy year designation that corresponds to the specified vintage of the expiring contract or any prior vintage year that is bankable and can be used for compliance in the specified vintage year without limitation at the time of physical delivery.
<b>Registry</b>	PJM-EIS Generation Attribute Tracking System (PJM GATS)
<b>Daily Settlement Price</b>	Determined by the Exchange based on exchange activity, other market data, and extrapolation to traded contracts, as appropriate
<b>Final Settlement Price</b>	The Daily Settlement Price on the Last Trading Day
<b>Delivery</b>	On the Last Trading Day, the Exchange will provide the Clearing House with information identifying the Participants with delivery obligations for the purpose of issuing Tender and invoice notices in accordance with Section IX (Physical Delivery and Settlement) of the Nodal Clear Rulebook.

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<b>Margin Unit</b>	US Dollars

**NODAL EXCHANGE CONTRACT SPECIFICATION**

**Pennsylvania Compliance Alternative Energy Certificate Tier 1 Vintage 2023**  
**Bankable Future**

<b>ITEM</b>	<b>SPECIFICATION</b>
<b>Contract Description</b>	Physically delivered Pennsylvania Tier 1 Alternative Energy Certificates (“Pennsylvania Tier I AEC”) where an AEC is an electronic certificate issued by PJM GATS for qualifying generation.
<b>Contract Code</b>	PBG
<b>Settlement Method</b>	Physical Delivery
<b>Hours of Trading</b>	As defined at <a href="http://www.nodalexchange.com">http://www.nodalexchange.com</a>
<b>Unit of Trading</b>	1 lot
<b>Lot Size</b>	100 MWh representing 100 qualifying Tier 1 AECs
<b>Currency</b>	US Dollars
<b>Minimum Tick</b>	\$0.01 per MWh
<b>Settlement Price Precision</b>	\$0.01 per MWh
<b>Last Trading Day</b>	Three Business Days prior to the last Business Day of the delivery month
<b>Delivery Day</b>	Three Business Days after the Last Trading Day (Last Business Day of the delivery month)
<b>Contract Series</b>	Monthly contracts for Jun, Jul, and Aug of the vintage year, plus two additional years. The exchange may list any other calendar month contract set off the standard listing cycle for up to 10 years.
<b>Deliverable Product</b>	Pennsylvania Tier 1 AECs eligible for delivery are those which are eligible to meet the Tier 1 renewable energy requirement in the state of Pennsylvania. The requirements are specified in Pennsylvania Statutes Title 73 Chapter 18F and issued by PJM GATS having a vintage or energy year designation that corresponds to the specified vintage of the expiring contractor any prior vintage year that is bankable and can be used for compliance in the specified vintage year without limitation at the time of physical delivery.
<b>Registry</b>	PJM-EIS Generation Attribute Tracking System (PJM GATS)
<b>Daily Settlement Price</b>	Determined by the Exchange based on exchange activity, other market data, and extrapolation to traded contracts, as appropriate
<b>Final Settlement Price</b>	The Daily Settlement Price on the Last Trading Day
<b>Delivery</b>	On the Last Trading Day, the Exchange will provide the Clearing House with information identifying the Participants with delivery obligations for the purpose of issuing Tender and invoice notices in accordance with Section IX (Physical Delivery and Settlement) of the Nodal Clear Rulebook.

## NODAL EXCHANGE CONTRACT SPECIFICATION

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<b>Final Settlement (Payment) Date</b>	Three or four Business Days after the Last Trading Day on the successful delivery of the underlying instruments (if the delivery confirmation is available by 11:30am on the third Business Day after the Last Trading Day, the payment will be made on the same day during the Midday Margin Cycle; if it is available after 11:30am, the payment will be made on the next Margin Cycle which will be the next Business Day)
<b>Position Limit</b>	<a href="https://www.nodalexchange.com/files/autogenerated/Nodal_Rulebook_Appendix_C-Limits_and_Levels.PDF">https://www.nodalexchange.com/files/autogenerated/Nodal_Rulebook_Appendix_C-Limits_and_Levels.PDF</a>
<b>Margin Unit</b>	US Dollars

**NODAL EXCHANGE CONTRACT SPECIFICATION**

**Pennsylvania Compliance Alternative Energy Certificate Tier 1 Vintage 2024**  
**Bankable Future**

<b>ITEM</b>	<b>SPECIFICATION</b>
<b>Contract Description</b>	Physically delivered Pennsylvania Tier 1 Alternative Energy Certificates (“Pennsylvania Tier I AEC”) where an AEC is an electronic certificate issued by PJM GATS for qualifying generation.
<b>Contract Code</b>	PBH
<b>Settlement Method</b>	Physical Delivery
<b>Hours of Trading</b>	As defined at <a href="http://www.nodalexchange.com">http://www.nodalexchange.com</a>
<b>Unit of Trading</b>	1 lot
<b>Lot Size</b>	100 MWh representing 100 qualifying Tier 1 AECs
<b>Currency</b>	US Dollars
<b>Minimum Tick</b>	\$0.01 per MWh
<b>Settlement Price Precision</b>	\$0.01 per MWh
<b>Last Trading Day</b>	Three Business Days prior to the last Business Day of the delivery month
<b>Delivery Day</b>	Three Business Days after the Last Trading Day (Last Business Day of the delivery month)
<b>Contract Series</b>	Monthly contracts for Jun, Jul, and Aug of the vintage year, plus two additional years. The exchange may list any other calendar month contract set off the standard listing cycle for up to 10 years.
<b>Deliverable Product</b>	Pennsylvania Tier 1 AECs eligible for delivery are those which are eligible to meet the Tier 1 renewable energy requirement in the state of Pennsylvania. The requirements are specified in Pennsylvania Statutes Title 73 Chapter 18F and issued by PJM GATS having a vintage or energy year designation that corresponds to the specified vintage of the expiring contractor any prior vintage year that is bankable and can be used for compliance in the specified vintage year without limitation at the time of physical delivery.
<b>Registry</b>	PJM-EIS Generation Attribute Tracking System (PJM GATS)
<b>Daily Settlement Price</b>	Determined by the Exchange based on exchange activity, other market data, and extrapolation to traded contracts, as appropriate
<b>Final Settlement Price</b>	The Daily Settlement Price on the Last Trading Day
<b>Delivery</b>	On the Last Trading Day, the Exchange will provide the Clearing House with information identifying the Participants with delivery obligations for the purpose of issuing Tender and invoice notices in accordance with Section IX (Physical Delivery and Settlement) of the Nodal Clear Rulebook.

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<b>Margin Unit</b>	US Dollars

**NODAL EXCHANGE CONTRACT SPECIFICATION**

**Pennsylvania Compliance Alternative Energy Certificate Tier 1 Vintage 2025**  
**Bankable Future**

<b>ITEM</b>	<b>SPECIFICATION</b>
<b>Contract Description</b>	Physically delivered Pennsylvania Tier 1 Alternative Energy Certificates (“Pennsylvania Tier I AEC”) where an AEC is an electronic certificate issued by PJM GATS for qualifying generation.
<b>Contract Code</b>	PBI
<b>Settlement Method</b>	Physical Delivery
<b>Hours of Trading</b>	As defined at <a href="http://www.nodalexchange.com">http://www.nodalexchange.com</a>
<b>Unit of Trading</b>	1 lot
<b>Lot Size</b>	100 MWh representing 100 qualifying Tier 1 AECs
<b>Currency</b>	US Dollars
<b>Minimum Tick</b>	\$0.01 per MWh
<b>Settlement Price Precision</b>	\$0.01 per MWh
<b>Last Trading Day</b>	Three Business Days prior to the last Business Day of the delivery month
<b>Delivery Day</b>	Three Business Days after the Last Trading Day (Last Business Day of the delivery month)
<b>Contract Series</b>	Monthly contracts for Jun, Jul, and Aug of the vintage year, plus two additional years. The exchange may list any other calendar month contract set off the standard listing cycle for up to 10 years.
<b>Deliverable Product</b>	Pennsylvania Tier 1 AECs eligible for delivery are those which are eligible to meet the Tier 1 renewable energy requirement in the state of Pennsylvania. The requirements are specified in Pennsylvania Statutes Title 73 Chapter 18F and issued by PJM GATS having a vintage or energy year designation that corresponds to the specified vintage of the expiring contractor any prior vintage year that is bankable and can be used for compliance in the specified vintage year without limitation at the time of physical delivery.
<b>Registry</b>	PJM-EIS Generation Attribute Tracking System (PJM GATS)
<b>Daily Settlement Price</b>	Determined by the Exchange based on exchange activity, other market data, and extrapolation to traded contracts, as appropriate
<b>Final Settlement Price</b>	The Daily Settlement Price on the Last Trading Day
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<b>Margin Unit</b>	US Dollars