	OLUTION MARKETS				Product Inventory Q1 202		
Market	Product Name	Product Description	Term	History	Contract Spec		
	CCA	Californian Carbon Allowance (CCA) issued by the Air Resources Board of the State of California for use in the State's carbon cap-and-trade program.	1M, 1Y, 2Y, With Matching Vintages 2Y/1Y Spread	2011	1 CCA = 1 Metric Tonne of CO2 Equivalent		
_	RGGI OTC	Regional Greenhouse Gas Initiative (RGGI) Allowances as defined by a certain memorandum of understanding (MOU) and subsequent Model Rule between RGGI member states, which MOU was executed on or about December 20, 2005 as amended from time to time. There is the state of the stat	Promt Transfer	2008	1 RGGI = 1 Short Tonne of CO2 Equivalent		
	RGGI	Regional Greenhouse Gas Initiative (RGGI) Allowances as defined by a certain memorandum of understanding (MOU) and subsequent Model Rule between RGGI member states, which MOU was executed on or about December 20, 2005 as a mended from time to time.	1Y, 2Y/1Y Spread	2008	1 RGGI = 1 Short Tonne of CO2 Equivalent		
C. I	Golden CCO Non-DEBS	An ARB-compliant offset under AB 32 in which the volume is guaranteed by the seller and the seller guarantees to replace CCOs invalidated by ARB with an equal amount of CCAs. One CCO is equal to 1 metric tonne of CO2 equivalent.	Prompt Transfer	2013	1 GCCO = 1 Metric Tonne of CO2 Equivalen		
Carbon	Golden CCO DEBS	An AB8-compliant offset under AB 32 in which the volume is guaranteed by the seller and the seller guarantees to replace CCOs invalidated by AB8 with an equal amount of CCAs. One CCO is equal to 1 metric tonne of CO2 equivalent. DEBS = Direct Environmental Benefits.	Prompt Transfer	2013	1 GCCO = 1 Metric Tonne of CO2 Equivalen		
	CCO (3) Non-DEBS	An ARB-compliant Offset under AB 32 with three (3) year invalidation borne by Buyer.	Prompt Transfer	2013	1 CCO = 1 Metric Tonne of CO2 Equivalent		
	CCO (8) Non-DEBS CCO (8) DEBS	An ARB-compliant Offset under AB 32 with eight (8) year invalidation borne by Buyer. An ARB-compliant Offset under AB 32 with eight (8) year invalidation borne by Buyer. DEBS = Direct Environmental Benefits.	Prompt Transfer Prompt Transfer	2013 2013	1 CCO = 1 Metric Tonne of CO2 Equivalen 1 CCO = 1 Metric Tonne of CO2 Equivalen		
-	LCFS	events. A Low Carbon Fuel Standard is a market-based system that focuses on reducing carbon intensity of fuels within California. Part of several AB32 measures to reduce greenhouse gas emissions throughout the state.	Prompt Transfer, Q1-Q4, 1Y, 2Y, 3Y	2021	1 LCFS = 1 Metric Tonne of CO2 Equivalen		
=	GEO	The Global Emissions Offset futures (GEO) contract is a physically settled contract that allows for delivery of CORSIA eligible voluntary carbon offset credits from three registries: Verified Carbon Standard (VCS), American	1Y, 2Y	2021	1 GEO = 1 Metric Tonne of CO2 Equivalen		
	NGEO	Carbon Resistry (AGR) and Climate Action Reserve (CAR). Nature-based global emissions futuresrequire delivery of a specific quantity of carbon offset credits on a future date that the seller will have earned for planting trees, preserving a forest that would otherwise be	1Y, 2Y	2021	1 NGEO = 1 Metric Tonne of CO2 Equivale		
	Oregon CFP	cut down and similar actions. Oregon's Clean Fuels Program (CFP) is a market-based program focused on reducing the carbon intensity (CI) of	Prompt- 1H, 1H-1Y	2023	1 CFP = 1 Metic Tonne of CO2 Equivalent		
	WCA	transportation fuels used in Oregon. Washington Carbon Allowance (CCA) issued by the Air Resources Board of the State of Washington for use in the State or carbon can and trade processor	1Y, 2Y	2022	1 WCA = 1 Metric Tonne of CO2 Equivalen		
	WA CFS	Washington Clean Fuel Standard.	1Y, 2Y	2022	1 CFS = 1 Metric Tonne of CO2 Equivalen		
	Canada CFR (Liquid Class)	Canada's Clean Fuel Regulations (CFR) are a set of rules and requirements implemented by the Federal government to reduce greenhouse gas (GHG) emissions from the transportation sector.	1Y	2023	1 CFR = 1 Metric Tonne of CO2 Equivalen		
	National SO2	Sulfur Dioxide (SO ₂) Emissions allowances for use in compliance with the US EPA's Acid Rain program under Title IV of the Clean Air Act.	1Y	2000	Each allowance represents an authorization to e ton of emissions per allowance held in a comp period		
	HGB NOx	NOx emissions allowances for use in compliance with the emissions reduction cap and trade program in the Houston/Galveston/Brazoria Area.	Vintage 2009+, Vintage 2015, Vintage 2016	2002	Each allowance represents an authorization to e ton of emissions per allowance held in a comp period		
	CSAPR Annual NOx	Nitrogen Oxide (NOx) Emissions allowances for use in compliance with the US EPA's Cross-State Air Pollution Rule to reduce NOx emissions on an annual basis. Covered states include: AL, GA, IL, IN, IA, KS, KY, MD, MI, MN, MO, NE, NJ, NY, NC, OH, AS, SCT, IN, XY, AWV, WI.	1Y	2011	Each allowance represents an authorization to e ton of emissions per allowance held in a comp period		
	CSAPR SO2 Group 1	Sulfur Dioxide (SO ₂) Emissions allowances for use in compliance with the US EPA's Cross-State Air Pollution Rule. Group 1 allowances are allocated to sources located in Group 1 states: IL, IN, IA, KY, MD, MI, MO, NJ, NY, NC, OH, PA, PN, VA, WV, VII.	1Y	2011	Each allowance represents an authorization to ton of emissions per allowance held in a comp period		
Emissions (SO2, NOx)	CSAPR SO2 Group 2	Sulfur Dioxide (SO ₂) Emissions allowances for use in compliance with the US EPA's Cross-State Air Pollution Rule. Group 2 allowances are allocated to sources located in Group 2 states: AL, GA, KS, MN, NE, SC, TX. States can only	1Y	2011	Each allowance represents an authorization t ton of emissions per allowance held in a co		
	CSAPR Seasonal NOx Group 2	trade SO2 allowances with states in the same group. Nitrogen Oxide (MOX) Emissions allowances for use in compliance with the US EPA's Cross-State Air Pollution Rule to reduce NOx emissions on a seasonal basis. Group 2 allowances are allocated to sources located in Group 2 states. For more information: https://www.ea.go/c/sany/god-neighbor-plan-2015-ocone-naaqs	1Y	2011	period Each allowance represents an authorization ton of emissions per allowance held in a co period		
_	Massachusetts Carbon	Massachusetts Greenhouse Gas Initiative. Over 65% of Massachusetts' emissions come from our cars, trucks, homes, and offices; another 20% comes from the power plants that provide electricity for our lights, computers, and apoliances.	1Y	2018	Each allowance represents an authorization to ton of emissions per allowance held in a com		
	CSAPR Seasonal NOx Group 3	Notice Note (NOx) Emissions allowances for use in compliance with the US EPA's Cross-State Air Pollution Rule to reduce NOx emissions on a seasonal basis. Group 3 allowances are allocated to sources located in Group 3 states. For more information: https://www.epa.gov/catp/good.neighbor-plane.2015.cozone-aaajs	1Y	2022	period Each allowance represents an authorization to ton of emissions per allowance held in a com		
	CA B&C REC	California Book & Claim REC. Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Class I renewable generator under the Connecticut	1Y, 2Y, 3Y	2023	period 1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		
	CA PCC REC	Renevable Portfolio Standard (RPS). California Portfolio Content Category REC. Renevable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Class I renewable generator under the Connecticut	2022, 1Y, 2Y	2023	1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		
	CT Class I REC	Renewable Portfolio Standard (RPS). Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated for a qualifying Class Intenewable generator under the Connecticut Renewable Portfolio Standard (RPS). CT Class I RECs may be traded and used to meet CT Class I RPS solligations during the compliance period, which begins Jan. 1 and ends Dec. 31 of each vintage year. The CT RPS ham tuble classes of renewables depending on generation type. Class I indudes such resources as wind, landfill qualifying biomass and others.	1Y, 2Y, 3Y, 4Y, 5Y	2008	1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		
	CT Class II REC	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Class II renewable generator under the Connecticut Renewable Portfolio Standard (RPS). CT Class II REC: may be traded and used to meet CT Class II RS-bigliognost during the compliance period, which begins Jan. 1 and ends Dec: 31 of each vintage year. The CT RPS has multiple classes of renewables depending on generation type. Class II includes und resources to multiple sol to the class of the clas	14, 24	2008	1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		
	CT Class III REC	Renewable Energy Credits (RECs) represent the environmental attributes of one magawatt-hour of electricity generated for a qualifying Class III renewable generator under the Connectica Renewable Portfolio Standard (RPS). CT Class III RECs may be traded and used to meet CT Class III RPS obligations during the compliance period, which begins Jan 1 and ends Dec. 31 of each virtuge year. The CT RPS has multiple class of renewables depending on generation type. Class III includes such resources as energy efficiency potest and cognerotion applications.	14, 24, 34	2008	1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		
	DC Solar REC	Renewable Energy Credits (RECs) represent the environmental attributes of one magavatt-hour of electricity generated from a qualifying Sator renewable generator under the Diritor of Columba Renewable Portfolio Standard (RPS). DC SRECs may be traded and used to meet DC Solar RPS obligations during the compliance period, which begins Jan. 1 and ends Dec. 31 of each viritage year. The DC RPS has multiple classes of renewables depending on generation type. The Solar Class includes solar VP generating sources.	2022, 1Y, 2Y, 3Y, 4Y	2009	1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		
	DC Tier 1 REC	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Tier renewable generator under the District of Columbia Renewable Portfolio Standard (RPS). DC Tier (RECs may be traded and used to meet DC Tier (RPS obligations during the compliance period, which begins Jan 1 and ends Dec; 31 of each vintage year. The DC RPS has multiple classes of renewables depending on generation type. Tier I includes such resources as wind, landfitti qualifying biomass and others.	2022, 1Y, 2Y, 3Y, 4Y, 5Y	2008	1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		
	CRS National Wind REC	CRS (Center for Resource Solutions) renewable energy must be generated from new facilities that meet rigorous standards for environmental quality. The ultimate owner of the CRS REC owns the amount of wind generated.	1Y, 2Y, 3Y, 4Y, 5Y, 6Y, 7Y, 8Y	2023	1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		
F	CRS Texas Wind REC	CRS (Center for Resource Solutions) renewable energy must be generated from new facilities that meet rigorous standards for environmental quality. The ultimate owner of the CRS Texas Wind REC owns the amount of wind generated.	1Y, 2Y, 3Y, 4Y, 5Y, 6Y, 7Y, 8Y	2023	1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		
	CRS National Solar REC	CRS (Center for Resource Solutions) renewable energy must be generated from new facilities that meet rigorous standards for environmental quality. The ultimate owner of the CRS REC owns the amount of solar generated.	2021, 2022, 1Y, 2Y, 3Y, 4Y	2023	1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		
	MA APS	The Massachuseths Alternative Energy Portfolio Standard is a mandatory market-based program which requires that a fraction of the electricity sold by the states retail electricity suppliers be generated using alternative energy technologies. Generators obtain AEC's (Alternative Energy Certificates) for the electricity they produce. AEC's are then	1Y, 2Y, 3Y, 4Y, 5Y	2009	1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		
-	MA CES	sold to electricity suppliers The Massachusetts Clean Energy Standard sets a minimum percentage of electricity sales the utilites and retail electricity suppliers must procure from clean energy sources. The ultimate owner would acquire Clean Energy Credits	1Y, 2Y, 3Y	2009	1 REC = 1 megawatt-hour (MWh) of electricity ge from 1 renewable energy resource.		
-	MA CES-E	ICECs or make alternative compliance payment. The Massachusetts Clean Energy Standard sets a minimum percentage of electricity sales the utilites and retail electricity suppliers must procure from clean energy sources for existing resources. The ultimate owner would acquire	1Y, 2Y, 3Y	2009	1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		
	MA CPS	Clean Energy Credits (CECs) or make alternative compliance payment. The Massachussetts Clean Peak Energy Standard provides benefits to clean energy technologies that can supply	2021, 2022, 1Y, 2Y, 3Y	2009	1 REC = 1 megawatt-hour (MWh) of electricity g		
-	WA CPS	electricity or reduce electrical demand during seasonal peak. Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity	2021, 2022, 11, 21, 31	2009	from 1 renewable energy resource.		
	MA Class I	generated from a qualifying Tier 1 renewable generator under the Massachusettes Renewable Portfolio Standard (RPS), MA Tier 1 RECs may be traded and used to meet MA Tier 1 RPS obligations during the compliance period, which begins Jan. J and ends De. 3 of each vintage year. The MA RPS has multiple classes of renewables depending on	1Y, 2Y, 3Y, 4Y, 5Y	2009	1 REC = 1 megawatt-hour (MWh) of electricity g from 1 renewable energy resource.		

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	MA Class II	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Tier 2 renewable generator under the Massachusettes Renewable Portfolio Standard (RPS). MA Tier 2 RECs may be traded and used to meet MA Tier 2 RPS obligations during the compliance period, which benins an 1, and ends Dec 31 of each vinage var.	1Y, 2Y, 3Y, 4Y	2011	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	MA Class II WTE	Massachusetts "Class II" Waste to Energy Renewable Energy Certificates (RECs)	1Y, 2Y, 3Y, 4Y	2009	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	MA Solar I	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying renewable generator under the Massachusettes Renewable Portfolio Standard (RPS). MA Solar II RECs may be traded and used to meet MA Solar II RPS obligations during the compliance period, which begins Ian. 1 and ends Dec. 31 of each vintuae vear.	2022, 1Y, 2Y, 3Y, 4Y, 5Y	2014	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	MA Solar II	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying renewable generator under the Massachusettes Renewable Portfolio Standard (RPS). MA Solar II RECs may be traded and used to meet MA Solar II RPS obligations during the compliance period, which begins Jan. 1 and ends Dec. 31 of each vintage vear.	1Y, 2Y, 3Y, 4Y, 5Y	2014	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	MD Solar	Renewable Energy Credits (REC) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Solar menawable generator under the Maryahand Renewable Portfolio Standard (RS). MD SRECs may be traded and used to meet MD Solar RPS obligations during the compliance period, which begins Jan. 1 and ends Dec. 31 of each vintage year. The MD RPS has multiple classes of renewables depending on generation type. The Solar Class Indued solar VP generating sources.	1Y, 2Y, 3Y, 4Y, 5Y, 6Y	2011	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	MD Tier I	Renewable Energy Credits (REC3) represent the environmental attributes of one megavatt-hour of electricity generated from qualifying Tier 1 renewable generator under the Maryland Renewable PortIolio Standard (RES). MD Tier 1 RECs may be traded and used to meet MD Tier 1 RPS obligations during the compliance period, which begins lan. 1 and ends Dec. 31 of each vintage year. The MD RPS has multiple classes of renewables depending on generation how Renewable Energy Credits (REC3) represent the environmental attributes of one megavatt-hour of electricity.	2022, 1Y, 2Y, 3Y, 4Y, 5Y	2008	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	MD Tier II	enerated from a qualifying time? / the versible generator under the Maryland Renewable Portfolio Standard (RS). MD Tier 2 RECs may be traded and used to meet MD Tier 2 RPS obligations during the compliance period, which begins Jan. 1 and ends Dec. 31 of each vintage year. The MD RPS has multiple classes of renewables depending on generation true.	2022, 1Y, 2Y	2008	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	ME Class I	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Class I renewable generator under the Manie Renewable Portfolio Standard (RPS) ME Class I RECs may be traded and used to meet ME Class 1 RPS obligations during the compliance period, which begins Jan. 1 and ends Dec 3 of each vintage year (for Carity ME's program is on a calendar year basis which is quoted as the year in which the period ends. Calendar Year 2007 is defined as the compliance period January 1, 2007 through December 31, 2007). The RPS has multiple classes of renewables depending on generation type. Class I includes such resources as wind, landfil qualifying biomass and others.	14, 24, 34, 44	2008	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	ME Class IA	ME Class IA RECs is a resource defined under the Maine RPS as a "Class I resource other than a Class I resource that for at least 2 years was not operated or was not recognized by the New England Independent System Operator as a capacity resource."	1Y, 2Y, 3Y, 4Y	2020	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	ME Class II	Renewable Energy Credits (REC3) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Class II renewable generator under the Manie Renewable Portfolio Standard (RPS). ME Class IRECs may be traded and used to meet ME Class IRPS obligations during the compliance period, which begins Jan. 1 and ends Dec 31 of each vintage year (for clarity ME's program is on a calendar year basis which is quoted as the year in which the period ends. Calendar Year 2007 is defined as the compliance period of January 1, 2007 through December 31, 2007). Class II resources includes large scale hydro.	17, 27, 37, 47	2008	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	NEPOOL Dual Qualified Class I		2022, 1Y, 2Y, 3Y, 4Y, 5Y	2022	1 REC = 1 megawatt-hour (MWh) of electricity generated
Renewable Energy Credits	NH Class I	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Class I renewable generator under the New Hampshire Renewable Portfolio Standard (RPS). NH Class RECs may be tradead and used to meet NH Class JRPS obligations during the compliance period, which begins Jan. 1 and ends Dec 31 of each vintage year (for clarity, NH's program is on a calendar year basis which is quoted as the year in which the period ends. Calendar vera 2007 is defined as the compliance period of January 1, 2007 Through December 31, 2007). The NH RPS has multiple classes of renewables depending on generation type. Class includes such resources as which, landifil qualifying biomass and others.	14, 24, 34, 44, 54	2009	rrom 1 renewable energy resource. 1 REC = 1 mggawalt-hour (MWh) of electricity generated from 1 renewable energy resource.
	NH Class II	Renewable Energy Credits (REC) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Class II envewable generator under the New Hangbhare Renewable Portfolio Standard (MS). NH Class REC: may be traded and used to meet NM Class II MS obligations during the compliance period, which begins Jan. 1 and ends Dec 31 of each vintage year (for Clarity NM's program is on a calendar year basis which is quoted as the year in which the period ends. Calendar Year 2007 is defined as the compliance period of January 1, 2007 (Horugh) December 31, 2007). The NH RPS has multiple classes of renewables depending on generation type. Class II includes solar resources.	14	2009	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource. 1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource. 1 REC = 1 megawatt-hour (MWh) of electricity generated 1 REC = 1 megawatt-hour (MWh) of electricity generated
	NH Class III	Renewable Energy Credits (REC) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Class III renewable generator under the New Hampbine Renewable Portfolio Standard (RS). NH Class III RECs may be traded and used to meet NH Class III RPS obligations during the compliance period, which begins Jan. 1 and ends Dec. 31 of each vintage year. The NH RPS has multiple classes of renewables depending on generation type. Class III includes such resources are energy efficiency projects and cogeneration applications provides and provide such resources and the such resources are energy efficiency projects and cogeneration applications applications and provide such resources and the such resources are energy efficiency projects and cogeneration applications applications and provide such resources and the such resources are energy efficiency projects and cogeneration applications applications and provide such resources and the such resources are provided and the such resources are provided and the such resources and the such resources and the such resources are provided and the such resources and the such resources are provided and the such resources are provided and the such resources and the such resources and the such resources are provided	14, 54	2009	
	NH Class IV	Renewable Energy Credits (REC) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Class N renewable generator under the New Hampshire Renewable Portfolio Standard (RS). Hri Class N REC: may be traded and used to meet NN Class IV RPS obligations during the compliance period, which begins Jan. 1 and ends Dec 31 of each vintage year (for Carthy NH's program is on a calendar year basis which is quoted as the year in which the period ends. Calendar Veraz 2007 is defined as the compliance period of January 1, 2007 through December 31, 2007). The NH RPS has multiple classes of renewables depending on generation type. Class N includes such resources as existing hydro.	14, 24	2009	
	NJ Class I REC	Bennexable Energy Credits (BECs) represent the environmental attributes of one megawatt-hour of electricity generated from squalibying Class Tenewable generator undre the Kelve kernes Reenvable Portfolio Standard (RPS). NI Class I RECs may be traded and used to meet NI Class 1 RPS obligations during the compliance period, which begins Jun. 1 and ends May. 33 of each viriage year (for Clarity NJ's program is on a reporting year basis which is quoted as the year in which the period ends. The periority first 2015 of defined as the compliance period June 1, 2006 through May 31, 2007). The NI RPS has multiple classes of renewables depending on generation type. Class I includes such resources as wind, lundifit qualifying biomass and others.	2022, 1Y, 2Y, 3Y, 4Y, 5Y	2008	
	NJ Class II REC	Renewable Energy Credits (RECs) represent the environmental attributes of one megawati-hour of electricity generated from qualifying Class II renewable generator under the Nev Leviersy Renewable Portfolio Standard (RPS). NJ Class II RECs may be traded and used to meet NJ Class II RPS obligations during the compliance period, which begins Jun 1 and ends May, 31 of each virtage year (for clarity NVB sprogram is on a reporting year basis which is quoted as the year in which the groot ends. Reporting year 2000 is defined as the compliance period of June 1, 2006 through May 31, 2007). The NJ RPS has multiple classes of renewables depending on generation type. Class II includes such resources a municipal solid waste and small hydro.	1Y, 2Y, 3Y, 4Y	2008	
	NJ Solar REC	Benevable Energy Credits (BECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualitying solar renevable generator under the New Jerey Renevable Portfolio Standard (RPS). NJ Class Solar RECs (SRECs) may be traded and used to meet NJ SREC RPS obligations during the compliance period, which begins Jun. 1 and ends May. 31 of each vintage year (for darity NJ's program is on a reporting year basis which is quoted as the year in which the period ends. Reporting Year 2001 s defined as the compliance period hum 41, 2006 through May 31, 2007). The NL RPS has multiple classes of renevables depending on generation type. The Solar Class includes solar PV generating sources.	2022, 1Y, 2Y, 3Y, 4Y, 5Y, 6Y	2008	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	NY EDP Hydro		2022, 1Y, 2Y, 3Y, 4Y	2022	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	NY EDP Wind		2022, 1Y, 2Y, 3Y, 4Y	2022	1 REC = 1 megawatt-hour (MWh) of electricity generated
	NY Tier I REC	NY Tier I RECs may be traded and used to meet NY Tier I RPS obligations during the compliance period, which begins I an 1 and ends Dec. 31 of each vintage year. The NY RPS has multiple classes of renewables depending on generation type. Tier I refers to RECs that have been newly generated and come from the cleanest renewable resources.	2022, 1Y		from 1 renewable energy resource. 1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	OH Non Solar REC	Non-Solar RECs are issued certificates eligible for generation of electricity based on renewable energy sources other than solar. Ohio Non-Solar certificates are sold to the obligated entities to meet their obligation for purchases from	2022, 1Y, 2Y, 3Y, 4Y	2014	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	PA Solar REC	renewable energy sources that do not involve solar. Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from aquilying solar enewable generator under the Pennsylvania Renewable Portfolio Standard (RPS). PA Class Solar RECs (SRECs) may be traded and used to meet PA SREC RPS obligations during the compliance period, which begins Jun. Jan dends May. J3 deach vintage year (for darity PAS program is on a reporting year basis which is guoted as the year in which the period ends. Reporting Year 2007 is defined as the compliance period of June 1, 2006 through May 31, 2007). The AR BPS has multiple classes of renewables depending on generation type. The Solar Class includes solar PV generating sources.	2022, 1V, 2Y, 3Y, 4V, 5Y	2008	from 1 renewable energy resource. 1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	PA Tier 1 REC	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying Tier I renewable generator under the Pennsylvaria Renewable Portfolio Standard (RPS). PA Tier I RES: may be traded and used to meet PA Tier RPS obligations druing the compliance period, which begins Jun. 1 and ends May. 31 of each virtage year (for clarity PA's program is on a reporting year basis which is quoted as the year in which the period ends. Reporting Year 2000 is defined at the compliance period of June 1, 2006 through May 31, 2007). The PA RPS has multiple classes of renewables depending on generation type. Tier I includes such resources as wind, landfill qualifying biomass and others.	2022, 1Y, 2Y, 3Y, 4Y, 5Y	2008	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.

1		Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity			
	PA Tier 2 REC	generated from a qualifying Tier II renewable generator under the Pennsylvania Renewable Portfolio Standard (PR). PA Tier II RECs may be traded and used to meet PA Tier II RPS obligations during the compliance period, which begins Jun. 1 and ends May 31 of each vintage year (for clarity PA's program is on a reporting year basis which is quoted as the year in which the period ends. Reporting Year 2007 is defined as the compliance period of June 1, 2006 through May 31, 2007). The PA RPS has multiple classes of renewables depending on generation type. Tier II includes such resources as municipal solid waste, waste coal generation and small hydro.	2022, 1Y, 2Y, 3Y, 4Y	2008	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	PJM TRI Qualified REC (NJ1/PA1/MD1)	Class I: Renewable Energy Certificates, Tier I: Renewable Energy Credits and Tier I: Alternative Energy Credits. Where a Class I: REC is an electronic certificate issued by the PME Morinomental Information System Generation Attribute Tracking System (PM GATS) for generation in the Pennsylvania, New Jersey, and Maryland renewable portfolio standard anorems.	2022, 1Y, 2Y, 3Y, 4Y, 5Y, 6Y	2014	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	RI "Existing" REC	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying renewable generator under the Rhode Island Renewable Portfolio Standard (INPS). RI RECs may be traded and used to meet RPS Soligitation during the compliance period, which begins an 1 and ends Dec 31 of each viritage year. Eligible generation includes solar, wind, geothermal, tidal, ocean, small hydroelectric, qualifying biomass, and fue cells powered by renewable sources. Pre 97	17, 27, 37	2009	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	RI "NEW" REC	Renewable Energy Credits (RECs) represent the environmental attributes of one measuret-hour of electricity generated from a qualifying renewable generator under the Rhode Island Renewable Portfolio Standard (RPS). RI RECs may be traded and used to meet RRS Soligitation adrum; the compliance period, which begins in 1 and ends Dec 31 of each viritage year. Eligible generation includes solar, which genthermal, tidal, ocean, small hydroelectric, qualifying biomass, and fuel cells powered by renewable sources. Post 97	14, 24, 34, 44, 54	2009	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	TX National Wind REC	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying renewable generator under the Texas Renewable Portfolio Standard (RPS). TX RECs may be traded and used to meet RPS obligations during the compliance period, which begins Jan. 1 and ends Dec. 31 of each vintage year and can be banked for use in three successive compliance years.	1Y, 2Y, 3Y, 4Y, 5Y	2023	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	TX Solar REC	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying renewable generator under the Texas Renewable Portfolio Standard (RPS). TX RECs may be traded and used to meet RPS obligations during the compliance period, which begins Jan. 1 and ends Dec. 31 of each vintage year and can be banked for use in three successive compliance years.	1Y, 2Y, 3Y, 4Y, 5Y	2021	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	Virginia REC (Non Solar)	Non-Solar RECs are issued certificates eligible for generation of electricity based on renewable energy sources other than solar. Virginia Non-Solar certificates are sold to the obligated entities to meet their obligation for purchases from renewable energy energy to the dop of involve other.	2022, 1Y, 2Y	2019	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	CSX -1%	ORIGNE CSX Kanawha and/or Big Sandy Freight Districts; CONTRACT SIZE: Unit Trains of approximately 11,000 tons; BTU: 12,500 Btu/lb, with rejection below 12,200 Btu/lb; MOSTURE: 7% typical, ASH: 12.0% with rejection above 13.5%; SO2: registe above 12.1B: SO2 (compliance coal); reject above 3% util/r LiSs util/r; HiS: 42-45 typical, reject below 40; VOLATLE MATTER: Minimum 30%; SIZING: 2" x 0" with maximum 55% below 14"; INITIAL FUSION TEMP: 2,600 AFT typical; BTU ADUSTNEWT (\$/non): Price x (IActual Btu/lb:12,500) / 12,500); DELIVERY POINT: FOB Ralicar, mine, capable of loading 10,000 turn trains on Ahrs or elss	Cai 24, Cai 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24, Q3 24, Q4 24, 1M, 2M, 3M	2001	
	CSX -1% FS	Financially settled CSX -1% contract. Contract size: 1,000 tons. Settle monthly against the corresponding Platts OTC Broker index.	Cal 24, Cal 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24, Q3 24, Q4 24, 1M, 2M, 3M	2004	
	NS - 1%	ORIGIN: NS Kenova and/or Thacker (I) Freight Districts: CONTRACT SIZE: Unit Trains of approximately 10,000 tons; BTU: 12,500 Btu/lb, with rejection below 12,200 Btu/lb, MOISTURE: 7% typical, ASH: 12.0% with rejection above 13,5%; SO2: reject above 1.2 Ibs. SO2 (compliance cal); reject above 2% suffur (-1% suffur); HGI: 42-45 typical, reject below 40, VOLATLE MATTER: Minimum 30%; SZIMG: 2* of "with maximum 55% below 1/4"; INITAL FUSION TEMP: 2,600 AFT typics; BTU ADUISTMENT (S/ont); Price (Atcusa Btu/lb-12,500);12,500); DELIVERY POINT: FOB Railcar, mine, capable of loading 10,000 ton trains on Ahrs or less	Cal 24, Cal 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24, Q3 24, Q4 24, 1M, 2M, 3M	2000	
	NYMEX	NYMEX coal is 12000-1% 13.5% coal that is loaded in the barge either on the big sandy river or the ohio river. Although the traded cleared product no longer exists, NYMEX type coal is still and bought and sold by producers and utilities.	Cal 24, Cal 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24, Q3 24, Q4 24, 1M, 2M, 3M	2000	
	NYMEX FS	Financially settled NYMEX contract. Contract size: 1,550 tons. Settle monthly against the corresponding Platts OTC Broker index.	Cal 24, Cal 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24, Q3 24, Q4 24, 1M, 2M, 3M	2006	
	PRB8800	ORIGNE Southern Powder River Basin excluding Jacobs Ranch; CONTRACT SIZE: Unit Trains of approximately 15,000 tom; BTU 8,800 Btu/lb, with rejection below 8,600 Btu/lb, MOISTURE: 27% with no rejection limit above; SAI: 5.5% with no rejection limit above; SOI: SOI: SOI/AmBBU with reject above; Tables 20; SOI/WINE: 15% with no rejection limits; BTU ADIUSTMENT (\$/ton): Frice x (IActual Btu/lb-8,800)(8,800); SO2 ADIUSTMENT (\$/ton): (I,801bs SO2/AmBBU-Actual Btu-SOI/AmBBU Actual Btu/lb-*ar Daily SO2 price)/1,000,000; DELIVERY POINT: FOB Bailcar, mine, jointly served by both UP and BN railroads	Cal 24, Cal 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24, Q3 24, Q4 24, 1M, 2M, 3M	2000	
	PRB8800 FS	Financially settled PRB 8800 contract. Contract size: 1,000 tons. Settle monthly against the corresponding Platts OTC Broker index	Cal 24, Cal 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24, Q3 24, Q4 24, 1M, 2M, 3M	2004	
Coal	PR85400	ORIGIN: Southern Powder River Basin excluding Jacobs Ranch; CONTRACT SIZE: Unit Trains of approximately 15,000 tons; BTU: 8,400 Btu/lb. with rejection below 8,200 Btu/lb.; MOISTURE: 30% with no rejection limit above; SO2: 80 lbs: SO2/mmBtu with reject above 1.2 lbs: SO2; SODUM: 1.5% with no rejection limits; BTU ADIUSTMENT: (\$/non) Price x ((Actual Btu/lb-8,400)/8,400); SO2 ADIUSTMENT (\$/ton): ((.80lbs SO2/mmBtu-4ctual lbs: SO2/mmBtu-4ctual Btu/lb-8,400)/8,400); SO2 ADIUSTMENT (\$/ton): ((.80lbs SO2/mmBtu-4ctual lbs: SO2/mmBtu-4ctual Btu/lb-8,400)/8,400); SO2 ADIUSTMENT (\$/ton): (T.80lbs SO2/mmBtu-4ctual lbs: SO2/mmBtu-4ctual Btu/lb-8,400)/8,400); SO2 ADIUSTMENT (\$/ton): (T.80lbs); SO2 ADIUSTMENT (\$/ton): (T.80lbs); SO2/mmBtu-4ctual Btu/lb-8,400)/8,400); SO2 ADIUSTMENT (\$/ton): (T.80lbs); SO2/mmBtu-4ctual Btu-4ctual	Cai 24, Cai 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24, Q3 24, Q4 24, 1M, 2M, 3M	2000	
	ILB 11500 3.0%	ORIGNEI Illinois Basin CME; BTU: 11,500 bru/lb standard gross calorific value, 11,000 bru/lb minimum (American Society for Testing and Materials ("A.S.T.M.") D5685); ASH-Maximum 12.00% (A.S.T.M. D3174); SULFUR-Maximum 33% (A.S.T.M. 02329); MOISTURE: Maximum 14.00% (A.S.T.M. D302); VOLATILE MATTER: Minimum 33.05% (A.S.T.M. D3175); GRINDABLITY: Minimum 50 Hardgrove Index (Hoi) (A.S.T.M. D409); CHI-DINE: Maximum 33% (A.S.T.M. D4208); ASH PUSION TEMPERATURE (AFT): 18.50 degrees Fahrenheit; as measured by initial deformation temperature (IDT), reducing atmosphere (A.S.T.M. D1857); SI2ING: Three inches topsize, nominal, with maximum fifty five percent passing one quarter inch square wire cloth sieve to be determined basis the primary cutter of the mechanical sampling system. (A.S.T.M. D4749);	Cal 24, Cal 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24, Q3 24, Q4 24, 1M, 2M, 3M	2017	
	ILB 11800 5.0%	ORIGIN-Illinois Basin CME; BTU: 11,500 btu/lb standard gross calorific value, 11,100 btu/lb minimum (American Society for Testing and Materials ("AS:TM.") D5683); ASH:Maximum 12.00% (AS.TM. D317); SUFURMaximum 5X, (AS:TM. D4239); MOSTUBE: Haximum 41.00% (AS:TM. D302); VOHILE MATTER: Minimum 33.05% (AS:TM. D3275); GRINDABLITY: Minimum 50 Hardgrove Index (HGI) (AS:TM. D409); CHI-DINE: Maximum 335% (AS:TM. D4208); ASH ("DSIO TEME-EXATURE" (AFT): L830 degrees Fahrenheit; as measured by initial deformation temperature (IDT); reducing atmosphere (AS:TM. D1057); S2IMG: Three Inches topsize, nominal, with maximum fifty five percent passing one quarter inch square wire cloth sieve to be determined basis the primary cutter of the mechanical sampling system. (AS:TM. D478);	Cal 24, Cal 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24, Q3 24, Q4 24, 1M, 2M, 3M	2018	
	ILB FOB NOLA 6000 3.0%	ORIGNELIIIinois Basin CME; BTU: 11,500 bru/ly Standard gross calorific value, 11,100 bru/ly minimum (American Society for Testing and Materials ("A.S.T.M.") D5685); K3H:Maximum 12,00% (A.S.T.M. D3174); SULFUR:Maximum 3% (A.S.T.M. 24239); MOISTURE: Maximum 14,00% (A.S.T.M. D302); VOLATILE MATTER: Minimum: 30.00% (A.S.T.M. D3175); CRINDABLITY: Minimum 50 Hardgrove Index (Hoil (A.S.T.M. D409); CHIOBNE: Maximum 0.3% (A.S.T.M. D4288); ASH LOSION TEMPERATURE (AFT): 2.850 degrees Fahrenheit; as messured by Initial deformation temperature (IDT); reducing atmosphere (A.S.T.M. D1857); SZIMG: Three inches topsize, nominal, with maximum fifty five percent passing one quarter inch square wire doth sieve to be determined basis the primary cutter of the mechanical sampling system. (A.S.T.M. D4749);	Cal 24, Cal 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24, Q3 24, Q4 24, 1M, 2M, 3M	2018	
	NAPP 13000 3% FOB Rail	Northern Appalachian prices loaded into the railcar at the mine where the BTU = 13000 and the sulfur content in the coal is 3%. Northern Appalachian prices loaded into the vessel in Baltimore, Maryland, where KCAL = 6900 and the sulfur content	Cal 24, Cal 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24, Q3 24, Q4 24, 1M, 2M, 3M Cal 24, Cal 25, Q2 23, Q3 23, Q4 23, Q1 24, Q2	2022	
	NAPP 6900 #% FOB Vessel	in the coal is 3%.	24, Q3 24, Q4 24, 1M, 2M, 3M Q3 22, Q4 22, Q1 23, Q2 23, Q3 23, Q4 23, Q1	2022	
	Conversion Location Swaps	The conversion of uranium into UF6, which can then be enriched and fabricated into fuel rods. A trade in the differential value of enrichment of uranium between various enrichment facilitites.	24, Q2 24 Cal 22	2006	
	Nymex Uranium Swaps	Uranium awaps are a hedging tool for producers and users of uranium, and provide a transparent forward price mechanism for the volatile uranium marketplace.	1M - 21M, Q2 24, Q3 24, Q4 24, Q1 25, Q2 25, Q3 25, Q4 25, Q1 26, Q2 26, Q3 26, Q4 26, Q1 27, Q2 27, Q3 27, Q4 27, Q1 28	2008	
Nuclear Fuels	SWU	Separative Work Unit (SWU)	Q4 22, Q1 23, Q2 23, Q3 23, Q4 23, Q1 24, Q2 24	2006	
	U308	Trades in the physical underlying commodity of uranium.	1M - 21M, Q2 24, Q3 24, Q4 24, Q1 25, Q2 25, Q3 25, Q4 25, Q1 26, Q2 26, Q3 26, Q4 26, Q1 27, Q2 27, Q3 27, Q4 27, Q1 28	2006	
	UF6	Trades in the physical product of UF6 and conversion contained in UF6.	1M - 21M, Q2 24, Q3 24, Q4 24, Q1 25, Q2 25, Q3 25, Q4 25, Q1 26, Q2 26, Q3 26, Q4 26, Q1 27, Q2 27, Q3 27, Q4 27, Q1 28	2006	
	Houston 2x16	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. Houston 2x16 refers to Houston power trades on the weekends and holidays, 16 daytime hours per day. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	Houston 7x16	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. Houston 7x16 refers to Houston power trades for the 7 days per week, 16 daytime hours per day. This is a physical	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	Houston 7x8	settlement The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. Houston 7x8 refers to Houston power trades for the 7 days per week, 8 nighttime hours per day. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	Houston ATC	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. Houston ATC refers to Around the Clock. Continuously throughout the entire day and night. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
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	Houston Peak	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. Houston Peak refers to Monday through Friday between 7 a.m. and 11 p.m., when electricity is consumed the most throughout the United States. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	Houston Wrap	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. Houston Wrap refers to off-peak trading hours. Off-peak hours go from midnight to 7 a.m. Monday-Sunday. This is a ohysical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	North 2x16	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. North Z16 refers to North Texas power trades on the weekends and holidays, 16 daytime hours per day. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	North 7x16	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. North 7x16 refers to North Texas power trades for the 7 days per week, 16 daytime hours per day. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
ERCOT	North 7x8	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. North 7X8 refers to North Texas power trades for the 7 days per week, 8 nighttime hours per day. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	North ATC	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. North ATC refers to Around the Clock. Continuously throughout the entire day and night. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	North Peak	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. North Peak refers to Monday through Friday between 7 a.m. and 11 p.m., when electricity is consumed the most throughout the United States. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	North Wrap	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. North Wrap refers to off-peak trading hours. Off-peak hours go from midnight to 7 a.m. Monday-Sunday. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	South 2x16	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and Vest. South 2x16 refers to South Texas power trades on the weekends and holidays, 16 daytime hours per day. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	South 7x16	The Electric Reliability Council of Texas (RECOT) Markets consist of 4 trading zones. Houston, North, South, and West. South 74.6 refers to South Texas power trades for the 7 days per week, 16 daytime hours per day. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	South 7x8	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. South 7/8 refers to South Texas power trades for the 7 days per week, 8 nighttime hours per day. This is a physical settlement	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	South ATC	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. South ATC refers to Around the Clock. Continuously throughout the entire day and night. This is a physical settlement The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West.	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	South Peak	The Electic Relations Council on Texas (ERCOT) markets consists on a using counces, mouston, worth, south, and versi- South Peak refers to Monday through Friday between 7 am. and 11 pm, where electricity is consumed the most throughout the United States. This is a physical settlement The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West.	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21	2018	
	South Wrap GATE	The Electric relations of Council or reads (Encor) from Reis outside of a balage counts, froution, frontin, Souri, and vess. South Wrap refers to off-peak trading hours. Off-peak hours go from midnight to 7 a.m. Monday-Sunday. This is a <u>physical settlement</u> PG&E Citypeak is a trading pipeline located outside of Sacremento in California.	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, AUG-SEPT 21 1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2018	
	AECO	Alberta Energy Company is a Hub & the Canadian benchmark price for natural gas	1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021	
	SOCAL	SOCAL Hub service territory encompasses approximately 24,000 square miles in diverse terrain throughout Central and Southern California, from Visalia to the Mexican border.	1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021	
	SCL-GCT	SoCal Citygate is a trading pipeline located in California right outside of Los Angeles.	1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021	
	MALIN ROX	Malin Hub is located in southern boarder of Oregon Gas trading pipeline in the Rockies area.	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021	
	CIG	Gas Hub located in the Rockies	1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021	
	SUMAS SAN JUAN	Sumas Hub Northwest canadian boarder located in Washington San Juan, New Mexico. Gas Hub located in New Mexico	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021 2021	
	PERM	Permian Basin Gas Hub is located in Northwest Mexico / Southwest US Gas Hub located within the Permian Basin in West Texas	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021	
	WAHA SHIP	Gas Hub located within the Permian Basin in West Texas Houston Ship Channel Hub is located north end of the Galveston Bay to the channels turning basin	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021 2021	
	TEXOK REX Z3	Gas Zone from Montgomery County, Texas to Carter County, Oklahoma Deliveries off of Rockies Express Pipeline into other pipelines in zone 3.	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021 2021	
Natural Gas Basis	PAN	Panhandle Zone Pipeline starts in Texas and goes through OK,KS, MO,IL,IN,OH,MI	1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021	
	MCO ANR OK	MCO Hub is NGPL Midcontinent is located in southwest Kansas. ANR Pipeline System Company transports Natural Gas in Oklahoma	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021 2021	
	S STAR	Southern Star Index trading pipeline includes Texas, Oklahoma and Kansas	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021	
	ENABLE	Enable Gas Transmission System Includes deliveries into six distinct pooling areas. The six Pooling Areas are the Flex or Neutral Pooling area, the North Pooling Area, the South Pooling Area, the Line CP Pooling Area. and the West Land West 2 Pooline Areas.	1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021	
	DMARC	Northern Natural Demarc Description: Deals transacted at NNG's Demarcation point, which is the pooling point that separates NNG's Into its Field and Market zones. This is pooling point/Millinge Indicator Statric (MID) point 168 as defined in NNG's Rate Schedule MPS: MID Pooling Services rate schedule. The point itself is located in Clay County, KS.	1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021	
	VENT		1 FM 11 Common 9 Ourstoon Col 22 29		
	VENT CHI	Deliveries at the Ventura pooling point on Northern Natural Gas in Hancock County, IA. Chicago Citygate Gas trading pipeline in Chicago Illinois	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021 2021	
		Chicago Citygate Gas trading pipeline in Chicago Illinois Michigan Consolidated Gas Pipeline	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28	2021 2021	
	CHI MICH	Chicago Citygate Gas trading pipeline in Chicago Illinois Michigan Consolidated Gas Pipeline Gas traded at Union Gas' Davn Hub in Davn Township, Ontario. Socal is the Southern California Gas service territory.	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23,	2021	
	CHI MICH DAWN Socal Index Futures	Chicago Citygate Gas trading pipeline in Chicago Illinois Michigan Consolidated Gas Pipeline Gas traded at Union Gas' Davn Hub in Dawn Township, Ontario. Socal is the Southern California Gas service territory. Index: KGI Southwest: Socal Gas: Midpoint	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23 1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23,	2021 2021 2021 2021	
	CHI MiCH DAWN Socal Index Futures Socal Ehrenberg Physical Index	Chicage Catygate Gas trading pipeline in Chicago Illinois Michigan Consolitated Gas Pipeline Gas traded at Union Gas' Dawn Hub in Dawn Township, Ontario. Social is the Southern California Gas service territory. Index: WiS Southern California Gas system Southern Zone via El Paso Natural Gas at Ehrenberg, CA.	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1M, ZM, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23 1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23	2021 2021 2021 2021 2021 2021	
	CH MICH DAWN Socal Index Futures Socal Ehrenberg Physical Index El Paso South Mainline Physical Index	Chicago Citygate Gas trading pipeline in Chicago Illinois Michigan Consolidated Gas Pipeline Gas traded at Urion Gas' Dawn Hub in Dawn Township, Ontario. Socal is the Southern California Reservice territory. Index: NGI Southwest: SoCal Gas: Midpoint Deliveries into the Southern California Gas system Southern Zone via El Paso Natural Gas at Ehrenberg, CA. Deliveries on El Paso's south mainline at points between Cornudas station in West Texas to but not including <i>Ehrenberg, AZ</i> .	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 11 Seasons, 9 Quarters, Cal 23-28 1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23 1M, 2M, MA, AUG-OCT 22, NOV22-MAR23, APR-OCT 23 1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23	2021 2021 2021 2021 2021 2021 2021	
	CHI MiCH DAWN Socal Index Futures Socal Ehrenberg Physical Index	Chicage Catygate Gas trading pipeline in Chicago Illinois Michigan Consolidated Gas Rpeline Gas traded at Union Gai's Dawn Hub in Dawn Township, Ontario. Socal is the Southern California Gas service territory. Index: NGI Southwest: Social Gas. Midpoint Deliveries into the Southern California Gas system Southern Zone via El Paso Natural Gas at Ehrenberg, CA. Deliveries on El Paso's cuth mainline at points between Cornudas station in West Texas to but not including Ehrenberg. AZ. Deliveries on Kern River Pipelines extending from southwestern Wyoming to Bakersfield, California.	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 2-14 Seasons, 8 Quarters, Cal 23-28 1-5M, 2-4M, 2-4	2021 2021 2021 2021 2021 2021	
	CH MICH DAWN Socal Index Futures Socal Ehrenberg Physical Index El Paso South Mainline Physical Index	Chicago Citygate Gas trading pipeline in Chicago Illinois Michigan Consolidated Gas Pipeline Gas traded at Urion Gas' Dawn Hub in Dawn Township, Ontario. Socal is the Southern California Reservice territory. Index: NGI Southwest: SoCal Gas: Midpoint Deliveries into the Southern California Gas system Southern Zone via El Paso Natural Gas at Ehrenberg, CA. Deliveries on El Paso's south mainline at points between Cornudas station in West Texas to but not including <i>Ehrenberg, AZ</i> .	1-5M, 11 Seasons, 8 Quarters, Cal 23-28 1-5M, 21 Seasons, 8 Quarters, Cal 23-28 1-5M, 21 Seasons, 8 Quarters, Cal 23-28 1-5M, 3M, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23	2021 2021 2021 2021 2021 2021 2021	
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CIG Index Futures	CIG hub is located in the Rockies.	1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23	2021	
CIG Physical Index	Deliveries into the CIG pipeline Hub located in the Rockies.	1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23	2021	
Cheyenne Physical Index	Deliveries in the Cheyenne location owned and operated by Kinder Morgan which runs from the Wyoming-Colorodo border to South Central Kansas.	1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23	2021	
Rex Compression Pool Index	Deliveries into the Rockies Express Pipeline (REX).	1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23	2021	
Rocky Mountain Pool Physical Index	Deliveries into the Rocky Mountain Pool located in the Rockies.	1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23	2021	
White River Hub Physical Index	Deliveries into the White Niver Hub located in Northwest Colorado, and is actually the combination between Enterprise's Meeker, CD Processing Plant and pipeline interconnections with Questar Pipeline, Rockies Express, TransColorado, Colorado Interstate Gas, Wyoming Interstate Company, Northwest Pipeline, and Williams Field Service's Parachute Lateral.	1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23	2021	
Wyoming Pool Physical Index	Deliveries into the Wyoming Natural Gas Hub.	1M, 2M, 3M, AUG-OCT 22, NOV22-MAR23, APR-OCT 23	2021	
Opal Physical Index	Transactions within the Kern River Fuel Zone, which includes the Hams Fork interconnect with Dominion Overthust; Muddy Cree Kompressor Station Pool and interconconcets with CiG and Northwest Pipeline; Opa Plant, Overland Trail interconnect; Pioneer Plant, Rendezvous Pipeline Plant/interconnect; Roberson Creek interconnect with Dominion Overthrust and KRGT Virtual Receipts.	Exchange & OTC	2021	
CIG Index Futures	CIG hub is located in the Rockies.	Exchange & OTC	2021	
CIG Physical Index	Deliveries into the CIG pipeline Hub located in the Rockies.	Exchange & OTC	2021	
Cheyenne Physical Index	Deliveries in the Cheyenne location owned and operated by Kinder Morgan which runs from the Wyoming-Colorodo border to South Central Kansas.	Exchange & OTC	2021	
Rex Compression Pool Index	Deliveries into the Rockies Express Pipeline (REX).	Exchange & OTC	2021	
Rocky Mountain Pool Physical Index	Deliveries into the Rocky Mountain Pool located in the Rockies.	Exchange & OTC	2021	
White River Hub Physical Index	Deliveries into the White Niver Hub Tocated in Northwest Colorado, and is actually the combination between Enterprise's Meeker, CD Processing Plant and pipeline interconnections with Questar Pipeline, Rockies Express, Transcolorado, Colorado Interstate Gas, Wyoming Interstate Company, Northwest Pipeline, and Williams Field Service's Paraclute Lateral.	Exchange & OTC	2021	
Wyoming Pool Physical Index	Deliveries into the Wyoming Natural Gas Hub.	Exchange & OTC	2021	