

DATA PRODUCT INVENTORY - Q1 2022

Market	Product Name	Product Description	Term	History	Contract Spec
Carbon	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.	1Y, 2Y, 3Y With Matching Vintages 2Y/1Y Spread	2011	1 CCA = 1 Metric 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 amended from time to time.	1Y, 2Y With Matching Vintages 2Y/1Y Spread	2008	1 RGGI = 1 Metric Tonne of CO2 Equivalent
	RGGI Spot	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. RGGI Spot refers to an OTC contract for immediate delivery.	Spot	2008	1 CCA = 1 Metric Tonne of CO2 Equivalent
	Golden CCO	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.	1M	2013	1 GCCO = 1 Metric Tonne of CO2 Equivalent
	CCO (3)	An ARB-compliant Offset under AB 32 with three (3) year invalidation borne by Buyer.	1M	2013	1 CCO = 1 Metric Tonne of CO2 Equivalent
	cco (8)	An ARB-compliant Offset under AB 32 with eight (8) year invalidation borne by Buyer. A Low Carbon Fuel Standard is a market-based system that focuses on reducing carbon intensity of fuels within California/Oregon. Part of several AB32 measures to reduce	1M	2013	1 CCO = 1 Metric Tonne of CO2 Equivalent
	LCFS	greenhouse gas emissions throughout the state. 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	Prompt Transfer, Q4 21, Q4 22		1 LCFS = 1 Metric Tonne of CO2 Equivalent
	GEO NGEO	Carbon Standard (VCS), American Carbon Registry (ACR), and Climate Action Reserve (CAR). Nature-based global emissions futures—called N-GEO futures—require delivery of a specific quantity of carbon offset credits on a future date that the seller will have earned for planting	1Y		1 LCFS = 1 Metric Tonne of CO2 Equivalent 1 LCFS = 1 Metric Tonne of CO2 Equivalent
	NGEO	trees, preserving a forest that would otherwise be cut down and similar actions.	IA	2021	Each allowance represents an authorization to emit one
US Emissions (SO2, NOx)	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	ton of emissions per allowance held in a compliance
	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 emit one ton of emissions per allowance held in a compliance 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, MI, MO, NO, RY, NY, NY, CO, HP, AS, CS, TN, TX, VA, WV, WI.	1Y	2011	Each allowance represents an authorization to emit one ton of emissions per allowance held in a compliance 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: II, IN, IA, KY, MD, MI, MO, MJ, NY, NC, OH, PA, PN, VA, WV, WI.	17		Each allowance represents an authorization to emit one ton of emissions per allowance held in a compliance period
		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			Each allowance represents an authorization to emit one
	CSAPR SO2 Group 2	states: AL, GA, KS, MN, NE, SC, TX. States can only trade SO2 allowances with states in the same group.	1Y	2011	ton of emissions per allowance held in a compliance period
	C. 100 C. 110 C.	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 trade SO2 allowances with states in the	av.	2004	Each allowance represents an authorization to emit one ton of emissions per allowance held in a compliance
	CSAPR Seasonal Nox Group 2	same group. 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	11	2011	period Each allowance represents an authorization to emit one ton of emissions per allowance held in a compliance
	Massachusetts Carbon	electricity for our lights, computers, and appliances. Sulfur Dioxide (SO ₂) Emissions allowances for use in compliance with the US EPA's Cross-	1Y	2018	period Each allowance represents an authorization to emit one
	CSAPR Seasonal NOx Group 3	State Air Pollution Rule. Group 3 allowances are allocated to sources located in Group 3 states: IL, IN, LA, MD, MI, NJ, NY, OH, PA, VA, WV. Kenewable Energy Credits (RECS) represent the environmental attributes or one megawatt-	1Y		ton of emissions per allowance held in a compliance period
		hour of electricity generated from a qualifying Class I renewable generator under the Connecticut Renewable Portfolio Standard (RPS). CT Class I RECs may be traded and used to meet CT Class I RPS obligations during the compliance period, which begins Ian 1 and ends Dec. 31 of each vintage year. The CT RPS has multiple classes of renewables depending on			
RECs	CT Class I REC	generation type. Class I includes such resources as wind, landfill qualifying biomass and others.	1Y, 2Y, 3Y, 4Y, 5Y	2008	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
		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 RECs may be traded and used to meet CT Class I RPS obligations 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			1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	CT Class II REC	generation type. Class II includes such resources as municipal solid waste and small hydro. Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt- hour of electricity generated from a qualifying Class III renewable generator under the Connecticut 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 virtage year. The CT RPS has multiple classes of nenewables depending on	1Y, 2Y	2008	generated from 1 renewable energy resource.
	CT Class III REC	generation type. Class III includes such resources as energy efficiency projects and cogeneration applications.	1Y, 2Y, 3Y	2008	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	DC Solar REC	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt- hour of electricity generated from a qualifying Solar renewable generator under the District of Columbia 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 vintage year. The DC RPS has multiple classes of renewables depending on	2021, 1Y, 2Y, 3Y, 4Y	2000	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	C Solai NEC	generation type. The Solar class includes solar PV generating sources. Renewate: Entergy Letons (text): prepresent time embronmenta autronues or one megawatt- hour of electricity generated from a qualifying Tier I renewable generator under the District of Columbia Renewable Portfolio Standard (RPS). DC Tier I RECs may be traded and used to meet DC Tier I RPS obligations during the compilance 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, Jandfill qualifying biomass and	2023, 11, 21, 31, 41	2003	1 REC = 1 megawatt-hour (MWh) of electricity
	DC Tier 1 REC	others. Green-e certified renewable energy must be generated from new facilities that meet	2021, 1Y, 2Y, 3Y, 4Y, 5Y	2008	generated from 1 renewable energy resource.
	Green-e Certifiable National Wind REC	rigorous standards for environmental quality. The ultimate owner of the Green-e Wind REC owns the amount of wind generated.	1Y, 2Y, 3Y, 4Y, 5Y, 6Y, 7Y, 8Y	2015	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	Green-e Certifiable Texas Wind REC	Green-e certified renewable energy must be generated from new facilities that meet rigorous standards for environmental quality. The ultimate owner of the Green-e Texas Wind REC owns the amount of wind generated exclusively in the state of Texas. The Massachusetts Alternative Energy Portfolio Standard is a mandatory market-based	1Y, 2Y, 3Y, 4Y, 5Y, 6Y, 7Y, 8Y	2008	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	MA APS	The Massachusetts 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 sold to electricity suppliers.	1Y, 2Y, 3Y, 4Y, 5Y	2009	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
	MA CES	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	17, 27, 37	2003	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
		owner would acquire Clean Energy Credits (CECs) or make alternative compliance payment. The Massachusetts Clean Energy Standard sets a minimum percentage of electricity sales the utilities and retail electricity suppliers must procure from clean energy sources for existing resources. The ultimate owner would acquire Clean Energy Credits (CECs) or make			1 REC = 1 megawatt-hour (MWh) of electricity
	MA CES-E	alternative compliance payment.	1Y, 2Y, 3Y		generated from 1 renewable energy resource.

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Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt- hour of electricity generated from a qualifying Class III renewable generator under the Nev temperature Renewable of perforbio Standard (RPS), Not Class IREC, may be traced and used risk Dec. 31 of each wintage year. The NI RPS has multiple classes of renewables depending on generation type. Class III includes such resources as energy efficiency projects and ogeneration applications. Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt- hour of electricity generated from a qualifying Class IV renewable generator under the Nev meet NI Class IV RPS obligations during the compliance period, which begins Ian. 1 and ends begins and the period ends. Calendar Year 2007 is defined as the compliance period of January 1, 2007 through December 31, 2007 is defined as the compliance period of January 1, 2007 through December 31, 2007 is NI Class IREC Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt- hour of electricity generated from a qualifying Class IV renewable such resources as existing hydro. Renewable Shertify Credits (RECs) represent the environmental attributes of nem engawatt- hour of electricity generated from a qualifying Class IV renewable on the Nev zersy Renewable Portfolio Standard (RPS). NI Class IREC may be tracked and used to meet NI Class IRPS obligations during the compliance period of Mine 1, 2006 through May 31, 2007. The NI RPS has multiple classes of renewables depending on generated from a qualifying Class is renewable generator under the Nev zersy Renewable Portfolio Standard (RPS). NI Class IREC may be tracked and used to meet NI Class IRPS obligations during the compliance period which legins Jan. 1 and ends May, 31 of each virtage year (for clarity NI'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.			hour of electricity generated from a qualifying Class II renewable generator under the New Hampshire Renewable Portfolio Standard (RPS). NH Class II RECs may be traded and used to neet NH Class II RPS obligations during the compiliance 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 Year 2007 is defined as the compiliance period of January 1, 2007 through December 31, 2007). The NH RPS has multiple		
meet NH Class III PS obligations during the compliance period, which begins Jan. 1 and ends Dec. 31 of each virtage year. The NH PS has multiple classified on pageneration type. Class III includes such resources as energy efficiency projects and copyright of the project of Jan. 2005 generated from 1 renewable energy resource. Renewable Energy Credits (RECs) represent the environmental attributes of one megawatthour of electricity generated from a qualifying Class IV renewable generator under the New Hempshire Renewable Portfolio Standard (RPS), NH Class IV in the Class IV renewable generator under the New Hempshire Renewable Portfolio Standard (RPS), NH Class IV received by the Class IV renewable generator under the New Hempshire Renewable Portfolio Standard (RPS), NH Class IV received by the Class IV renewable generator under the New Hempshire Renewable of Standard (RPS), NH Class IV received by the Class	NH	H Class II	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt- hour of electricity generated from a qualifying Class III renewable generator under the New	1Y 200	9 generated from 1 renewable energy resource.
Renewable Energy Credits (RECs) represent the environmental attributes of one megawatthour of electricity generated from a qualifying class IV renewable perarotion under the New Hampshire Renewable Portfolio Standard (RPs.). NI NI class IV RECs may be traded and used to meet NI class IV Become and the properties of a calendar year basis which is quoted as the year in which the period of January 1, 2007 through Deors and 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 Deors 1, 2007. The NI RPS has multiple classes of renewables depending on generation type. Class IV includes such resources as existing hydro. NH Class IV Renewable Energy Credits (RECs) represent the environmental attributes of one megawatthour of electricity generated from a qualifying class I renewable generator under the New Jersey Renewable Portfolio Standard (RPS.) NL Class I RECs may be traded and used to meet NI Class I RPS obligations during the compliance period, which begins Jun. 1 and ends May, 31 of each vintage year (for class) responsible of the period of Junuary 1, 2008 through May 31, 2007. The NI RPS has multiple classes of renewables depending on generation type. Class I includes such resources as wind, landfill qualifying blomass and others. Renewable Energy Credits (RECs) represent the environmental attributes of one megawatthour of electricity generated from a qualifying class in renewable generator under the New Jersey Renewable Portfolio Standard (RPS.) NL Class I RECs may be traded and used to meet NI Class II RPS obligations during the compliance period of Junu 1, 2008 through May 31, 2007. The NR PS has multiple classes of renewables depending on generated from a qualifying class in renewable generator under the New Jersey Renewable Portfolio Standard (RPS.) NL Class II RECs may be traded and used to meet NI Class II RPS obligations during the compliance period of Junu 1, 2008 through May 31, 2007. The NR PS h			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 as energy efficiency projects and		
hour of electricity generated from a qualifying Class IV renewable generator under the New Hampshire Renewable Portfolio Standard (RPS). NH Class IV REC so bligations during the compliance period, which begins Jan. 1 and ends Dec 31 of each vintage year (for clarity NF) sprogram is on a reporting 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). The NH RPS has multiple classes of renewables depending on generation type. Class IV includes such resources as with the period ends. Calendar Year 2007 is defined as the compliance period, which begins Jan. 1 and ends May. 31 of each vintage year (for clarity NF) sprogram 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 January (Feb.) Includes such resources as with the period of Standard (RPS). NJ Class IRECs may be traded and used to meet NJ Class IREC with the period of such as the compliance period of January (Feb.) Includes such resources as with classes of renewables depending on generation type. Class i includes such resources as with classes of renewables depending on generation type. Class i includes such resources as with classes of renewables depending on generation type. Class i includes such resources as with classes of renewables depending on generation type. Class i includes such resources as with classes of renewables depending on generation type. Class i includes such resources as with classes of renewables depending on generation type. Class i includes such resources as with classes of renewables depending on generation type. Class i includes such resources as with classes of renewables depending on generation type. Class i includes such resources as with classes of renewables depending on generation type. Class includes such resources as with classes of renewables depending on generation type. Class includes such resources as with classes of re	NH	H Class III		1Y, 2Y 200	9 generated from 1 renewable energy resource.
hour of electricity generated from a qualifying Class I renewable generator under the New Jersey Renewable Portfolo Standard (RPS), N Class I REC may be traded and used to meet N Class 1 RPS obligations during the compliance period, which begins Jun. 1 and ends May. 31 of each vintage year (for clarity NT) sprogram is on a reporting year basis which is quoted as the year in which the period ends. 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 N RPS has multiple classes of renewables depending on generation type. Class I includes such resources as wind, landfill qualifying blomass and others. N Class I REC N Class I REC Renewable Energy Credits (RECs) represent the environmental attributes of one megawath-hour of electricity generated from a qualifying Class II renewable generator under the New Jersey Renewable portfolio Standard (RPS), N Class II RECs may be traded and used to meet N Class II RPS obligations during the compliance period, which begins Jun. 1 and ends May. 31 of each vintage year (for clarity NT)'s program is on a reporting year abasis 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. He NBPS has multiple classes of renewables	NH	t Class IV	hour of electricity generated from a qualifying Class IV renewable generator under the New Hampshire Renewable Portfolio Standard (RPS). Alt (Class N ERCs may be traded and used to meet NH Class IV RPS 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 clendar 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). The NH RPS has multiple classes of renewables depending on generation type. Class IV includes such resources as		
depending on generation type. Class I includes such resources as wind, landfill qualifying biomass and others. Renewable Energy Credits (RECs) represent the environmental attributes of one megawatthour of electricity generated from a qualifying Class II renewable generator under the New Jersey Renewable Portfolio Standard (RPS). NJ Class II RECs may be traded and used to meet NJ Class IR RPS obligations furing the compliancing du, which begins Jun. 1 and ends May. 31 of each wintage year (for clarity NT'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 NJ RPS has multiple classes of renewables			hour of electricity generated from a qualifying Class I renewable generator under the New Jersey Renewable Portfolio Standard (RPS). NI Class IREC may be traded and used to meet NI Class 1 RPS obligations during the compliance period, which begins Jun. 1 and ends May, 31 of each vintage year (for clarity NI'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		
Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt- hour of electricity generated from a qualifying Class II renewable generator under the New Jersey 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 vintage year (for clarity NT)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 NJ RPS has multiple classes of renewables		Class LBEC	depending on generation type. Class I includes such resources as wind, landfill qualifying		
	NO.	Cuass I nec	Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt- hour of electricity generated from a qualifying Class II renewable generator under the New Jersey Benewable Portfolio Standard (RPS). NI Class II RECs may be traded and used to meet NI Class II RPS obligations during the compliance period, which begins Jun. 1 and ends May. 31 of each vintage year (for clarity NI'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		s generated from a renewable energy resource.
			depending on generation type. Class II includes such resources as municipal solid waste and		1 REC = 1 megawatt-hour (MWh) of electricity
NJ Class II REC small hydro. Renewable Energy Credits (RECs) represent the environmental attributes of one megawatth hour of electricity generated from a qualifying solar renewable generator under the New Jersey Renewable Portfolio Standard (RPS). NJ Class Solar RECs (SRECs) may be traded and used to meet NJ SREC RPS colliplations during thus humber to the Name of the Name	NJ:	Class II REC	small hydro. Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-hour of electricity generated from a qualifying solar renewable generator under the New Jersey Renewable 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 clarity NJ'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 NJ RPS has multiple classes of		88 generated from 1 renewable energy resource.
renewables depending on generation type. The Solar Class includes solar PV generating 1 REC = 1 megawatt-hour (MWh) of electricity	MI	Solar REC			1 REC = 1 megawatt-hour (MWh) of electricity 08 generated from 1 renewable energy resource.

		NY Tier I RECs may be traded and used to meet NY Tier I RPS obligations during the		
		compliance period, which begins Jan. 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		1 REC = 1 megawatt-hour (MWh) of electricity
	NY Tier I REC	have been newly generated and come from the cleanest renewable resources. 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	2021, 1Y	generated from 1 renewable energy resource.
	OH Non Solar REC	obligated entities to meet their obligation for purchases from renewable energy sources that do not involve solar.	2021, 1Y, 2Y, 3Y, 4Y	1 REC = 1 megawatt-hour (MWh) of electricity 2014 generated from 1 renewable energy resource.
		Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt- hour of electricity generated from a qualifying solar renewable 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. 1 and ends May. 3 of each wintage 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. The Solar Cass includes solar PV generating		1 REC = 1 megawatt-hour (MWh) of electricity
	PA Solar REC	sources. Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-	2021, 1Y, 2Y, 3Y, 4Y, 5Y	2008 generated from 1 renewable energy resource.
		hour of electricity generated from a qualifying Tier I renewable generator under the Pennsylvania Renewable Portfolio Standard (RPS). PA TIEr I RECs may be traded and used to meet PA Tier RFS 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 I includes such resources as wind, landfill		1 REC = 1 megawatt-hour (MWh) of electricity
	PA Tier 1 REC	qualifying biomass and others. Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-	2021, 1Y, 2Y, 3Y, 4Y, 5Y	2008 generated from 1 renewable energy resource.
		hour of electricity generated from a qualifying Tier II renewable generator under the Pennsylvania Renewable Portfolio Standard (RPS). 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 2001 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		1 REC = 1 megawatt-hour (MWh) of electricity
	PA Tier 2 REC	waste, waste coal generation and small hydro. Class 1 Renewable Energy Certificates, Tier 1 Renewable Energy Credits and Tier 1 Alternative	2021, 1Y, 2Y, 3Y, 4Y	2008 generated from 1 renewable energy resource.
		Energy Credits. Where a Class I REC is an electronic certificate issued by the PJM Environmental Information System Generation Attribute Tracking System (PJM GATS) for generation in the Pennsylvania, New Jersey, and Maryland renewable portfolio standard		1 REC = 1 megawatt-hour (MWh) of electricity
	PJM TRI Qualified REC (NJ1/PA1/MD1)	programs.	2021, 1Y, 2Y, 3Y, 4Y, 5Y, 6Y	2014 generated from 1 renewable energy resource.
		Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt- hour of electricity generated from a qualifying enewable generator under the Rhode Island Renewable Portfolio Standard (RPS), RI RECs may be traded and used to meet RPS obligations during the compliance period, which begins Jan. 1 and ends Dec. 31 of each virtage year. Eligible generation includes solar, wind, geothermal, tidal, ocean, small		1 REC = 1 megawatt-hour (MWh) of electricity
	RI "Existing" REC	hydroelectric, qualifying biomass, and fuel cells powered by renewable sources. Pre 97 Renewable Energy Credits (RECs) represent the environmental attributes of one megawatt-	1Y, 2Y, 3Y	2009 generated from 1 renewable energy resource.
	RI "NEW" REC	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 RPS obligations during the compilance period, which begins Jan. 1 and ends Dec. 31 of each vintage year. Eligible generation includes solar, wind, geothermal, tidal, ocean, small hydroelectric, qualifying biomass, and fuel cells gowered by renewable sources. Post 97	1Y, 2Y, 3Y, 4Y, 5Y	1 REC = 1 megawatt-hour (MWh) of electricity 2009 generated from 1 renewable energy resource.
		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 (RB). TA RECs may be traded and used to meet RPS obligations during the compliance period, which begins Jan. 1 and ends Dec. 31 of each		2000 Renerated Holin & Telewadae energy resource.
	TX Solar	vintage year and can be banked for use in three successive compliance years. 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	1Y, 2Y, 3Y, 4Y, 5Y	
	Virginia REC (Non Solar)	obligated entities to meet their obligation for purchases from renewable energy sources that	2021, 1Y, 2Y	1 REC = 1 megawatt-hour (MWh) of electricity generated from 1 renewable energy resource.
Coal	C5X -1%	Origin: CSX sariawina anotor big Sanoty Freight Districts; CONTRICE 1822: Office Trains of approximately 41,000 tons; Biv 12,500 Btulyli, with rejection below 12,000 Btulylib.; MOISTURE: 7% typical; ASH: 12.0% with rejection above 13.5%; SO2: reject above 1.2 lbs. SO2 (compliance coal); reject above 1% sulfur (-1% sulfur); HGI: 42-45 typical, reject below 49; VOLATILE MATTER: Minimum 30%; SIZINE; 2° N° with maximum 55% below 1/4°; INITIAL FUSION TEMP: 2,600 AFT typical; BTU ADJUSTMENT (\$/ton): Price x ((Actual Btu/lb-12,500)/12,500); DELIVERY POINT: FOB Railcar, mine, capable of loading 10,000 ton trains on after or the complex process.	Cal 22, Cal 23, Cal 24, Q4 21, Q1 22, Q2 22, Sep 21, Q3 22, 1M, 2M, 3M, Q4 22	2001
		Financially settled CSX -1% contract. Contract size: 1,000 tons. Settle monthly against the	Cal 22, Cal 23, Cal 24, Q4 21, Q1 22, Q2 22, Sep 21, Q3 22, 1M,	
	CSX -1% FS	corresponding Platts OTC Broker Index. ONDIN: N. S. Reinwa anu/or Intexet Ity Treignt Districts, CONTROCT 312E-Unit Trains of approximately 10,000 tons; BTU: 12,500 Btu/lb. with rejection below 12,200 Btu/lb. WINISTURE: 75 Vitylorial, SAH: 1206 with rejection above 1.3 %; SOZ reject above 1.2 lbs. SOZ (compliance coal); reject above 1.8 sulfur (-1% sulfur); HGI: 42-45 typical, reject below 40, VOLATILE MATTER Minimum 30%; SIZING: 2" x0" with maximum 55% below 14"; NITIAL FUSION TEMP: 2,600 ATT typical; BTU ADJUSTMENT (5/ton); Price x (factual Btu/lb-12,500); DELIVERY POINT: FOR Railcar, mine, capable of loading 10,000 ton trains on 4hrs or less.	2M, 3M, Q4 22 Cal 22, Cal 23, Cal 24, Q4 21, Sep 21, Q1 22, 1M, 2M, 3M, Q2 22, Q3 22, Q4 22	2004
	NYMEX	ORIGIN: Central Appalachia; CONTRACT SIZE: 5 barges of 1,550 tons per month (7750 tons); BTU: 12,000 (as received) analysis tolerance of 250 btu/lb. below; ASH: 13.5% maximum (as received); SULFUR: 1.0% maximum with analysis tolerance of 0.05% above; MOISTURE: 10% maximum; OVALTILE MATTER: Minimum 30 with no analysis tolerance; HCI withimum 41 with three points analysis tolerance below; SIZING: Three inches topsize, nominal, with max. 55% passing one-quarter-inch-square sieve; DELUTERY: FOB Buyer's barge on the Ohio River betw., MP 306 and 317 or on the Big Sandy River. Sellers delivering Big Sandy shall receive a 5.000 per mmBtu discount; DELUTERY PERIOD: Delivery must conclude before last calendar day of the delivery month; PRICE ADJUSTMENT: Btu: Price * (Rickall situ/lb:-1.2000)12,000)	Cal 22, Cal 23, Cal 24, Q4 21, Sep 21, 1M, 2M, 3M, Q1 22, Q2 22, 03 22, Q4 22	2000
	NVMEY FC	Financially settled NYMEX contract. Contract size: 1,550 tons. Settle monthly against the	Cal 22, Cal 23, Cal 24, Q4 21, Sep 21, 1M, 2M, 3M, Q1 22, Q2 22,	2006
	NYMEX FS PRBS800	CORRESPONDING Platts OTC Broker index. ORIGIN: Southern Powder River Basin excluding Jacobs Ranch; CONTRACT SIZE: Unit Trains of approximately 15,000 tons; BTU: 8,800 Btu/lb. with rejection below 8,600 Btu/lb.; MOISTURE: 27% with no rejection limit above; ASH: 5.5% with no rejection limit above; SO2: BOILS: SO2/mmBtu with reject above 1.2 lbs. SO2; SODIUM: 15.5% with no rejection limits; BTU ADIUSTMENT (5/ton): Price x ((Actual Btu/lb-8,800)/8,800); SO2 ADIUSTMENT (5/ton): ((,80lbs SO2/mmBtu-Actual Btu/lb-3,800)/8,800); SO2 ADIUSTMENT (5/ton): DELIVERY POINT: FOB Railcar, mine, jointly served by both UP and BN railroads	Q3 22, Q4 22 Cal 22, Cal 23, Cal 24, Q4 21, Sep 21, 1M, 2M, 3M, Q1 22, Q2 22, Q3 22, Q4 22 Cal 22, Cal 23, Cal 24, Q4 21, Sep	2006
	PRB8800 FS	Financially settled PRB 8800 contract. Contract size: 1,000 tons. Settle monthly against the corresponding Platts OTC Broker index	21, 1M, 2M, 3M, Q1 22, Q2 22, Q3 22, Q4 22	2004
		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; ASH: 6.5% with no rejection limit above; SOZ: 80 lbs. SOZ/mmBtu with reject above 1.2 lbs. SOZ; SODIUM: 1.5% with no rejection limits; BTU ADJUSTMENT: (5/ton) Price x ((Actual Btu/lb-8,400)/8,400); SOZ ADJUSTMENT (5/ton): ((280bs SOZ/mmBtu-Actual Btu/lb-4,400)/8,400); SOZ ADJUSTMENT (5/ton): ((280bs SOZ/mmBtu-Actual Btu/lb-4,400)/8,400); SOZ ADJUSTMENT (5/ton): (280bs SOZ/mmBtu-Actual Btu/lb-4,40a) sOZ (260b)/1,000,000;		
	PRB8400	DELIVERY POINT: FOB Railcar, mine, jointly served by both UP and BN railroads	Q3 22, Q4 22	2000

Company Comp						
Variety 10 Var			ORIGIN:Illinois Basin CME; BTU: 11,500 btu/lb standard gross calorific value, 11,100 btu/lb			
### 1985 1.5 miles 1.5 mil						
March Company Compan						
Process Proc						
1.73 1.73						
Column C				Cal 22, Cal 23, Cal 24, Q4 21, Sep		
Part			inch square wire cloth sieve to be determined basis the primary cutter of the mechanical			
April Apri		ILB 11500 3.0%		Q3 22, Q4 22	2017	
Company Comp						
Application Company						
1,000 1,00			14.00% (A.S.T.M. D3302); VOLATILE MATTER: Minimum: 30.00%(A.S.T.M. D3175);			
Control Cont						
10 10 10 10 10 10 10 10			SIZING: Three inches topsize, nominal, with maximum fifty five percent passing one quarter			
Company		HP 11900 F 09/			2018	
Automatical Content of the Content		ILB 11800 5.0%		Q3 22, Q4 22	2018	
March Marc						
Comparison Com			12.00% (A.S.T.M. D3174); SULFUR:Maximum 3% (A.S.T.M. D4239); MOISTURE: Maximum			
Company Comp						
March 2014 March 2015 March 2014 Mar						
March 1.00			measured by initial deformation temperature (IDT), reducing atmosphere (A.S.T.M. D1857);			
Micros Part						
Marche March Mar		ILB FOB NOLA 6000 3.0%	sampling system. (A.S.T.M. D4749);	Q3 22, Q4 22	2018	
Anten 1	Nuclear Frield		The conversion of uranium into UF6, which can then be enriched and fabricated into fuel	Q3 21, Q4 21, Q1 22, Q2 22, Q3		
Section Sect	Nuclear Fuels	Conversion		22, Q4 22, Q1 23, Q2 23	2006	
A Col 24 of 23 ft by 10 ft b		Location Swaps		Cal 21	2009	
March 1997						
25 April 20						
20, 00, 22, 00, 24, 00, 25,						
Section 19 Sec				22, Jun 22, Q2 26, Jul 22, Aug 22,		
Impact Contract Toward Transport forward price mechanism for the odded scansors marketigles. May 12 (177) pag 94 (May 21 (177) pa			Heanium cuans are a hadring tool for producers and users of userium and according			
1970 Securitive Work Line (1970) 1970		Nymex Uranium Swaps		Mar 23, Q1 27, Apr 23, May 23	2008	<u> </u>
Security Work Select (WW) Separation Work Se				Q4 21, Q1 22, Q2 22, Q3 22, Q4		
2.7. (2.7. A) 4.7. A) 5.0 A) 5.0 B) 5		SWU	Separative Work Unit (SWU)		2006	
ACC 13 At 12 St. po 27, CH						
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1,2,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1						
100 100						
Tride in the photical underlying commodity of unatum Society 2, 04 Kg, 10 27 64 27, 10 3 Kg, 10 3 Kg, 10 27 64 27, 10 3 Kg, 1						
22, 22, 23, 20, 23, 20, 23, 20, 20, 20, 20, 20, 20, 20, 20, 20, 20				Dec 22, Q4 26, Jan 23 Feb 23,		
No. 1, 20, 10, 10, 10, 10, 10, 10, 10, 10, 10, 1		U308	Trades in the physical underlying commodity of uranium.		2006	
March Marc						
2						
Section Part						
1966 Tables in the ghybridal product of Life and convertain contained in Life.						
WE Trade is the behavior product of the and conversion contained in UFE Not Electric Reliability Councer of Teas (ERCOT) Markets comos of 4 trading zones. Houston, 12 Sept. 12 S						
Month Mont		UF6	Trades in the physical product of UF6 and conversion contained in UF6.		2006	
Microst Microsta Microst Microsta Micro				Cal 22, Cal 23, Cal 24, Cal 25, Cal		
North 7x8	ERCOT	Houston 2x16	holidays, 16 daytime hours per day.		2021	
Mouston 7x16				Cal 22 Cal 23 Cal 24 Cal 25 Cal		
Nouthon 748 week, 8 inglithme hours per day Call 22, Call 23, Call 24, Call 25, Call 24, Call 25, Call 24, Call 25, Call 26, Call 27, Call 28, Call 25, Call 28, Call 28		Houston 7x16	week, 16 daytime hours per day.		2021	
Noutron 78				Cal 22, Cal 23, Cal 24, Cal 25, Cal		
The Electric Reliability Council of Teas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. And refers to Nording through Fridge Species (ed. 27, Cal 23, Cal 24, Cal 25, Cal 22, Cal 23, Cal 24, Cal 25, Cal 24, Cal 25, Cal 25, Cal 25, Cal 26, Cal 27, Cal 28, Oct. Pec. 21		Houston 7x8	week, 8 nighttime hours per day.		2021	
Mouston ATC				Cal 22, Cal 23, Cal 24, Cal 25, Cal		
North, South, and West. Houston Peak 13 pm, when electricity is consumed the most throughout the United States. 22, (2 a) 23, (a) 125, (a) 12, (a) 25, (a) 12, (a) 28, (a) 28, (a) 29, (Houston ATC			2021	
North, South, and West. Houston Peak 13 pm, when electricity is consumed the most throughout the United States. 22, (2 a) 23, (a) 125, (a) 12, (a) 25, (a) 12, (a) 28, (a) 28, (a) 29, (The Electric Reliability Council of Texas (FRCOT) Markets consist of 4 trading zones. Houston			
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North, South, and West. Houston Wrap refers to off-peak trading hours. Off-peak hours go form midnight to 7 a.m. Monday-Sunday. Winter 22, Spring 22, May 22, Jun 22, Summer 22, Sep 22, Od The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. North 7s. 16 dayrime hours per day. North 7x16 North 7x1		Houston Peak		26, Cal 27, Cal 28, Oct-Dec 21	2021	
Mouston Wrap from midright to 7 a.m. Monday-Sunday. 56, Gal 72, Cal 28, Oct-Dec 21 2021				Cal 22, Cal 23, Cal 24, Cal 25, Cal		
The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. North 2x16 and holidays, 16 daytime hours per day. North 2x16 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 day. 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 day. 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 day. North 7x8 North 7x8 North 7x8 North 7x8 North 7x8 The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, Aug. (22, Cal 2x,		Houston Wrap	from midnight to 7 a.m. Monday-Sunday.	26, Cal 27, Cal 28, Oct-Dec 21	2021	
The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North 2x16 North 2x16 North 2x16 North 2x16 North 2x16 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 North 7x16 North 3x16 Nor						
North 2x16 and holidays, 16 daytime hours per day. 3M, Oct-Dec 21 2021				22, Cal 22, Cal 23, Cal 24, Cal 25,		
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. North 7x16 **Refers** 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. **North 7x8** Week, 8 nighttime hours per day.** **North 7x8** Symmer 23, 5ep 22, 04 22, 24		North 2v16			2024	
The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, 200, 200, 200, 200, 200, 200, 200, 20			ELECTION OF THE HOUSE PET UNIV.		2021	
North 7x16 North			The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston			
North 7x16 week, 16 daytime hours per day. Amount						
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 veek, 8 nighttime hours per day. Winter 22, pring 22, May 22, Jun 22, Summer 23, Sep 22, Q4 22, Winter 23, Spring 23, May 23, Jun 23, Summer 23, Sep 23, Q4 22, Winter 23, Spring 23, May 23, Jun 24, Summer 24, Sep 24, Q4 24, Cal 22, Cal 23, Cal 23, Cal 24, Q4 24, Cal 22, Cal 23, Cal 24, Q4 25, Winter 24, Spring 25, May 25, Jun 25, Summer 26, Sep 26, Q4 25, Cal 25, C		North 7x16		3M, Oct-Dec 21	2021	
The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, North 7x8 (ERCOT) Markets consist of 4 trading zones. Houston, North, 22, Cal 22, Cal 23, Cal 24, Cal 25, Cal 27, Cal 28, Cal 28, Cal 28, Cal 27, Cal 28, Cal 28, Cal 28, Cal 27, Cal 28, Cal 28						
North 7x8 week, 8 nighttime hours per day. 3M, Oct-Dec 21 Whiter 22, Spring 22, May 22, Jun 22, Summer 23, Sep 22, Q4 22, Winter 23, Spring 23, May 23, Jun 23, Summer 23, Sep 23, Q4 23, Winter 24, Spring 24, May 24, Jun 24, Summer 24, Sep 24, Q4 24, Cal 22, Cal 23, Cal 24, Winter 24, Spring 24, May 24, Jun 24, Summer 26, Sep 26, Q4 26, Cal 22, Cal 23, Cal 24, Winter 25, Spring 25, May 25, Jun 25, Summer 26, Sep 26, Q4 26, Cal 25, Cal 25, Cal 27, Winter 28, Spring 28, May 28, Jun 25, Summer 26, Sep 26, Q4 26, Cal 25, Cal 27, Winter 28, Spring 28, May 28, Jun 26, Summer 28, Sep 29, Q4 28, Cal 25, Cal 27, Winter 28, Spring 28, May 28, Jun 26, Summer 28, Sep 29, Q4 28, Cal 28, May 28, Jun 28, Summer 28, Sep 29, Q4 28, Cal 28, May 28, Jun 28, Summer 28, Sep 29, Q4 28, Cal 28, May 28, Jun 28, Summer 28, Sep 29, Q4 29, Cal 25, Cal 27, Winter 28, Spring 28, May 28, Jun 28, Summer 28, Sep 29, Q4 29, Cal 28, Jun 28, May Q4, Jun 29, Summer 28, Sep 29, Q4 29, Cal 28, Jun 28, May Q4, Jun 29, Summer 29, Sep 29, Q4 29, Cal 28, Jun 28, May Q4, Jun 29, Summer 29, Sep 29, Q4 29, Cal 28, Cal 28, Jun 28, May Q4, Jun 29, Summer 29, Sep 29, Q4 29, Cal 28, Cal 28, Jun 28, Jun 28, Jun 28, Jun 28, Summer 29, Sep 29, Q4 29, Cal 28, Cal 28, Jun 28, Ju				22, Cal 22, Cal 23, Cal 24, Cal 25,		
Winter 22, Spring 23, May 22,		North 7x8			2021	
22, Winter 23, Spring 23, May 23, Jun 23, Summer 23, Sep 23, Q4 23, Winter 24, Spring 24, May 24, Jun 24, Summer 24, Sep 24, Q4 24, Q4 212, Cal 23, Cal 22, Cal 23, Cal 24, Winter 25, Spring 25, May 25, Jun 25, Summer 25, Sep 25, Q4 25, Winter 26, Spring 26, May 26, Jun 26, Summer 26, Sep 26, Q4 25, Cal 25, Cal 26, Cal 27, Winter 28, Spring 29, May 28, Jun 28, Summer 28, Sep 28, Q4 28, Summer 28, Sep 28, Q4 28, Summer 28, Sep 28, Q4 28, Cal 28, May 38, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, May 38, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, May 38, Oct-Dec 21, Winter 27, Spring 27, May North, South, and West. North ATC refers to Around the Clock. Continuously throughout the 27, Jun 27, Summer 27, Sep 27,		1501 11 7 AU	sees, o rigitaine nous per day.	Winter 22, Spring 22, May 22,	2021	
23, Jun 23, Summer 23, Sep 23, Q4 23, Winter 24, Spring 24, May 24, Jun 24, Summer 24, Sep 24, Q4 24, Cal 22, Cal 23, Cal 24, Winter 25, Spring 25, May 25, Jun 25, Summer 25, Sep 25, Q4 25, Winter 26, Spring 26, May 26, Jun 26, Summer 26, Sep 26, Q4 27, Winter 28, Spring 28, May 28, Jun 28, Summer 28, Sep 28, Q4 29, Jun 26, Summer 28, Sep 28, Q4 20, Jun 26, Summer 28, Sep 28, Q4 20, Jun 28, Summer 28, Sep 28, Q4 21, Winter 20, Spring 27, Way 22, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Jun, Jun, Jun, Oct-Dec 21, Winter 22, Spring 27, May 32, Way 34, Way 35, Way 36, Way 37, Way 38, Way 39, Way 30, Way 30, Way 30, Way 31, Way 32, Way 32, Way 33, Way 34, Way 34, Way 35, Way 36, Way 37, Way 38, Way 39, Way 39, Way 39, Way 30, Way						
Q4 23, Winter 24, Spring 24, May 24, Jun 24, Summer 24, Sep 24, Q4 24, Cal 22, Cal 23, Cal 24, Winter 25, Spring 25, May 25, Jun 25, Summer 25, Sep 25, Q4 25, Winter 26, Spring 26, May 26, Jun 26, Summer 26, Sep 25, Q4 25, Cal 25, Cal 26, Cal 27, Winter 28, Spring 26, May 26, Jun 26, Summer 26, Sep 26, Q4 26, Cal 25, Cal 26, Cal 27, Winter 28, Spring 28, May 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 27, Vinter 27, Sep 28, Q4 28, Cal 27, Vinter 27, Sep 27, Vinter 27, Sep 27, Vinter 27, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun 28, Summer 28, Sep 28, Q4 29, Cal 28, Jun						
Q4 24, Cal 22, Cal 23, Cal 24, Winter 25, Spring 25, May 25, Jun 25, Summer 25, Sep 25, Q4 25, Winter 26, Spring 26, May 26, Jun 26, Summer 26, Sep 26, Q4 26, Cal 25, Cal 26, Cal 27, Winter 28, Spring 26, May 26, Jun 26, Summer 28, Sep 26, Q4 26, Cal 25, Cal 26, Cal 27, Winter 28, Spring 28, May 28, Jun 28, Summer 28, Sep 28, Q4 28, Jun 28, Summer 28, Sep 28, Q4 28, Q4 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 27, Winter 28, Spring 27, May North, South, and West. North ATC refers to Around the Clock. Continuously throughout the 27, Jun 27, Summer 27, Sep 27,				Q4 23, Winter 24, Spring 24, May		
Winter 25, Spring 25, May 25, Jun 25, Summer 25, Sep 25, Q4 25, Winter 26, Spring 26, May 26, Jun 26, Summer 26, Sep 26, Q4 26, Cal 27, Winter 28, Spring 28, May 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, May 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, May 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, 1M, 2M, 3M, Oct-Dec 21, Winter 27, Spring 27, May North, South, and West. North ATC refers to Around the Clock. Continuously throughout the 27, Jun 27, Summer 27, Sep 27,						
Jun 25, Summer 25, Sep 25, C4 25, Winter 26, Spring 28, May 26, Jun 26, Summer 26, Sep 26, Q4 26, Cal 25, Cal 25, Cal 26, Cal 25, Cal 26, Cal 27, Winter 28, Spring 28, May 28, Jun 28, Summer 28, Sep 29, C4 28, Cal 28, Spring 28, May 28, Jun 28, Summer 28, Sep 29, C4 28, Cal 28, Jun 28, Summer 28, Sep 29, C4 29, Cal 28, Jun 28, May 28, Jun 28, Summer 28, Sep 29, C4 21, Cal 28, Jun 28, May 28, Jun 28, Summer 28, Sep 29, C4 21, Cal 28, Jun 28, May 28, Jun 28, Summer 28, Sep 29, C4 21, Vinter 27, Spring 27, May North, South, and West. North ATC refers to Around the Clock. Continuously throughout the 27, Jun 27, Summer 27, Sep 27,						
26, Jun 26, Summer 26, Sep 26, Q4 26, Cat 27, Cat 27, Cat 27, Winter 28, Spring 28, May 28, Jun 28, Summer 28, Sep 28, Q4 Un 28, Summer 28, Sep 28, Q4 The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, 21, Winter 27, Spring 27, May North, South, and West. North ATC refers to Around the Clock. Continuously throughout the 27, Jun 27, Summer 27, Sep 27,				Jun 25, Summer 25, Sep 25, Q4		
Q4 26, Cal 25, Cal 26, Cal 27, Winter 28, Spring 28, May 28, Jun 28, Summer 28, Sep 28, Q4 28, Cal 28,						
Winter 28, Spring 28, May 28, Jun 28, Summer 28, Sep 28, Qe 28, Cal 28, 1M, 2M, 3M, Oct-Dec The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, 21, Winter 27, Spring 27, May North, South, and West. North ATC refers to Around the Clock. Continuously throughout the 27, Jun 27, Summer 27, Sep 27,						
Jun 28, Summer 28, Sep 28, Q4 28, Cal 28, Land, Jan, Jan, Jan, Jan, Jan, Jan, Jan, Jan						
The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, 21, Winter 27, Spring 27, May North, South, and West. North ATC refers to Around the Clock. Continuously throughout the 27, Jun 27, Summer 27, Sep 27,						
North, South, and West. North ATC refers to Around the Clock. Continuously throughout the 27, Jun 27, Summer 27, Sep 27,			The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston			
North ATC entire day and night. Q4 27 2021			North, South, and West. North ATC refers to Around the Clock. Continuously throughout the	27, Jun 27, Summer 27, Sep 27,		
		North ATC	entire day and night.	Q4 27	2021	

•			Winter 22, Spring 22, May 22,		
			Jun 22, Summer 22, Sep 22, Q4		
Ī			22, Winter 23, Spring 23, May 23, Jun 23, Summer 23, Sep 23,		
			Q4 23, Winter 24, Spring 24, May		
			24, Jun 24, Summer 24, Sep 24,		
			Q4 24, Cal 22, Cal 23, Cal 24,		
Ī			Winter 25, Spring 25, May 25,		
			Jun 25, Summer 25, Sep 25, Q4		
			25, Winter 26, Spring 26, May 26, Jun 26, Summer 26, Sep 26,		
			Q4 26, Cal 25, Cal 26, Cal 27,		
			Winter 28, Spring 28, May 28,		
			Jun 28, Summer 28, Sep 28, Q4		
			28, Cal 28, 1M, 2M, 3M, Oct-Dec		
		The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston,	21, Winter 27, Spring 27, May		
		North, South, and West. North Peak refers to Monday through Friday between 7 a.m. and 11	27, Jun 27, Summer 27, Sep 27,		
	North Peak	p.m., when electricity is consumed the most throughout the United States.	Q4 27 Winter 22, Spring 22, May 22,	2021	
			Jun 22, Summer 22, Sep 22, Q4		
			22, Winter 23, Spring 23, May		
			23, Jun 23, Summer 23, Sep 23,		
			Q4 23, Winter 24, Spring 24, May		
			24, Jun 24, Summer 24, Sep 24,		
			Q4 24, Cal 22, Cal 23, Cal 24, Winter 25, Spring 25, May 25,		
			Jun 25, Summer 25, Sep 25, Q4		
			25, Winter 26, Spring 26, May		
			26, Jun 26, Summer 26, Sep 26,		
			Q4 26, Cal 25, Cal 26, Cal 27,		
			Winter 28, Spring 28, May 28,		
			Jun 28, Summer 28, Sep 28, Q4		
		The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston,	28, Cal 28, 1M, 2M, 3M, Oct-Dec 21, Winter 27, Spring 27, May		
		North, South, and West. North Wrap refers to off-peak trading hours. Off-peak hours go from			
	North Wrap	midnight to 7 a.m. Monday-Sunday.	Q4 27	2021	
		The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston,			
	South 2v16	North, South, and West. South 2x16 refers to South Texas power trades on the weekends	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, Oct-Dec 21	4444	
	South 2x16	and holidays, 16 daytime hours per day. The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston,	26, Cal 27, Cal 28, Oct-Dec 21	2021	
		North, South, and West. South 7x16 refers to South Texas power trades for the 7 days per	Cal 22, Cal 23, Cal 24, Cal 25, Cal		
	South 7x16	week, 16 daytime hours per day.	26, Cal 27, Cal 28, Oct-Dec 21	2021	
		The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston, North, South, and West. South 7x8 refers to South Texas power trades for the 7 days per	Cal 22, Cal 23, Cal 24, Cal 25, Cal		
Ī	South 7x8	North, South, and West. South 7x8 refers to South Texas power trades for the 7 days per week, 8 nighttime hours per day.	Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Cal 28, Oct-Dec 21	2021	
	30001788	The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston,	20, Cai 27, Cai 28, Oct-Dec 21	2021	
		North, South, and West. South ATC refers to Around the Clock. Continuously throughout the	Cal 22, Cal 23, Cal 24, Cal 25, Cal		
	South ATC	entire day and night.	26, Cal 27, Cal 28, Oct-Dec 21	2021	
		The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston,			
Ī		North, South, and West. South Peak refers to Monday through Friday between 7 a.m. and 11	Cal 22, Cal 23, Cal 24, Cal 25, Cal		
	South Peak	p.m., when electricity is consumed the most throughout the United States. The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston,	26, Cal 27, Cal 28, Oct-Dec 21	2021	
		The Electric Reliability Council of Texas (ERCOT) Markets consist of 4 trading zones. Houston,			
	South Mean	North, South, and West. South Wrap refers to off-peak trading hours. Off-peak hours go	Cal 22, Cal 23, Cal 24, Cal 25, Cal		
	South Wrap	from midnight to 7 a.m. Monday-Sunday.	26, Cal 27, Cal 28, Oct-Dec 21	2021	
			Oct 21, Q4 21, Winter 21, Nov-		
			Dec 21, Q1 22, Summer 22,		
			Winter 22, Nov-Dec 22, Q1 23,		
			Summer 23, Winter 23, Nov-Dec		
1			23, Q1 24, Summer 24, Winter		
			23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer		
			23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1		
			23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-		
			23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27,		
			23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-		
			23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct22, Apr 22-Mar 23,		
			23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 55, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct22, Apr 22-Mar23, Nov22-Oct23, Apr 23-Mar24,		
			23, 01 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct22, Apr 22-Mar 23, Nov 22-Oct23, Apr 23-Mar 24, Nov 32-Oct 24, Apr 34-Mar 25,		
			23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 25, Summer 26, Winter 26, Nov-Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov22-Oct 23, Apr 23-Mar 25, Nov24-Oct 24, Apr 24-Mar 25, Nov24-Oct 25, Apr 25-Mar 26, Nov24-Oct 25, Apr 25-Mar 26, Nov24-Oct 25, Apr 25-Mar 26, Nov24-Oct 26, Apr 25-Mar 2		
			23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Winter 25, Winter 25, Summer 26, Winter 26, Nov-Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Q1 22, C1 23, C1 24, C1 25, C1 26, C1 27, Nov 21-0<122, Apr 22-Mar 23, Nov24-Ott23, Apr 23-Mar 24, Nov23-Ott24, Apr 24-Mar 26, Nov24-Ott25, Apr 25-Mar 27, Nov25-Ott26, Apr 25-Mar 26, Nov25-Ott26, Apr 25-Mar 27, Apr 25-Mar 27		
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 25, Summer 26, Winter 26, Nov-Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov22-Oct 23, Apr 23-Mar 25, Nov24-Oct 24, Apr 24-Mar 25, Nov24-Oct 25, Apr 25-Mar 26, Nov24-Oct 25, Apr 25-Mar 26, Nov24-Oct 25, Apr 25-Mar 26, Nov24-Oct 26, Apr 25-Mar 2	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, 01 24, Summer 24, Winter 24, Nov-Bec 24, 01 25, Summer 25, Winter 25, Winter 25, Nov-Dec 25, 01 26, Summer 26, Winter 26, Nov-Dec 26, 01 27, Summer 27, Winter 27, Nov-Dec 27, 01 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-0422, Apr 22-Mar 23, Nov22-0423, Apr 23-Mar 24, Nov23-0424, Apr 24-Mar 25, Nov24-0425, Apr 25-Mar 26, Nov24-0425, Apr 25-Mar 26, Nov24-0425, Apr 26-Mar 27, 2M, 3M, 4M, 5M, 6M, Q2 22, Q3 22, Q4 22, Q4 22, Q6 22, Dec 21-Mar 22	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, Q124, Summer 24, Winter 24, Nov-De 24, Q125, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Q12, Q12, Q12, Q12, Q12, Q12, Q12, Q12	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct22, Apr 22-Mar 23, Nov22-Oct23, Apr 23-Mar 24, Nov23-Oct24, Apr 25-Mar 26, Nov24-Oct25, Apr 25-Mar 26, Nov24-Oct25, Apr 25-Mar 26, Nov25-Oct26, Day 25-Mar 27, Apr 26, Apr 26, Apr 26, Apr 27, Mar 27, Oct 22, Q4 21, Winter 21, Nov-Dec 21, Q1 22, Summer 24, Summe	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, Q124, Summer 24, Winter 24, Nov-De 24, Q125, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Q12, Q12, Q12, Q12, Q12, Q12, Q12, Q12	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct22, Apr 22-Mar 23, Nov22-Oct23, Apr 23-Mar 24, Nov23-Oct24, Apr 25-Mar 26, Nov24-Oct25, Apr 25-Mar 26, Nov24-Oct25, Apr 25-Mar 26, Nov25-Oct26, Day 25-Mar 27, Apr 26, Apr 26, Apr 26, Apr 27, Mar 27, Oct 22, Q4 21, Winter 21, Nov-Dec 21, Q1 22, Summer 24, Summe	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Winter 25, Winter 25, Winter 26, Nov-Dec 25, Q1 26, Summer 27, Winter 27, Nov-Dec 27, Q1 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov 24-Oct 23, Apr 23-Mar 24, Nov 23-Oct 24, Apr 24-Mar 25, Nov 24-Oct 25, Apr 25-Mar 27, Nov 24-Oct 25, Apr 25-Mar 26, Nov 24-Oct 25, Apr 25-Mar 26, Nov 25-Oct 26, Apr 26-Mar 27, Apr 26-Ma	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, 0.124, Summer 24, Winter 24, Nov-Dec 24, 0.125, Summer 25, Winter 25, Nov-Dec 25, 0.1 26, Summer 26, Winter 26, Nov-Dec 25, 0.1 22, Summer 27, Nov-Dec 27, 0.1 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-0ct.27, Apr 22-Mar 23, Nov22-0ct.28, Apr 22-Mar 23, Nov22-0ct.28, Apr 23-Mar 24, Nov23-0ct.24, Apr 23-Mar 24, Nov23-0ct.24, Apr 23-Mar 24, Nov23-0ct.24, Apr 23-Mar 24, Nov23-0ct.24, Apr 23-Mar 24, Nov23-0ct.26, Apr 23-Mar 24, Nov2-0ct.26, Apr 23-Mar 24, Nov2-0ct.26, Apr 23-Mar 24, Nov2-0ct.26, Apr 23-Mar 24, Nov2-0ct.27, Oct. 21, Oct. 22, Oct. 22, Oct. 23, Oct. 23, Oct. 24, Oct. 25, Oct. 24, Oct. 25, Oct. 2	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, Q124, Summer 24, Winter 24, Nov-Dec 42, Q125, Summer 26, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q12, Summer 27, Winter 27, Nov-Dec 27, Q12, C42, C42, C42, C42, C42, C42, C42, C4	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, 0.124, Summer 24, Winter 23, Nov-Dec 24, 0.125, Summer 25, Winter 25, Nov-Dec 25, 0.1 26, Summer 26, Winter 26, Nov-Dec 26, 0.1 27, Summer 27, Winter 27, Nov-Dec 27, 0.1 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 25, Cal 26, Cal 27, Nov 21-0ct22, Apr 22-Mar 23, Nov23-0ct24, Apr 24-Mar 25, Nov24-0ct26, Apr 25-Mar 26, Nov25-0ct26, Apr 25-Mar 27, Dec 21, Cal 22, Summer 22, Cal 22, Oct 21, Oct 21, Oct 21, Oct 22, Dec 21-Mar 22, Oct 21, Oct 21, Oct 22, Dec 21, Oct 22, D	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, Q124, Summer 24, Winter 24, Nov-Dec 40, Q12 S, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Q12, Q12, Q12, Q12, Q12, Q12, Q12, Q12	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, 0.124, Summer 24, Winter 23, Nov-Dec 24, 0.125, Summer 25, Winter 25, Nov-Dec 25, 0.1 26, Summer 26, Winter 26, Nov-Dec 26, 0.1 27, Summer 27, Winter 27, Nov-Dec 27, 0.1 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 25, Cal 26, Cal 27, Nov 21-0ct22, Apr 22-Mar 23, Nov23-0ct24, Apr 24-Mar 25, Nov24-0ct26, Apr 25-Mar 26, Nov25-0ct26, Apr 25-Mar 27, Dec 21, Cal 22, Summer 22, Cal 22, Oct 21, Oct 21, Oct 21, Oct 22, Dec 21-Mar 22, Oct 21, Oct 21, Oct 22, Dec 21, Oct 22, D	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, 0124, Summer 24, Winter 23, Nov-Dec 24, 0125, Summer 25, Winter 25, Nov-Dec 25, 012, Summer 26, Winter 26, Nov-Dec 25, 012, Summer 27, Winter 27, Nov-Dec 27, 612, Cal 22, Cal 23, Winter 24, Winter 24, Winter 24, Winter 24, Winter 27, Winter 26, Win	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, 0.124, Summer 24, Winter 25, Nov-Dec 25, 0.1 25, Summer 26, Winter 25, Nov-Dec 25, 0.1 26, Summer 26, Winter 26, Nov-Dec 27, 0.1 22, 0.1 22, 0.1 22, 0.1 23, 0.1 24, 0.1 25, 0.1 24, 0.1 2	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, Q124, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Q1 22, C1 23, C1 24, C1 25, C1 27, Nov-Dec 25, Q1 27, Summer 28, Winter 28, Nov-Dec 28, Q1 27, Summer 29, Winter 29, Wi	2021	
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California.	23, 0.124, Summer 24, Winter 24, Nov-Dec 24, 0.125, Summer 25, Winter 25, Nov-Dec 25, 0.1 26, Summer 26, Winter 26, Nov-Dec 26, 0.127, Summer 27, Winter 27, Nov-Dec 27, 0.122, 0.123, 0.124, 0.125, 0.126, 0.127, Nov 21-0ct.22, Apr 22-Mar23, Nov22-0ct.23, Apr 22-Mar23, Nov22-0ct.24, Apr 23-Mar24, Nov23-0ct.24, Apr 23-Mar24, Nov23-0ct.24, Apr 23-Mar24, Nov23-0ct.24, Apr 23-Mar24, Nov24-0ct.24, Apr 23-Mar26, Nov25-0ct.26, Apr 23-Mar27, 2M, 3M, 4M, 5M, 6M, 02 22, 0.2 22,	2021	
Natural Gas Basis			23, Q124, Summer 24, Winter 24, Nov-Dec 24, Q125, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q17, Summer 27, Winter 27, Nov-Dec 27, Q12, Q12, Q12, Q12, Q12, Q12, Q12, Q12		
Natural Gas Basis	GATE	PG&E Citygate located outside of Sacremento in California. Alberta Energy Company is the Canadian benchmark price for natural gas	23, Q124, Summer 24, Winter 24, Nov-Dec 24, Q125, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q17, Summer 27, Winter 27, Nov-Dec 27, Q12, Q12, Q12, Q12, Q12, Q12, Q12, Q12	2021	
Natural Gas Basis			23, 0.124, Summer 24, Winter 25, Nov-Dec 25, 0.1 25, Summer 26, Winter 25, Nov-Dec 25, 0.1 25, Summer 26, Winter 25, Nov-Dec 27, 0.1 22, 0.1 22, 0.1 22, 0.1 22, 0.1 23, 0.1 24, 0.1 25, 0.1 26, 0.1 27, Nov-Dec 27, 0.1 22, 0.1 26, 0		
Natural Gas Basis			23, Q124, Summer 24, Winter 24, Nov-Dec 42, Q125, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q17, Summer 27, Winter 27, Nov-Dec 27, Q12, C412,		
Natural Gas Basis			23, 0124, Summer 24, Winter 23, NovDec 24, 0125, Summer 25, Winter 25, NovDec 25, 01 26, Summer 26, Winter 26, NovDec 25, 01 27, Summer 27, Winter 27, NovDec 27, 0122, 0123, 0124, 0125, 0125, 0123, 0124, 0125, 0126, 0127, Nov2Dec 27, 0127, NovDec		
Natural Gas Basis			23, Q124, Summer 24, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 27, Q1 28, Summer 27, Winter 27, Nov-Dec 27, Q1 22, Q12, Q12, Q12, Q12, Q12, Q12, Q		
Natural Gas Basis			23, 0124, Summer 24, Winter 23, Novibe 24, 0125, Summer 25, Winter 25, Nov-Dec 25, 0126, Summer 26, Winter 26, Nov-Dec 25, 0126, Summer 26, Winter 26, Nov-Dec 27, 0212, Cal 22, Cal 23, Cal 24, Sal 2		
Natural Gas Basis			23, Q124, Summer 24, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 27, Q1 28, Summer 27, Winter 27, Nov-Dec 27, Q1 22, Q12, Q12, Q12, Q12, Q12, Q12, Q		
Natural Gas Basis			23, 0.124, Summer 24, Winter 25, Nov-Dec 25, 0.1 25, Summer 26, Winter 25, Nov-Dec 25, 0.1 26, Summer 26, Winter 25, Nov-Dec 27, 0.1 22, 0.1 22, 0.1 22, 0.1 23, 0.1 24, 0.1 25, 0.1 24, 0.1 26, 0.1 27, 0.1 2		
Natural Gas Basis			23, Q124, Summer 24, Winter 25, Nov-Dec 25, Q1 26, Summer 36, Winter 26, Nov-Dec 25, Q1 26, Summer 37, Winter 25, Nov-Dec 25, Q1 26, Summer 36, Winter 26, Nov-Dec 37, Q12, Q12, Q12, Q12, Q12, Q12, Q12, Q12		
Natural Gas Basis			23, 0124, Summer 24, Winter 25, Nov-Dec 25, 01 26, Summer 26, Winter 25, Nov-Dec 25, 01 26, Summer 26, Winter 25, Nov-Dec 27, 01 25, Summer 27, Winter 27, Nov-Dec 27, 01 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 26, Cal 26, Cal 26, Cal 26, Cal 26, Cal 27, Nov 21-0ct22, Apr 22-Mar23, Nov22-0ct23, Apr23-Mar24, Nov23-0ct24, Apr23-Mar25, Nov24-0ct25, Apr25-Mar26, Nov25-0ct26, Apr25-Mar27, 2M, 3M, 4M, 5M, 6M, Q2 22, Q3 22, Q4 22, Oct 22, Q4 22, Oct 22, User21-Mar22 Oct 21, Q4 21, Winter 21, Nov-Dec 24, Q1 22, Summer 27, Winter 27, Nov-Dec 24, Q1 25, Summer 23, Winter 23, Nov-Dec 24, Q1 25, Summer 27, Winter 27, Nov-Dec 27, Q1 27, Cal 27, Nov 21-0ct23, Apr23-Mar24, Nov23-0ct23, Apr23-Mar24, Nov23-0ct24, Apr23-Mar25, Nov24-0ct25, Apr23-Mar25, Nov24-0ct25, Apr23-Mar26, Nov23-0ct24, Apr23-Mar26, Nov25-0ct26, Apr27-Mar27, Nov-Dec 27, Q1 22, Cal 27, Q1 27, Summer 23, Winter 23, Nov-Dec 24, Q1 25, Summer 23, Winter 23, Nov-Dec 24, Q1 25, Summer 23, Winter 23, Nov-Dec 25, Q1 27, Summer 23, Winter 23, Nov-Dec 25, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Q1 27, Uniter 27, Nov-Dec 27, Q1 27, Summer 27, Winter 27, Winte		
Natural Gas Basis			23, Q124, Summer 24, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 25, Nov-Dec 25, Q1 26, Summer 27, Winter 25, Nov-Dec 25, Q1 26, Summer 27, Winter 27, Nov-Dec 27, Q12, Q12, Q12, Q12, Q12, Q12, Q12, Q12		
Natural Gas Basis			23, 0124, Summer 24, Winter 25, Nov-Dec 25, 01 26, Summer 26, Winter 25, Nov-Dec 25, 01 26, Summer 26, Winter 26, Nov-Dec 27, 01 22, Cat 27, Nov-Dec 27, 01 22, Cat 27, Nov-Dec 27, 01 22, Cat 28, Cat		
Natural Gas Basis			23, Q124, Summer 24, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 25, Nov-Dec 25, Q1 26, Summer 27, Winter 25, Nov-Dec 27, Q1 25, Summer 27, Winter 27, Nov-Dec 27, Q1 22, Q12, Q12, Q12, Q12, Q12, Q12, Q		
Natural Gas Basis			23, 0124, Summer 24, Winter 23, Nov-Dec 25, 01 26, Summer 26, Winter 25, Nov-Dec 25, 01 26, Summer 26, Winter 26, Nov-Dec 25, 01 27, Summer 27, Winter 27, Nov-Dec 27, 01 22, 0123, 0124,		
Natural Gas Basis			23, Q124, Summer 24, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 25, Nov-Dec 25, Q1 26, Summer 27, Winter 25, Nov-Dec 27, Q1 25, Summer 27, Winter 27, Nov-Dec 27, Q1 22, Q12, Q12, Q12, Q12, Q12, Q12, Q		
Natural Gas Basis	AECO	Alberta Energy Company is the Canadian benchmark price for natural gas	23, Q124, Summer 24, Winter 25, Nov-Dec 25, Q1 28, Summer 26, Winter 25, Nov-Dec 27, Q1 28, Summer 27, Winter 25, Nov-Dec 27, Q1 28, Summer 27, Winter 27, Nov-Dec 27, Q1 22, Q12, Q12, Q12, Q12, Q12, Q12, Q		
Natural Gas Basis	AECO	Alberta Energy Company is the Canadian benchmark price for natural gas	23, 0124, Summer 24, Winter 23, NovDec 25, 012, Summer 26, Winter 26, NovDec 25, 012, Summer 27, Winter 28, NovDec 25, 0126, Summer 26, Winter 26, NovDec 26, 0127, Summer 27, Winter 27, NovDec 27, 0122, 0123, 0124, 0125, 0126, 0127, Nov 21-00122, Apr 22-Mar 23, Nov22-00123, Apr 22-Mar 23, Nov22-00124, Apr 22-Mar 23, Nov23-00124, Apr 23-Mar 24, Nov23-00125, Nov25-00126, Apr 23-Mar 24, Nov23-00124, Apr 23-Mar 25, Nov23-00124, Apr 23-Mar 25, Nov23-00124, Apr 23-Mar 26, Nov24-00125, Apr 23-Mar 27, Nov25-00126, Apr 23-Mar 27, Nov25-00126, Apr 23-Mar 27, Nov25-00126, Apr 23-Mar 27, Nov25-00126, O127, Nov25-00126, Apr 23-Mar 24, Nov3-00124, Apr 23-Mar 24,		

sa-	-6ст	SoCal Citygate is located in California right outside of Los Angeles.	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov23-Oct 24, Apr 24-Mar 25, Nov24-Oct 24, Apr 24-Mar 25, Nov24-Oct 26, Apr 25-Mar 26, Nov25-Oct 26, Apr 25-Mar 27, Nov25-Oct 26, Apr 25-Mar 26, Nov25-Oct 26, Apr 25-Mar 27, Nov4-Oct 26, Apr 24-Mar 27, Nov25-Oct 26, Apr 25-Mar 26, Nov25-Oct 26, Apr 25-Mar 26, Nov25-Oct 26, Apr 25-Mar 27, Apr 34, Apr 34, Mar 34, Mar 34, Mar 34, Mar 34, Mar 34, Mar 22, Dec 21-Mar 22, Qd 22, Oct 22,	2021	
MAL	LUN J	Malin Hub is located in southern boarder of Oregon	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 26, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov23-Oct 24, Apr 24-Mar 25, Nov24-Oct 25, Apr 23-Mar 24, Nov25-Oct 26, Apr 24-Mar 25, Nov24-Oct 25, Apr 25-Mar 27, 2M, 3M, 4M, 5M, 6M, Q2 22, Q3 22, Q4 22, Oct 22, Mar 23, MM, 24, SM, MM, MM, MM, MM, Q2 20, Q3 22, Q4 22, Oct 22, Mar 24-Mar 26, MM, 26, MM, MM, SM, 6M, Q2 22, Q3 22, Q4 22, Oct 22, Mar 24-Mar 26, MM, 26, MM, MM, SM, 6M, Q2 20, Q3 22, Q4 22, Oct 22, Mar 24-Mar 26, MM, MM, SM, 6M, Q2 20, Q3 22, Q4 22, Oct 22, Mar 24-Mar 26, MM, Page 24, Mar 26, MM, Page 24, MM,	2021	
ROX			Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov23-Oct 24, Apr 22-Mar 24, Nov23-Oct 24, Apr 24-Mar 25, Nov24-Oct 26, Apr 25-Mar 26, Nov24-Oct 26, Apr 25-Mar 26, Nov25-Oct 26, Apr 25-Mar 26, N	2021	
CIG		Gas Hub located in the Rockies	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 25, Winter 25, Nov-Dec 25, Q1 26, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q1 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 25, Cal 25, Cal 25, Cal 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 25, Cal 25, Cal 25, Cal 24, Cal 25, Cal 25, Cal 25, Cal 25, Cal 24, Cal 25, Cal 25, Cal 25, Nov2 30 Ct24, Apr 22-Mar 24, Nov23-0Ct24, Apr 25-Mar 26, Nov25-0Ct25, Apr 25-Mar 27, 2M, 3M, 4M, 5M, 6M, Q2 22, Q3 32, O4 22, Cht 22, Dec 21-Mar 22	2021	
SUM			Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 23, Q1 24, Summer 24, Winter 25, Winter 25, Nov-Dec 25, Q1 25, C5, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov2 20-Ct23, Apr 22-Mar 23, Nov2 20-Ct23, Apr 22-Mar 24, Nov23-Oct24, Apr 22-Mar 25, Nov24-Oct25, Apr 25-Mar 26, Nov24-Oct25, Apr 25-Mar 27, 2M, 3M, 4M, 5M, 6M, Q2 22, Q3 32, Q4 22, Ct22, Dec 21-Mar 22	2021	
		Gas Hub located in New Mexico	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 23, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 25, Winter 26, Nov-Dec 25, Q1 25, Summer 27, Winter 26, Nov-Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov23-Oct 24, Apr 23-Mar 26, Nov23-Oct 24, Apr 23-Mar 26, Nov24-Oct 25, Apr 23-Mar 26, Nov25-Oct 26, Apr 25-Mar 26, Nov25-Oct 26, Apr 26, Nov25-Oct 26, Apr 26, Nov25-Oct 26, Apr 26, Nov25-Oct 26, Nov25-Oct 26, Nov25-Oct 26, Nov25-Oc	2021	

PERM	Permian is located in Northwest Mexico / Southwest US	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct22, Apr 22-Mar23, Nov22-Oct23, Apr 23-Mar24, Nov23-Oct24, Apr 24-Mar25, Nov24-Oct25, Apr 25-Mar27, ZM, 3M, 4M, SM, 6M, Q2 22, Q3 22, Q4 22, Oct 22, Dec 21-Mar22	2021
WAHA	Gas Hub located within the Permian Basin in West Texas	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov- Dec 26, Q1 25, Nov-Dec 27, Q1 22, Q1 23, Q1 24, Q1 25, Q1 26, Q1 Q1 23, Q1 24, Q1 25, Q1 26, Q1 Q1 23, Q1 24, Q1 25, Q1 26, Q1 Q1 24, Q1 24, Q1 25, Q1 26, Q1 Q1 25, Q1 27, Q1 27, Q1 27, Q1 Q1 25, Q1 25, Q1 27, Q1 Q1 25, Q1 25, Q1 27, Q1 Q1 25, Q1 25, Q1 27, Q1 Q1 25, Q1 25, Q1 Q1 25, Q	2021
SHIP	Houston Ship Channel is located north end of the Galveston Bay to the channels turning t	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 23, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Rov-Dec 25, Q1 26, Summer 26, Winter 26, Rov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov 22-Oct 24, Apr 24-Mar 25, Nov 24-Oct 24, Apr 24-Mar 25, Nov 24-Oct 26, Apr 26-Mar 27, 2M, 3M, M, SM, GM, Q2 22, Q3 22, asin Q4 22, Oct 22, Dec 21-Mar 22	2021
TEXOK	Gas Zone from Montgomery County, Texas to Carter County, Oklahoma	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov 22-Oct 24, Apr 24-Mar 25, Nov 24-Oct 24, Apr 24-Mar 25, Nov 24-Oct 25, Apr 25-Mar 26, Nov 24-Oct 26, Apr 26-Mar 27, M, 3M, 4M, SM, 6M, Q2 22, Q3 22, Q4 22, Qt 22, Dec 21-Mar 22	2021
REX.Z3	Deliveries off of Rockies Express Pipeline into other pipelines in zone 3.	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Bec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov22-Oct 23, Apr 23-Mar 26, Nov24-Oct 26, Apr 26-Mar 27, Mov25-Oct 26, Apr 26-Mar 27, ZM, 3M, MM, SM, 6M, Q2 22, Q3 22, Q4 22, Q4 22, Q4 22, Q4 22, Q4 22, Q4 22, Q6 22, Q4 22, Q4 22, Q4 22, Q6 22, Q6 22,	2021
PAN	Panhandle Zone Pipeline starts in Texas and goes through OK,KS, MO,IL,IN,OH,MI	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Bec 22, Q1 23, Summer 23, Winter 23, Nov-Bec 23, Q1 24, Summer 24, Winter 24, Nov-Bec 24, Q1 25, Summer 25, Winter 25, Nov-Bec 25, Q1 26, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Bec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov 22-Oct 24, Apr 24-Mar 25, Nov 24-Oct 24, Apr 24-Mar 25, Nov 24-Oct 26, Apr 25-Mar 27, M3, M4, M5, M6, M2, Q2 22, Q3 22, Q4 22, Oct 22, Dec 21-Mar 22	2021

мсо	NGPL Midcontinent is located in southwest Kansas.	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-War 23, Nov23-Oct 24, Apr 24-War 25, Nov24-Oct 24, Apr 24-War 25, Nov24-Oct 24, Apr 24-War 25, Nov25-Oct 26, Apr 25-War 26, Nov25-Oct 26, Apr 25-War 26, No	2021	
ANR OK	ANR Pipeline System Company transports Natural Gas in Oklahoma	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 27, Q1 27, Vinter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-War 24, Nov23-Oct 24, Apr 24-War 25, Nov24-Oct 24, Apr 24-War 25, Nov24-Oct 24, Apr 24-War 25, Nov25-Oct 26, Apr 26-War 27, Nov24-Oct 26, Apr 26-War 26, Nov25-Oct 26, Apr 26-War 27, Nov4-Oct 26, Apr 26-War 26	2021	
SSTAR	Southern Star Index includes Texas, Oklahoma and Kansas	Oct 21, Q4 21, Winter 21, Nov- bec 21, Q1 22, Summer 22, Winter 22, Nov-bec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 24, Nov-bec 24, Q1 25, Summer 25, Winter 25, Nov-bec 25, Q1 26, Summer 26, Winter 26, Nov-bec 27, Q1 22, Q1 27, Summer 27, Winter 27, Nov-bec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov23-Oct 24, Apr 24-Mar 25, Nov24-Oct 24, Apr 24-Mar 25, Nov24-Oct 26, Apr 26-Mar 27, 2M, 3M, 4M, 5M, 6M, Q2 22, Q3 22, Q4 22, Oct 22, Nov25-War 26, Nov25-Oct 26, Apr 26-Mar 27, 2M, 3M, 4M, 5M, 6M, Q2 22, Q3 22, Q4 22, Oct 22, Nov21-Mar 24	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 1 and West 2 Pooling Area, and the West 1 and West 2 Pooling Area.	Oct 21, Q4 21, Winter 21, Nov- Dec 22, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 24, Nov-Dec 24, Q1 25, Summer 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Nov-Dec 26, Q1 22, Cq1 23, Cq1 24, Cq1 25, Cq1 26, Cq1 27, Nov 21-Oct 27, Cq1 22, Cq1 23, Cq1 24, Cq1 25, Cq1 26, Cq1 27, Nov 21-Oct 23, Apr 23-Mar 24, Nov23-Oct 24, Apr 25-Mar 27, Nov3-Dec 25, Cq1 26, Cq1 37, Nov2 30-Oct 24, Cq1 25, Cq1 26, Cq1 37, Nov2 30-Oct 24, Cq1 25, Cq1 26, Cq1 37, Nov2 30-Oct 24, Nov2 30-Oct 24, Cq1 37, Nov2 30	2021	
DMARC	Northern Natural Demarc Description: Deals transacted at NNG's Demarcation point, which is the pooling point that separates NNG into its Field and Market zones. This is pooling point/Nileage indictor District (NID) point 168 as defined in NNG's Rate Schedule MPS: MID Pooling Services rate schedule. The point Ntel's located in Clay Country, KS.	Nov25-Oct26, Apr26-Mar27, 2M,	2021	
VENT	Deliveries at the Ventura pooling point on Northern Natural Gas in Hancock County, IA.	Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 25, Winter 25, Nov-Dec 25, Q1 25, Summer 26, Winter 26, Nov- Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Apr 22-Mar 23, Nov23-Oct 23, Apr 23-Mar 26, Nov23-Oct 26, Apr 26-Mar 25, Nov25-Oct 26, Apr 26-Mar 27, Nov 21-Oct 26, Apr 26-Mar 27, Nov25-Oct 26, Apr 26-Mar 27, Nov25-Oct 26, Apr 26-Mar 27, Nov25-Oct 26, Apr 26-Mar 27, Nov25-Oct 26, Apr 26-Mar 27, May, M, MM, SM, MC, Q1 22, Q3 22, Q4 22, Oct 22, Dec 21-Mar 22	2021	

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Section 1995 Market Description 2009 Market		СНІ	Chicago Citygate Gas Pipeline in Chicago Illinois	Dec 21, 01 22, Summer 22, Winter 22, Nov-Dec 23, 01 23, Summer 23, Winter 23, Nov-Dec 23, 01 24, Summer 23, Winter 23, Nov-Dec 24, 01 25, Summer 25, Winter 25, Nov-Dec 26, 01 25, Summer 27, Winter 27, Nov-Dec 27, c1 22, c1 23, c1 24, c1 25, c1 26, C1 27, Summer 27, Nov-Dec 26, 01 27, Summer 27, Nov-Dec 27, c1 22, c1 23, c1 24, c1 25, c1 26, C1 27, Nov 21-0212, Apr 22-Mar 23, Nov23-02124, Apr 23-Mar 24, Nov23-02124, Apr 23-Mar 25, Nov25-02126, Apr 23-Mar 27, Nov25-02126, Apr 23-Mar 26, Nov25-02126, Apr	2021	
Company		місн	Michiean Consolidated Gas Pineline	Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q1 24, Summer 24, Winter 25, Worter 25, Winter 25, Worter 25, Winter 25, Winter 26, Summer 26, Winter 26, L0 127, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Summer 27, Nov 21-Oct 22, Par 22-Mar 23, Nov22-Oct 23, Par 23-Mar 25, Nov23-Oct 24, Par 23-Mar 25, Nov23-Oct 26, Par 23-Mar 25, Nov25-Oct 26, Par 23-Mar 27, Nov25-Oct 26, Par 23-Mar 26, Nov25-Oct 26, Nov25-Oct 26, Par 23-Mar 26, Nov25-Oct 26,	2021	
Social Index Futures Social Index Social Muterinary Index Index Social Index Futures Social Index Social Muterinary Index Social Index Social Muterinary Index Social Index Futures Social Index				Oct 21, Q4 21, Winter 21, Nov- Dec 21, Q1 22, Summer 22, Winter 22, Nov-Dec 22, Q1 23, Summer 23, Winter 23, Nov-Dec 23, Q124, Summer 24, Winter 25, Winter 25, Nov-Dec 25, Q1 26, Summer 26, Winter 26, Nov-Dec 26, Q1 27, Summer 27, Winter 27, Nov-Dec 27, Cal 22, Cal 23, Cal 24, Cal 25, Cal 26, Cal 27, Nov 21-Oct 22, Pp 22-Mar 23, Nov23-Oct 24, Apr 24-Mar 25, Nov23-Oct 24, Apr 24-Mar 25, Nov24-Oct 26, Apr 25-Mar 26, Nov25-Oct 26, Apr 25-Mar 27, Nov24-Oct 26, Apr 25-Mar 27, Nov24-Oct 26, Apr 25-Mar 27, Nov25-Oct 26, Apr 25-Mar 27, Nov35-Oct 26, Apr 25-Mar 27, Nov35-Oct 26, Apr 25-Mar 27, Nov45-Oct 26, Apr 25-Mar 26, Nov45-Oct 26, Apr 26, Nov45-Oct 26, Apr 26, Nov45-Oct 26, Apr 26, Nov45-Oct 26, Apr 26, Nov		
Soci Extracting Proposal Index Soci Extracting Proposal Index	Natural Gas Index		Socal is the Southern California Gas service territory.	1M, Winter 21, Summer 22,		
Private South Martinine Physical Index Opening and Physical Index Opening and Physical Index Opening Physical Index Openin			Deliveries into the Southern California Gas system Southern Zone via El Paso Natural Gas at	1M, Winter 21, Summer 22,		
Delivered on Neurol Delivered on Neurol River Popilises State-Ring (From southwestern Worker Finger (From southwestern Worker) (Finger 1) South Worker Finger Physical Index South Years Physical Index From Neurol Physical In			Deliveries on El Paso's south mainline at points between Cornudas station in West Texas to	1M, Winter 21, Summer 22,		
Social Wheeler Ridge Physical Index Social Water Physical			Deliveries on Kern River Pipelines extending from southwestern Wyoming to Bakersfield, California.	Winter 22, Summer 23	2021	
Soci Rame Physical Index Transactions received into Scattlance California Cas From the form here Station Transactions received into Scattlance California Cas From the form here Station Transactions received into the Third France Cas Release (Cas From the Station Here Station Transactions received into the Third France Cas From the Station Here Station Transactions received into the Third Cas Release (Cas From the Station Here Station Transactions received into the Third Cas Release (Cas From the Station Cas From Cas Fro		Socal Wheeler Ridge Physical Index	River/Mojave, and from PG&E at Kern River Station.	Winter 22, Summer 23	2021	
Scal SRS Physical Index Transactions received into the The Public Set Set Exercise (SEE) Topics (See Exercise (SEE) See Exercise (SEE) Topics (See Exercise (SEE) Topics (See Exercise (SEE) See Exercise (SEE) Topics (See Exercise (SEE) See Exercise (SEE) Se		Socal Kramer Physical Index		Winter 22, Summer 23	2021	
Other Jorden's approximately 5 miles southward of Needles, California, 6 and Personal Control of Needles Physical Index Ocean Needles Physical Index Otherwise to coloration bank Southward California Gas system in Recitors, California, 9 miles of Needles Physical Index Otherwise to coloration and the Southward California Gas system in Needles, California, 9 miles of Needles Physical Index Otherwise to coloration and the Southward California Gas system in Needles, California, 9 miles of Needles Southward California, 9 mil		Socal KRS Physical Index	Transactions received into Southern California Gas From the Kern River Station.	,	2021	
Social Needles Physical Index Octionwrites Into the Southern California Gas system in Needles, California Social City Gase Physical Index OCT Org Gase Index Futures PSC City Gase Index Futures And In the natural ass giceline in Needles California Minimum Programmen PS (City Gase Index Futures) And In the natural ass giceline in Needles California Minimum Psc (Psc Gase Physical Index Minimum Psc (Psc Gase Psc Gase Ps			(Site) located approximately 15 miles southeast of Needles, California, in San Bernardino			
Deliveries to outsomers behalf Southern California Gail hood distribution system in Southern (Lifernia Scale hood distribution system in Southern (Lifernia Scale hood distribution system in Southern (Lifernia Scale hood distribution system in Northern California (Lifernia Scale Hood Hood Scale Hood Scale Hood Scale Hood Hood Hood Scale Hood Hood Scale Hood Ho				1M, Winter 21, Summer 22,		
PGE Chygate in PGEC State Bright index PGE Chygate in PGEC State distribution system in Northern California. Minimizer 23, summer 23, 2021 Main Index Futures Main is the natural ass potentie in Main (Preson Physical Index PGEC Style State Physical Index PGEC Style Style Physical Index PGEC Style Physical Index			Deliveries to customers behind Southern California Gas' local distribution system in Southern	1M, Winter 21, Summer 22,		
REC Day Class Physical Index Deliverine into the PGSE system in Northern California. Will, Writer 21, Summer 23, 2021 Mails Index Futures Mails in the natural ass abeliene in Mails, Oreson. Writer 23, Summer 23, 2021 Mails Physical Index GTN Mails Physical Index PGSE's Redwood Path at Mails, Oreson. Ruby-One Hill Physical Index PGSE's Redwood Path at Mails, Oreson. Writer 23, Summer 23, 2021 Mill, Writer 21, Summer 22, 2021 Mill, Writer 23, Summer 23, 2021 M		BGE City Gate Index Futures		1M, Winter 21, Summer 22,		
Malin index Futures Malin is the natural gas gipeline in Malin, Oreson. Worter 22, Summer 23, 2021 Worter 23, Summer 23, 2021 Buly-Oney tell Physical Index Oeleveries from TransChanda's CFI Physician and If Paso/Ronder Morgan's Ruby Pipeline into De Congress. Buly-Oney tell Physical Index Oeleveries into the Ruby pipeline in Oney tells, California. Perm Index Futures Armin is the natural gas gipeline in the Permina Busin, Located in Northwest Mexico / Trans. Perm Index Futures Permina Keystone Physical Index Deliveries into the Washa Pool Physical Index Deliveries into the Washa Pool Permina Busin Area near EF Paso. Teas. Whate 22, Summer 23 Worter 22, Summer 23 Worter 23, Summer 23 Worter 23, Summer 23 Worter 23, Summer 23 Worter 23, Summer 23 Worter 24, Summer 23 Worter 25, Summer 23 Worter 26, Summer 23 Worter 26, Summer 23 Worter 27, Summer 23 Worter 28, Summer		PGE City Gate Physical Index	The engine of the first and additional system in Northern combinition.	1M, Winter 21, Summer 22,	2021	
Deliveries from TransCanada's GTN Popiline and El Paso/Rinder Morgan's Ruby Popiline into J. M., Winter 21, Summer 22, 2021 Ruby Onyx Hill Physical Index Permit side in Enter and Service into the Ruby pipeline in Onyx Hills, California. Permit side Futures Permit side for Enter and Service into the Ruby pipeline in the Permits Basin, Located in Northwest Mexico / Texas. Bermit side Futures Permit side for Service into the Keystone pipeline in the Permits Basin, Located in Northwest Mexico / Texas. Bermit side Futures Permits Reystone Physical Index Deliveries into the Keystone pipeline in the Permits Basin, Located in Northwest Mexico / Texas. Bermits Reystone Physical Index Deliveries into the Waha Pool Permits Basin Area near El Paso, Texas. Bermits Reystone Physical Index Deliveries into the Waha Pool Permits Basin Area near El Paso, Texas. Bermits Reystone Physical Index Deliveries into the Waha Pool Permits Basin Area near El Paso, Texas. Bermits Reystone Physical Index Deliveries into the Waha Pool Permits Basin Area near El Paso, Texas. Winter 22, Summer 23. Waha Index Futures Waha Index Futures Waha Index Futures Waha Is docated within the Permits Basin in West Texas. Winter 23, Summer 23. Winter 23, S				1M, Winter 21, Summer 22, Winter 22, Summer 23		
Ruby-Ony Hill Physical Index Deliveries into the Ruby pipeline in Onys Hills, California. Winter 23, summer 23 JM, Writer 24, Summer 23 JM, Writer 25, Summer 23 JM, Writer 27, Summer 23 JM, Writer			Deliveries from TransCanada's GTN Pipeline and El Paso/Kinder Morgan's Ruby Pipeline into	1M, Winter 21, Summer 22, Winter 22, Summer 23		
Perm index Futures Perm is the natural gas pipeline in the Perman Basin, Located in Northwest Mexico / Texas. Deliveries into the Keystone pipeline in the Perman Basin, Located in Northwest Mexico / Texas. Deliveries into the Keystone pipeline in the Perman Basin, Located in Northwest Mexico / Texas. Deliveries into the Keystone pipeline in the Perman Basin, Located in Northwest Mexico / Mill. Winter 22, Summer 23, 2021 Deliveries into the Waha Pool Physical Index Deliveries into the Keystone pipeline in the Perman Basin Area near El Paso, Texas. Deliveries into the Keystone pipeline in the Perman Basin Area near El Paso, Texas. Mill. Winter 21, Summer 22, 2001 Mill. Winter 21, Summer 23, 2021 Mill. Winter 22, Summer 23, 2021 Deliveries into the Keystone pipeline in the Perman Basin Area near El Paso, Texas. Mill. Winter 21, Summer 22, 2001 Winter 22, Summer 23, 2021 Winter 23, Summer 24, 2001 Winter 23, Summer 24, 2001 Winter 23, Summer 24, 2001 Winter 24, Summer 25, 2001 Winter 25, Summer 26, 2001 Winter 27, Summer 27, 2001 Winter 27, Summer 28, 2001 Winter 27, Summer 29, 2001 Summer 28, Summer 29, 2001 Summer 29, Summer 29, 2001 Summer 29, Summer 29, 2001 Winter 29, Summer 29, 2001 Winte				1M, Winter 21, Summer 22, Winter 22, Summer 23		
Permian Keystone Physical Index Delieveries into the Waha Pool Permian Basin Area near El Paso, Texas. Deliveries into the Keystone pipeline in the Permian Basin, Located in Northwest Mexico / Inter 22, Summer 23 Permian Keystone Physical Index Texas. Deliveries into the Keystone pipeline in the Permian Basin, Located in Northwest Mexico / Winter 22, Summer 23 Permian Keystone Physical Index Deliveries into the Waha Pool Permian Basin Area near El Paso, Texas. Winter 23, Summer 23 Waha Index futures Waha is located within the Permian Basin Area near El Paso, Texas. Winter 23, Summer 23 Winter 23, Summer 23 2021 Waha Index futures Waha is located within the Permian Basin Area near El Paso, Texas. Winter 23, Summer 23 Winter 23, Summer 23 2021 Waha Index futures Deliveries into the Waha Jub Jocated within the Permian Basin in West Texas. Winter 23, Summer 23 Winter 23, Summer 23 2021 Winter 23, Summer 24 Winter 23, Summer 24 Winter 23, Summer 24 Winter 23, Summer 27 2021 Winter 23, Summer 24 Winter 24, Summer 25 2021 Winter 25, Summer 26 Winter 25, Summer 27 Winter 25, Summer 28 2021 Winter 25, Summer 28 2			Perm is the natural gas pipeline in the Permian Basin, Located in Northwest Mexico / Texas.	1M, Winter 21, Summer 22, Winter 22, Summer 23	2021	
EP White 700 Physical Index Deliveries into the Whate 800 Permian Basin Area near El Paso, Texas. Winter 22, Summer 23 Permian Keystone Physical Index Texas. EP Waha Fool Physical Index Deliveries into the Waha Fool Permian Basin Located in Northwest Mexico Whater 20, Summer 22, Summer 22, Summer 22, Summer 23, Summer 23, Summer 24, Summer 24, Summer 25, Summer 25, Summer 26, Summer 27, Summer 27, Summer 28, Summer 28, Summer 29, Su		Permian Keystone Physical Index		Winter 22, Summer 23	2021	
Permian Keystone Physical Index EP Waha Pool Physical Index Deliveries into the Waha Pool Permian Basin Area near El Paso, Texas. Winter 22, Summer 23 Waha Index Futures Waha is located within the Permian Basin in West Texas. Winter 22, Summer 23 Waha Hub Physical Index Deliveries into the Waha hub located within the Permian Basin in West Texas. Winter 22, Summer 23 Waha Hub Physical Index Deliveries into the Oasis Waha Pipeline located in Southeast Texas. Winter 22, Summer 23 Oasis Waha Pool Physical Index Deliveries into the Oasis Waha Pipeline located in Southeast Texas. Winter 22, Summer 23 San Juan Index Futures San Juan pipeline is located in Northwest New Mexico. Winter 22, Summer 22 Bondad Station Physical Index Deliveries into the Web Banco Transwestern Pipeline Company located in the San Juan Basin. In New Mexico/Texas. Winter 22, Summer 23 Winter 22, Summer 23 TW Blanco Physical Index Deliveries into the Tw-Blanco Transwestern Pipeline Company located in the San Juan Basin. In New Mexico/Texas. Winter 22, Summer 23 Ogal Physical Index Opal Physical		EP Waha Pool Physical Index	Delieveries into the Waha Pool Permian Basin Area near El Paso, Texas.	Winter 22, Summer 23	2021	
EP Waha Pool Physical Index Deliveries into the Waha Pool Permian Basin Area near El Paso, Texas. Winter 22, Summer 23 UM, Winter 23, Summer 23 UM, Winter 24, Summer 23 UM, Winter 25, Summer 23 UM, Winter 27, Summer 23 UM, Winter 27, Summer 23 UM, Winter 27, Summer 23 UM, Winter 28, Summer 23 UM, Winter 29, Summer 20 UM		Permian Keystone Physical Index		Winter 22, Summer 23	2021	
Wah Index Futures Whah is located within the Permian Basin in West Texas. Winter 22, Summer 23 IM, Winter 22, Summer 23 I		EP Waha Pool Physical Index	Delieveries into the Waha Pool Permian Basin Area near El Paso, Texas.	Winter 22, Summer 23	2021	
Waha Hub Physical Index Deliveries into the Waha hub located within the Permian Basin in West Texas. Winter 22, Summer 23 1M, Winter 22, Summer 23 1M, Winter 22, Summer 23 2021 May 1 May		Waha Index Futures	Waha is located within the Permian Basin in West Texas.	Winter 22, Summer 23	2021	
San Juan index Futures San Juan pipeline is located in Northwest New Mexico. Winter 22, Summer 23 Bondad Station Physical Index Deliveries into the Bondad Station Pool located in the San Juan Basin, in New Mexico/Texas. Winter 22, Summer 23 Deliveries into the TV-Blanco Transwestern Pipeline Company located in the San Juan Blanco Mysical Index Pool in New Mexico. Rox Index Futures Rox Index Futures Receipt Physical Index Receipts the the Kern River Pipeline Starting from Southwest Wyoming and Ending In JM, Winter 22, Summer 23 Receipts the the Kern River Pipeline starting from Southwest Wyoming and Ending In JM, Winter 23, Summer 23 Receipts the Mark Futures Receipt Physical Index Receipt Physical Index Receipt Physical Index Receipt Physical Index Receipts Mysical Index Receipt Physical In				1M, Winter 21, Summer 22,		
Bondad Station Physical Index Deliveries into the Bondad Station Pool located in the San Juan Basin, in New Moxico/Texas. Winter 22, Summer 23, 2021 TW Blanco Physical Index Pool in New Mexico. Rox Index Futures Rox Index Futures Rox Index Futures Rox Index Futures Receipts the the Kern River Pipeline Corporation in the Rocky Mountains. Receipts the the Kern River Pipeline Starting from Southwest Wyoming and Ending in 1M, Winter 21, Summer 23, 2021 IM, Winter 22, Summer 23 2021 IM, Winter 23, Summer 23, 2021 IM, Winter 23, Summer 23, 2021 IM, Winter 24, Summer 23, 2021 IM, Winter 25, Summer 23, 2021 IM, Winter 27, Summer 23, 2021 IM, Winter 28, Summer 29, 2021 IM, Winter 29,				1M, Winter 21, Summer 22,		
Deliveries into the TW-Blanco Transwestern Pipeline Company located in the San Juan Blanco 18, Winter 21, Summer 22, Winter 22, Summer 23 2021 Rox Index Futures Rox index Futures Recipt Physical Index Rox Index Futures Black Find Find Find Find Find Find Find Find				1M, Winter 21, Summer 22,		
Rox Index Futures Rox Index Fut			Deliveries into the TW-Blanco Transwestern Pipeline Company located in the San Juan Blanco	1M, Winter 21, Summer 22,		
Reciepts the the Kern River Pipeline starting from Southwest Wyoming and Ending in Bakerifield, California. Winter 21, Summer 22, Winter 22, Summer 23 2021 Transactions within the Kern River Fuel Zone, which includes the Hams Fork interconnect with CIG and Northwest Pipeline, Opal Plant; Overdand Trail interconnect with CIG and Northwest Pipeline, Opal Plant; Overdand Trail interconnect; Pioneer Plant; Rendezvous Pipeline Plant/interconnect; Roberson Creek interconnect with Dominion Opal Physical Index Overthrust, and KRGT Virtual Receipts. LIM, Winter 21, Summer 23 Winter 22, Summer 23 LIM, Winter 21, Summer 22, Winter 22, Summer 23 LIM, Winter 21, Summer 22, Winter 22, Summer 23 LIM, Winter 21, Summer 22, Winter 22, Summer 23 LIM, Winter 23, Summer 22, Winter 23, Summer 23 LIM, Winter 24, Summer 23 LIM, Winter 24, Summer 23 LIM, Winter 25, Summer 25, Winter 25, Summer 26, Winter 25, Summer 26, Winter 25, Summer 27,		rvv Dianco Physical Index		1M, Winter 21, Summer 22,		
Transactions within the Kern River Fuel Zone, which includes the Hams Fork interconnect with Dominion Overthrust, Muddy Creek Composition, Popal on interconnects with CIG and Northwest Pipeline; Opal Plant; Overland Trail interconnect; Pioneer Plant; Rendezvous Pipeline Plant/interconnect; Roberson Creek interconnect with Dominion Opal Physical Index Overthrust, and KRGT Virtual Receipts. IM, Winter 22, Summer 23 OIG Index Futures OIG Index Futures OIG Index Futures OIG Physical Index Oeliveries into the CIG pipeline Hub located in the Rockies. IM, Winter 21, Summer 22, Winter 22, Summer 23 OIM, Winter 21, Summer 22, Uniform 22, Summer 23 OIM, Winter 21, Summer 23 OIM, Winter 21, Summer 23 OIM, Winter 21, Summer 23 OIM, Winter 23, Summer 23 OIM, Winter 23, Summer 23 OIM, Winter 24, Summer 23 OIM, Winter 25, Summer 25, OIM OINTER 25, Summer 25, OIM OINTER 25, Summer 26, OIM OINTER 25, OINTE		Roy Index Futures	ROX location is in the Northwest Pineline Corporation in the Books Meuntains		2021	
IM, Winter 21, Summer 22, CIG Index Futures CIG hub is located in the Rockies. CIG Physical Index Deliveries into the CIG pipeline Hub located in the Rockies. IM, Winter 21, Summer 22, IM, Winter 21, Summer 23, Deliveries in the Cheyenne location owned and operated by Kinder Morgan which runs from IM, Winter 23, Summer 23, IM, Winter 23, Summer 23, Winter 24, Summer 23, Winter 25, Summer 23, Winter 25, Summer 26, Winter 26, Summer 27, Winter 27, Summer 27, Winter 27, Summer 28, Winter 28, Summer 28, Winter 28, Summer 28, Winter 29, Summer 29, Winter 29			Reciepts the the Kern River Pipeline starting from Southwest Wyoming and Ending in Bakerfield, California.	1M, Winter 21, Summer 22,	2021	
LIM, Winter 21, Summer 22, CIG Physical Index Deliveries into the CIG pipeline Hub located in the Rockies. Winter 22, Summer 23, Deliveries in the Cheyenne location owned and operated by Kinder Morgan which runs from 1M, Winter 21, Summer 22, Minter 22, Summer 23, Deliveries in the Cheyenne location owned and operated by Kinder Morgan which runs from 1M, Winter 21, Summer 22,		Kern Receipt Physical Index	Reciepts the the Kern River Pipeline starting from Southwest Wyoming and Ending in Bakerfield, California. Transactions within the Kern River Fuel Zone, which includes the Hams Fork interconnect with Dominion Overthrust; Muddy Creek Compressor Station, Pool and interconnects with ClG and Northwest Pipeline; Opal Plant; Overland Trail interconnect; Pioneer Plant; Rendezvous Pipeline Plant/interconnect; Roberson Creek interconnect with Dominion	1M, Winter 21, Summer 22, Winter 22, Summer 23 1M, Winter 21, Summer 22,		
Deliveries in the Cheyenne location owned and operated by Kinder Morgan which runs from 1M, Winter 21, Summer 22,		Kern Receipt Physical Index Opal Physical Index	Reciepts the the Kern River Pipeline starting from Southwest Wyoming and Ending in Bakerfield, California. Transactions within the Kern River Fuel Zone, which includes the Hams Fork interconnect with Dominion Overthrust, Muddy Creek Compressor Station, Pool and interconnects with CIG and Northwest Pipeline; Opal Plant; Overland Trail interconnect; Pioneer Plant; Rendezvous Pipeline Plant/Interconnect; Roberson Creek interconnect with Dominion Overthrust, and KRGT Virtual Receipts.	1M, Winter 21, Summer 22, Winter 22, Summer 23 1M, Winter 21, Summer 22, Winter 22, Summer 23 1M, Winter 21, Summer 22,	2021	
Territor in process makes and in the region makes and		Kern Receipt Physical Index Opal Physical Index CIG Index Futures	Reciepts the the Kern River Pipeline starting from Southwest Wyoming and Ending in Bakedrields (Zdiffornia. Transactions within the Kern River Fuel Zone, which includes the Hams Fork interconnect with Dominion Overthrust; Muddy Creek Compressor Station, Pool and interconnects with ClG and Northwest Pipeline; Opal Plant; Overland Trail interconnect; Pioneer Plant; Rendezous Pipeline Plant/Interconnect; Roberson Creek Interconnect with Dominion Overthrust, and KRGT Virtual Receipts. CLG hub is located in the Rockies.	1M, Winter 21, Summer 22, Winter 22, Summer 23 1M, Winter 21, Summer 22, Winter 22, Summer 23 1M, Winter 21, Summer 22, Winter 22, Summer 23, 1M, Winter 21, Summer 22,	2021 2021	

	·			
		1M, Winter 21, Summer 22,		
Rex Compression Pool Index	Deliveries into the Rockies Express Pipeline (REX).	Winter 22, Summer 23	2021	
		1M, Winter 21, Summer 22,		
Rocky Mountain Pool Physical Index	Deliveries into the Rocky Mountain Pool located in the Rockies.	Winter 22, Summer 23	2021	
	Deliveries into the White River Hub located in Northwest Colorado, and is actually the			
	combination between Enterprise's Meeker, CO Processing Plant and pipeline			
	interconnections with Questar Pipeline, Rockies Express, TransColorado, Colorado Interstate			
	Gas, Wyoming Interstate Company, Northwest Pipeline, and Williams Field Services'	1M, Winter 21, Summer 22,		
White River Hub Physical Index	Parachute Lateral.	Winter 22, Summer 23	2021	
		1M, Winter 21, Summer 22,		
Wyoming Pool Physical Index	Deliveries into the Wyoming Natural Gas Hub.	Winter 22, Summer 23	2021	
	Transactions within the Kern River Fuel Zone, which includes the Hams Fork interconnect			
	with Dominion Overthrust; Muddy Creek Compressor Station, Pool and interconnects with			
	CIG and Northwest Pipeline; Opal Plant; Overland Trail interconnect; Pioneer Plant;			
	Rendezvous Pipeline Plant/interconnect; Roberson Creek interconnect with Dominion			
Opal Physical Index	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	
	Deliveries in the Cheyenne location owned and operated by Kinder Morgan which runs from			
Cheyenne Physical Index	the Wyoming-Colorodo border to South Central Kansas.	Exchange & OTC	2021	
Rex Compression Pool Index	Deliveries into the Rockies Express Pipeline (REX).	Exchange & OTC		
Rocky Mountain Pool Physical Index	Deliveries into the Rocky Mountain Pool located in the Rockies.	Exchange & OTC		
	Deliveries into the White River Hub located in Northwest Colorado, and is actually the			
	combination between Enterprise's Meeker, CO Processing Plant and pipeline			
	interconnections with Questar Pipeline, Rockies Express, TransColorado, Colorado Interstate			
	Gas, Wyoming Interstate Company, Northwest Pipeline, and Williams Field Services'			
White River Hub Physical Index	Parachute Lateral.	Exchange & OTC		
Wyoming Pool Physical Index	Deliveries into the Wyoming Natural Gas Hub.	Exchange & OTC		