

Monthly Highlights and
References.

Global Energy Markets

VALQUS ENERGY

January, 2020



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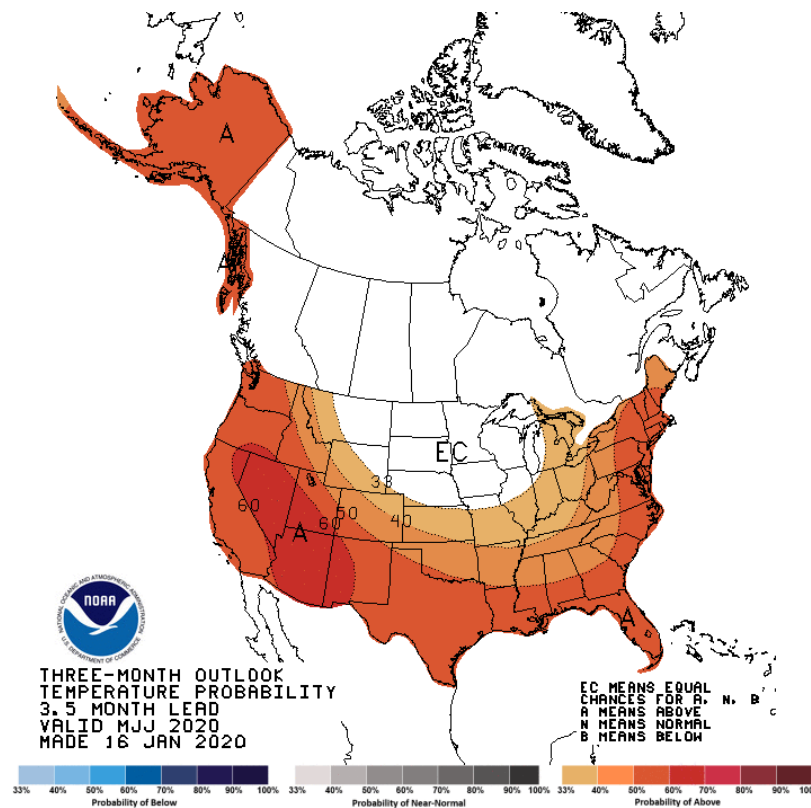
[Consulting Team](#)

Overview

International contracts are moving forward into new technologies that integrate with renewable energy technologies such as power to gas, this 2020 we will face challenges in oil and natural gas prices, mild spring and summer weather will stabilize an average natural gas price of 3.15 USD per MMBTU during the season.

LNG Projects globally will continue to expand, the US is leading the expansion of the market, we expect an increase of 20% in LNG investment, we will begin to see new flexible contracts as asian long term contracts are beginning to expire.

Electric Markets will continue to mature as energy legislation will increase opportunities to develop, fund and bid for new transmission and regional interconnection projects to enhance the energy mix lowering electric costs of \$/MWh and achieve the average year goal of 40 USD/MWh.



Reference.

https://www.cpc.ncep.noaa.gov/products/predictions/long_range/lead04/off04_temp.gif

Energy Indexes

Index		Price	Price
SPGSCL	S&P GSCI Crude Oil		276.04
SPGSBR	S&P GSCI Brent Crude		464.14
DJCICL	Dow Jones Commodity Index Crude Oil		424.31
SPGSNG	S&P GSCI Natural Gas		87.31
UGA	US GASOLINE FD/UT LTD PARTN INT		28.97
SPGSHO	S&P GSCI Heating Oil		199.48
SPGSGO	S&P GSCI Gasoil		469.33
GRNSOLAR	NASDAQ OMX Solar		1587.34

Top Stocks | Large Market Cap Energy Companies

Symbol	Name	Stock Price
BBL	BHP Group PLC	43.17
BP	BP plc	36.37
SNP	China Petroleum & Chemical Corp ADR	53.63
COP	ConocoPhillips	57.99
GE	General Electric Company	12.83
PTR	PetroChina Company Limited	44.35
PBR	PETROLEO BRASIL/ADR	14.58
SLB	Schlumberger Limited.	34.42
STO	Santos Ltd	8.24
TOT	Total SA	49.41

InFocus Stocks | Energy Companies

NBL	Noble Energy, Inc.	20.050
OXY	Occidental Petroleum Corporation	41.890
PBA	Pembina Pipeline Corp	39.310
PTR	PetroChina Company Limited	44.350
PBR	PETROLEO BRASIL/ADR	14.580
PSX	Phillips 66	90.330
PXD	Pioneer Natural Resources	137.820
PAA	Plains All American Pipeline, L.P.	16.230
SSL	Sasol Limited	15.340
SLB	Schlumberger Limited.	34.420
STO	Santos Ltd	8.240
SU	Suncor Energy Inc.	29.100
FTI	TechnipFMC PLC	16.820
TOT	Total SA	49.410
VLO	Valero Energy Corporation	84.040

Energy Market SPOT prices by global market

- European Union. EPEX <https://www.epexspot.com/en>
- Europe. Nord Pool. <https://www.nordpoolgroup.com/>
- Korea Power Exchange. <https://www.kpx.or.kr/eng/index.do>
- United Kingdom. OFGEM [Electric Market](#)
- Japan. JEPX [Japan Electric Power Exchange](#)
- California ISO <http://www.caiso.com/PriceMap/Pages/default.aspx>
- Electric Reliability Council of Texas [ERCOT real-time contour map](#)
- Southwest Power Pool [SPP real-time contour map](#)
- Midwest ISO [MISO real-time contour map](#)
- PJM Interconnection [PJM real-time contour map](#)
- New York ISO [NYISO real-time and day-ahead zonal map](#)

- ISO New England [ISO-NE real-time and day-ahead zonal map](#)

Energy Markets Reports

- United States. Short Term Energy Outlook. <https://www.eia.gov/outlooks/steo/>
- Germany | Deutschland. Week Report - [Electricity production in Germany](#)
- Mexico. [Desempeño y Evolución del MEM | Weekly Reports](#)
- United Kingdom. <https://www.ofgem.gov.uk/data-portal/retail-market-indicators>
- Iberian Energy Market (Spain - Portugal) MIBEL https://www.mibel.com/en/home_en/

Energy Maps

- U.S. Energy Mapping System <https://www.eia.gov/state/maps.php>
- European Union Energy Map. [PCI Interactive Map Viewer.](#)
- Europe Grid Map. <https://www.entsoe.eu/data/map/>
- Germany Power Plants. <https://www.energy-charts.de/osm.htm>
- Mexico Electric Market Map. <http://mem.remoideas.mx/#/>
- Korea Power Plants. <https://www.kpx.or.kr/eng/contents.do?key=307>
- Korea Transmission Map. <https://www.kpx.or.kr/eng/contents.do?key=333>

Energy Related News and Topics

- U.S. Energy Mapping System <https://www.eia.gov/state/maps.php>
- European Union Energy Map. [PCI Interactive Map Viewer.](#)
- Europe Grid Map. <https://www.entsoe.eu/data/map/>
- Germany Power Plants. <https://www.energy-charts.de/osm.htm>
- Mexico Electric Market Map. <http://mem.remoideas.mx/#/>

Links and References

- Baker Hughes
- Bentek Energy
- Bloomberg
- BNSF Railway

- California Independent System Operator (CAISO)
- Cambridge Energy Research Associates (CERA)
- Cantor Fitzgerald
- Edison Electric Institute (EEI)
- Electric Reliability Council of Texas (ERCOT)
- Energy Information Administration (EIA)
- EnvaPower
- IntercontinentalExchange (ICE)
- ISO New England (ISO-NE)
- Lawrence Berkeley National Laboratory (LBNL)
- Midwest Independent System Operator (MISO)
- National Interagency Fire Center (NIFC)
- National Oceanic & Atmospheric Administration (NOAA)
- Natural Resources Conservation Service (NRCS)
- New York Independent System Operator (NYISO)
- New York Mercantile Exchange (NYMEX)
- North American Electric Reliability Corporation (NERC)
- PJM
- Platts (including Gas Daily and Megawatt Daily)
- Public Utility Commission of Texas
- SERC Reliability Corporation (SERC)
- SNL Financial, LC
- Southwest Power Pool (SPP)
- Union Pacific
- U.S. Army Corps of Engineers (USACE)
- U.S. Department of Energy: Office of Fossil Energy
- Velocity Suite Online (Ventyx)
- Waterborne Energy
- Western Electricity Coordinating Council (WECC)
- Energie-Control GmbH
- Commission de Régulation de l'Électricité et du Gaz
- State Energy & Water Regulatory Commission
- Croatian Energy Regulatory Agency
- Cyprus Energy Regulatory Authority
- Energy Regulatory Office
- Danish Energy Regulatory Authority
- Estonian Competition Authority
- The Energy Market Authority

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- Commission de Régulation de l'Énergie
 - Federal Network Agency for Electricity, Gas, Telecommunications, Posts and Railway (Bundesnetzagentur)
 - Regulatory Authority for Energy
 - Hungarian Energy and Public Utility Regulatory Authority
 - Commission for Energy Regulation
 - Autorita per l'Energia Elettrica e il Gas
 - Public Utilities Commission
 - National Control Commission for Prices and Energy
 - Institut Luxembourgeois de Régulation
 - Malta Resources Authority
 - Authority for Consumers and Markets
 - Energy Services Regulatory Authority
 - Romanian Energy Regulatory Authority
 - Regulatory Office for Network Industries
 - Energy Agency of the Republic of Slovenia
 - National Energy Commission
 - Energy Markets Inspectorate
 - The Office of Gas and Electricity Markets

Consulting Team

Valqus global consulting services provides services to all types and scale of companies and individuals.



Founder

MSc. Rodrigo Sandoval holds 10 years of industrial experience, serving as a senior consultant for US, Mexican and European companies.

Holds experience in international oil and gas contracts, combined cycle, cogeneration commissioning and management, renewable energy projects, international energy related permitting, LNG regasification plant operation.

Worked in the design of the Electric Market trading for small and medium sized companies. Has attended the International Energy Summit, Erdol Referat, World Energy Leaders Summit, has served as an independent consultant for ProMexico and the United Nations International Industrial Development Organization - UNIDO projects in Vienna, Austria.

Rodrigo holds a master degree in Energy Management and Renewable Resources and a Master in Business Administration both by Monterrey Institute of Technology and Higher Education - ITESM. Contact Rodrigo for any question: rodrigo@valqus.com

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