

# Avangrid

# Iberdrola offers to acquire remaining Avangrid public shares at \$34.25/sh

Rating Change: NO RATING | PO: NA | Price: 36.11 USD

# Move to no rating after Iberdrola bid for remaining stock

We move to No Rating on shares of Northeast diversified utility and offshore wind developer Avangrid (AGR) after parent company and ~81.6% shareholder lberdrola (IBE) launched a tender offer for the remaining ~18.4% of shares it does not own. lberdrola's tender offer is at \$34.25/sh, a +10% premium to the \$32.08/sh last close, a +9% premium to the \$31.55 YTD average, and a -2% discount to the ~\$35/sh 52-week high. . Avangrid confirmed receipt of the offer and is evaluating it. The current transaction requires the majority of non-IBE Avangrid shareholders to approve. Investors should no longer rely on our prior ratings or price objectives.

# Not a surprise after M&A growth strategy ended

This is not an overly surprising decision after the PNM Resources (PNM) acquisition was terminated at the start of 2024. At Avangrid's IPO, the company discussed extensive earnings per share and dividend per share growth - EPS and DPS have been essentially flat. We had anticipated another Avangrid long term EPS growth guidance reset this month at the March 21<sup>st</sup> Capital Markets Day. We emphasize that our AGR estimates do not include a dividend cut or any near-term equity with the balance sheet metrics healthy.

# What regulatory approvals are required is the question

We do not believe that the proposed transaction will require extensive regulatory approval but that is the key question. Iberdrola's filing states that the proposed transaction is subject to regulatory authorizations amongst other things. The original approval of the UIL Holdings (UIL) merger was tumultuous but we assume acquiring the remaining 18% stub of shares will be easier. Connecticut specifically prefers local ownership of its utilities. The Connecticut Attorney General has been active in litigating against Avangrid for alleged failure to meet requirements of the original merger agreement. At a minimum, we expect states to open regulatory dockets (similar to Dominion East Ohio-Enbridge). Maine has been focused on foreign ownership of its regulated utilities.

Estimates (Dec) (US\$)	2022A	2023A	2024E	2025E	2026
EPS	2.33	2.00	2.14	2.36	NA
GAAP EPS	2.28	1.58	2.22	2.44	NA
EPS Change (YoY)	6.9%	-14.2%	7.0%	10.3%	NA
Consensus EPS (Bloomberg)			2.26	2.43	2.50
DPS	1.76	1.76	1.76	1.76	NA
Valuation (Dec)					
P/E	15.5x	18.1x	16.9x	15.3x	NA
GAAP P/E	15.8x	22.9x	16.3x	14.8x	NA
Dividend Yield	4.9%	4.9%	4.9%	4.9%	NA
EV / EBITDA*	16.2x	16.1x	15.6x	14.8x	NA
Free Cash Flow Yield*	-10.6%	-2.2%	-16.2%	0.1%	NA
* For full definitions of <i>IQ</i> method <sup>SM</sup> measures, see page 6.					

>> Employed by a non-US affiliate of BofAS and is not registered/qualified as a research analyst under the FINRA rules.

Refer to "Other Important Disclosures" for information on certain BofA Securities entities that take responsibility for the information herein in particular jurisdictions.

BofA Securities does and seeks to do business with issuers covered in its research reports. As a result, investors should be aware that the firm may have a conflict of interest that could affect the objectivity of this report. Investors should consider this report as only a single factor in making their investment decision.

Refer to important disclosures on page 7 to 9. Analyst Certification on page 4. Price
Objective Basis/Risk on page 4.

Timestamp: 07 March 2024 10:31AM EST

#### 07 March 2024

#### Equity

Key Changes		
(US\$)	Previous	Current
Inv. Opinion	A-3-7	-6-
Inv. Rating	UNDERPERFORM	NO RATING
Price Obj.	31.00	NA
2024E Rev (m)	8,267.6	8,262.0
2025E Rev (m)	8,548.1	8,524.5
2024E EPS	2.16	2.14
2025E EPS	2.42	2.36

#### Paul Zimbardo

Research Analyst BofAS +1 646 855 1470 paul.zimbardo@bofa.com

Julien Dumoulin-Smith Research Analyst

BofAS +1 646 855 5855 julien.dumoulin-smith@bofa.com

Peter Bisztyga >> Research Analyst MLI (UK) +44 20 7995 0535 peter.bisztyga@bofa.com

#### **Stock Data**

Price	36.11 USD
Price Objective	NA
Date Established	NA
Investment Opinion	-6-
52-Week Range	27.46 USD - 41.22 USD
Mrkt Val (mn) / Shares Out	13,986 USD / 387.3
(mn)	
Free Float	18.3%
Average Daily Value (mn)	27.38 USD
BofA Ticker / Exchange	AGR / NYS
Bloomberg / Reuters	AGR US / AGR.N
ROE (2024E)	4.2%
Net Dbt to Eqty (Dec-2023A)	49.7%
ESGMeter™	High

ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of BofA Global Research's equity investment rating, volatility risk rating, income rating, and price objective for that company. For full details, refer to "BofA ESGMeter Methodology".

# **iQ**profile<sup>™</sup> Avangrid

<i>iQ</i> method <sup>™</sup> – Bus Performance*					
(US\$ Millions)	2022A	2023A	2024E	2025E	2020
Return on Capital Employed	2.8%	2.6%	2.6%	2.6%	N/
Return on Equity	4.7%	4.0%	4.2%	4.6%	N/
Operating Margin	10.8%	12.4%	13.6%	14.1%	N/
Free Cash Flow	(1,484)	(304)	(2,269)	19	N/
<i>iQ</i> method <sup>™</sup> – <b>Quality of Earnings*</b>					
(US\$ Millions)	2022A	2023A	2024E	2025E	2020
Cash Realization Ratio	1.1x	2.4x	2.4x	2.3x	N/
Asset Replacement Ratio	2.3x	1.9x	3.6x	1.7x	N/
Tax Rate	2.4%	5.8%	NM	NM	N/
Net Debt-to-Equity Ratio	44.9%	49.7%	63.6%	66.0%	N/
Interest Cover	3.8x	3.1x	2.9x	3.0x	N/
Income Statement Data (Dec)					
(US\$ Millions)	2022A	2023A	2024E	2025E	202
Sales	7,923	8,361	8,262	8,525	N/
% Change	13.6%	5.5%	-1.2%	3.2%	N/
Gross Profit	5,467	5,757	5,919	6,156	N.A
% Change	4.0%	5.3%	2.8%	4.0%	N/
EBITDA	2,229	2,239	2,314	2,444	N/
% Change	12.8%	0.4%	3.4%	5.6%	N/
Net Interest & Other Income	(303)	(351)	(394)	(406)	N/
Net Income (Adjusted)	901	773	828	913	N/
% Change	15.4%	-14.2%	7.0%	10.3%	N/
Free Cash Flow Data (Dec) (US\$ Millions)	2022A	2023A	2024E	2025E	2026
Net Income from Cont Operations (GAAP)	821	707	859	946	NΑ
Depreciation & Amortization	1,085	1,140	1,170	1,222	N/
Change in Working Capital	0	0	0	0	N/
Deferred Taxation Charge	18	53	53	53	N/
Other Adjustments, Net	(889)	(21)	(118)	(119)	N/
Capital Expenditure	(2,519)	(2,183)	(4,234)	(2,083)	N/
Free Cash Flow	-1,484	-304	-2,269	19	N/
% Change	-4.9%	79.5%	-646.6%	NM	N/
Share / Issue Repurchase	(1)	0	0	0	N/
Cost of Dividends Paid	(681)	(681)	(681)	(681)	N/
Change in Debt	662	985	2,950	662	N/
Balance Sheet Data (Dec)	20224	20224	20245	20255	202
(US\$ Millions)	2022A	2023A	2024E	2025E	202
Cash & Equivalents	72	72	72	72	N/
Trade Receivables	1,742	1,742	1,742	1,742	N/
Other Current Assets	1,396	1,396	1,396	1,396	N/
Property, Plant & Equipment	30,994	32,037	35,101	35,961	N/
Other Non-Current Assets	6,919	6,854	6,886	6,918	N/
Total Assets	41,123	42,101	45,197	46,089	NA NA
	980	1,124 3,436	1,450	1,523	N/
Short-Term Debt	2 126	3 /I 3h	3,436	3,436	N/
Other Current Liabilities	3,436		11 (00	12 277	k i A
Other Current Liabilities Long-Term Debt	8,223	9,063	11,688	12,277	
Other Current Liabilities Long-Term Debt Other Non-Current Liabilities	8,223 8,142	9,063 8,109	8,075	8,041	N/
Other Current Liabilities Long-Term Debt Other Non-Current Liabilities Total Liabilities	8,223 8,142 <b>20,781</b>	9,063 8,109 <b>21,732</b>	8,075 <b>24,649</b>	8,041 <b>25,277</b>	NA NA NA
Other Current Liabilities Long-Term Debt Other Non-Current Liabilities	8,223 8,142	9,063 8,109	8,075	8,041	N

## **Company Sector**

Electric Utilities

#### **Company Description**

Avangrid is the publicly listed operating subsidiary of Iberdrola (over 80% ownership) and was formed through the combination of Iberdrola's 5GW+ renewable portfolio with UIL holding company's regulated utilities. The regulated utilities span across eight operating subsidiaries and four states, while the Avangrid renewables business operates in over half of the states and owns primarily wind and solar assets. AGR is developing offshore wind assets as well.

#### **Investment Rationale**

We have removed the investment opinion on the company's stock. Investors should no longer rely on our previous opinion or price objective.

#### **Stock Data**

Average Daily Volume 758,123

## **Quarterly Earnings Estimates**

	2023	2024
Q1	0.64A	0.49E
Q2	0.21A	0.54E
Q3	0.27A	0.25E
Q4	0.89A	0.86E



\* For full definitions of  $\emph{iQ}$  method  $^{\text{SM}}$  measures, see page 6.

# Cost cut synergies could be large in a transaction

A consolidation would likely have significant synergies and cost savings for the proforma entity by removing duplicative costs. Avangrid has a history of over-earning at some utilities but underearns in its largest New York business. Avangrid's guidance is to earn the allowed ROE in part through cost initiatives and "optimizations".

# Iberdrola offering a P/E premium to where IBE trades

lberdrola trades at  $13.3x\ 2026$  Consensus (IFRS) vs Avangrid trading at  $13.6x\ BofA$  (GAAP) and the \$34.25/sh bid at  $14.5x\ 2026$  BofA. US utilities trade at ~13.5x FY26.

# Avangrid has significantly underperformed peers

Per Avangrid's calculator, an equity investment in AGR shares from December 17, 2015 to March 6, 2024 has -11% total return and -1.4% compound annual decline rate. Over the past five years, AGR has underperformed utility peers -43%.

# Avangrid's board is chaired by Iberdrola CEO and seven of the fourteen Board members are currently or historically associated with IBE.

Below is the current Avangrid Board of Directors. Half are currently or formerly associated with Iberdrola. The other seven members do not have extensive regulated utility or renewable experience from their non-Avangrid roles.

Avangrid stated that the "Unaffiliated Committee" will review the proposal.

# **Exhibit 1: Avangrid Board of Directors**

Avangrid's current board of directors

Member	Avangrid Classification	Details
Ignacio S. Galán	Non-executive, non-independent	Iberdrola Executive Chairman
John E. Baldacci	Independent	Former Maine Governor
Daniel Alcain López	Non-executive, non-independent	Iberdrola Director of Group Administration & Control
Pedro Azagra Blázquez	Chief Executive Officer	Former Iberdrola Chief Development Officer
María Fátima Báñez García	Independent	Former Iberdrola subsidiary board member
Robert Duffy	Independent	Former New York Lieutenant Governor
Patricia Jacobs	Independent	Former Northern US AT&T Executive
Teresa Herbert	Independent	President of IHC Insurance Company
John L. Lahey	Independent	Quinnipiac University President Emeritus
Agustín Delgado Martín	Non-executive, non-independent	Iberdrola Innovation Director
Santiago Martínez Garrido	Non-executive, non-independent	Iberdrola Head of Legal Services
José Sáinz Armada	Non-executive, non-independent	Iberdrola Chief Finance, Control and Corporate Development Officer
Alan D. Solomont	Independent	Dean Emeritas of the Jonathan M. Tisch College. Prior US Ambassador to Spain
Camille Joseph Varlack	Independent	Chief of Staff to New York City Mayor Adams
Source: Company Filings		

BofA GLOBAL RESEARCH

#### **BofA Global Research Reports**

Title: Subtitle	Primary Author	Date Published
Avangrid: 4Q23/FY23 Beats on taxes. FY24 Higher than BofA/in-line with Street.	Paul Zimbardo	22 February 2024
Avangrid: Fireside Chat Feedback: Working to get on EPS growth track – starting with 2024	Paul Zimbardo	11 January 2024
Avangrid: Waiting for the new long-term guidance from the new CFO. 3Q23 highlights & more	Paul Zimbardo	26 October 2023
Avangrid: EPS uncertainty continues to climb: AGR keeps FY23 guide despite steep 2Q miss	Paul Zimbardo	27 July 2023
Avangrid: 2Q23 Highlights challenges: FY23 guidance under renewed pressures	Paul Zimbardo	12 July 2023
Avangrid: Refreshing our view ex. PNM: Earnings uncertainty remains underappreciated	Paul Zimbardo	21 June 2023
Avangrid: 1Q23 underwhelms but mgmt reaffirms FY23 guide. Regulatory outcomes key.	Paul Zimbardo	26 April 2023
US Utilities & IPPs: PowerPoints: PNM M&A, PEG & OGE cases, PPL-TLN, & ES/IDA/AGR/Oregon regulatory	Julien Dumoulin-Smith	02 January 2024
US Utilities & IPPs: Connecticut Legislation Negative for Utilities: Watching ES and AGR Impacts	Paul Zimbardo	06 June 2023
US Utilities & IPPs: Connecticut Regulatory & Political Profile Set to Spread? Underperform FS & AGR	Paul Zimbardo	01 May 2023



# Price objective basis & risk

#### Avangrid (AGR)

We have removed the investment opinion on the company's stock. Investors should no longer rely on our previous opinion or price objective.

# **Analyst Certification**

I, Paul Zimbardo, hereby certify that the views expressed in this research report accurately reflect my personal views about the subject securities and issuers. I also certify that no part of my compensation was, is, or will be, directly or indirectly, related to the specific recommendations or view expressed in this research report.

#### North America - Utilities and Alt Energy Coverage Cluster

Alliant Energy Corporation  Anny Technologies  ARRY  ARRYUS  Julien Dumodin-Smith Anny Technologies  ARRY  ARRYUS  Julien Dumodin-Smith Admition Sustainable Infrastructure  AY  APUS  Julien Dumodin-Smith Amount Energy Corporation  ATO  ATO ATO US  Julien Dumodin-Smith Dien Dumodin-Smith Conter-Point Energy  CNP  CNP  CNP  CNP  CNP  CNP  CNP  CN	Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
Array Technologies Abantia Sustainable Infrastructure Ay AYUS Julien Dumoulin Smith Atmos Energy Corporation ATO ATO US Julien Dumoulin Smith Counterforth Energy CNP CNP CNP US Julien Dumoulin Smith Clearway Energy CWEN CWENA US Julien Dumoulin Smith Clearway Energy CWEN CWENA US Julien Dumoulin Smith Clearway Energy CWEN CWENA US Julien Dumoulin Smith CMS US Julien Dumoulin Smith CMS LOS Juli	BUY				
Atlantica Sustainable Infrastructure Atmost Energy Corporation ATIO ATIO LA ATIO LS ALIGN Dumoulin Smith CenterPoint Energy (Comporation CenterPoint Energy (Comporation CenterPoint Energy (Comporation Clearway Energy (Comporation Clearway Energy (Comporation Clearway Energy (Comporation Clearway Energy (Comporation Comporation Consolidated Edition (Comporation Consolidated Edition) Consolidated Edition Consolidated Consolidated Consolidated Consolidated Consolidated Consolidated Consolidated Consolidated		Alliant Energy Corporation	LNT	LNT US	Julien Dumoulin-Smith
Atmos Energy Corporation CenterPoint Energy Chep CAP LS Interior Content of the C		Array Technologies	ARRY	ARRY US	Julien Dumoulin-Smith
CenterPoint Energy Chemise Energy inc Chemise Energy CMEN Chemise Energy CMEN Chemise Energy CMEN CMEN US Julien Dumoulin-Smith Chemise Energy CMS CMS US Julien Dumoulin-Smith Chemise Energy CMS CMS US Julien Dumoulin-Smith Consolidated Edison ED ED US Julien Dumoulin-Smith DIE Energy DIE Energy DIE DIE DIUS Julien Dumoulin-Smith Energy DIE Energy DIE DIE DIUS Julien Dumoulin-Smith Enlight Renewable Energy Ltd ENLT Entergy ETR ETR US Paul Zimbardo First Solar Inc ESER ESR US Julien Dumoulin-Smith Entergy ETR ETR US Julien Dumoulin-Smith Hannon Armstrong HaSI HASI US Julien Dumoulin-Smith MDU Resources Group, Inc MDU MDU US Julien Dumoulin-Smith MDU Resources Group, Inc MDU MDU US Julien Dumoulin-Smith NorthWestern Energy Group NWE NYT US Julien Dumoulin-Smith NSource Inc NY NYT US NYT US Julien Dumoulin-Smith NRS Energy NRG NRG US Julien Dumoulin-Smith NRG Energy NRG NRG US Julien Dumoulin-Smith NRG Energy NRG NRG US Julien Dumoulin-Smith Dumoulin-Smith NRG Energy NRG NRG US Julien Dumoulin-Smith PM Resources Inc PMM PM WS Julien Dumoulin-Smith PM Resources Inc PMM PM Septime PMM PM WS Julien Dumoulin-Smith PM Resources Inc PMM PM WS Julien Dumoulin-Smith PM Resources Inc PMM PM WS Julien Dumoulin-Smith PM Resources Inc PMM PM WS Julien Dumoulin-Smith PMM PM WS Julien Dumoulin-Smith PM Resources Inc PMM PM WS Julien Dumoulin-Smith PMM PM WS Julien Dumoulin-Smith PMM PM WS Julien Du		Atlantica Sustainable Infrastructure	AY	AY US	Julien Dumoulin-Smith
CenterPoint Energy Inc Charles Finergy Inc Charles Finergy Inc Clearway Finergy CMFN Clearway Finergy CMFN Clearway Finergy CMFN CMFN US Julen Dumoulin-Smith Clearway Finergy CMFN CMFN US Julen Dumoulin-Smith Clearway Finergy CMFN CMFN US Julen Dumoulin-Smith CMS Energy CMS CMS US Julen Dumoulin-Smith CMS Energy CMS CMS US Julen Dumoulin-Smith DTE Erergy DTE Energy ETR FINITUS Julen Dumoulin-Smith Finitght Renewable Finergy Ltd FINIT ENLITUS Julen Dumoulin-Smith Finitght Renewable Finergy Ltd FINIT ENLITUS Julen Dumoulin-Smith Finitght Renewable Finergy Ltd FINITUS FIRE ETRUS Paul Zimbardo Firergy ETR FIRE ETRUS Paul Zimbardo Firergy FINIT Solar Inc FIRE FIRE S Julen Dumoulin-Smith Fillence Energy FINITUS FINITUS Julen Dumoulin-Smith HASI HASIUS Julen Dumoulin-Smith HASI HASIUS Julen Dumoulin-Smith MDU Resources Group, Inc. MDU MDU US Julen Dumoulin-Smith MOUResources Group, Inc. MDU MDU US Julen Dumoulin-Smith NEsource Inc NT NT NT US Julen Dumoulin-Smith NEsource Inc NN NN NSOurce Inc NN NN NSOurce Inc NN NN NSOurce Inc NN NN NSOurce Inc NN NR NR FIRES NR NR NR NR NR Supplem Dumoulin-Smith NR NR FIRES NR		Atmos Energy Corporation	ATO	ATO US	Julien Dumoulin-Smith
Clearway Energy CWENA CREAM CWEN LIS Julien Dumoculin-Smith CREATERY CMS Fergy CMS CMS US Julien Dumoculin-Smith Consolidated Folson FD FE DE US Julien Dumoculin-Smith DTE Energy DTE Energy DTE Energy DTE Energy DTE Energy Englith Renewable Energy Ltd ENLT ENLT ENLT S Julien Dumoculin-Smith Enlight Renewable Energy Ltd ENLT Enlight Renewable Energy Ltd ENLT Enlight Renewable Energy Ltd ENLT Enlight Renewable Energy Ltd Enlight Renewable Ltd Enlight Renewable Energy Ltd Enlight Renewable Energy Ltd Enlight Renewable Energy Ltd Enligh		== :	CNP	CNP US	Julien Dumoulin-Smith
Clearway Energy		Cheniere Energy Inc	LNG	LNG US	Julien Dumoulin-Smith
CMS Energy Consolidated Edison ED ED ED ED S Julien Dumoulin-Smith DTE Energy DTE Enlight Renewable Energy Ltd ENLT ENLT IS Julien Dumoulin-Smith Enlight Renewable Energy Ltd ENLT ENLT IS Julien Dumoulin-Smith Enlight Renewable Energy Ltd ENLT ENLT IS Julien Dumoulin-Smith Enlight Renewable Energy Ltd ENLT ENLT IS Julien Dumoulin-Smith Entergy ETR ETR US FSLR SSLR IS Julien Dumoulin-Smith Entergy FIRS Solar, Inc FSLR FSLR IS Julien Dumoulin-Smith Fluence Energy ENLO FINC IS Julien Dumoulin-Smith Harnon Armstrong HASI MDU MDU US Julien Dumoulin-Smith MDU Resources Group, Inc. MDU MDU US Julien Dumoulin-Smith Noctree Inc NXT NXT US Julien Dumoulin-Smith NiSource Inc NXI NIUS Julien Dumoulin-Smith NiSource Inc NXI NNET US Julien Dumoulin-Smith NRE Energy NWE NNEE NRE Energy NNE NRE RENE SJULIEN Dumoulin-Smith NRE Energy NNE NRE PGE Corporation PCG PCG US Julien Dumoulin-Smith DIM Resources Inc PMM PNN Resources Inc PMM PNN US Julien Dumoulin-Smith PNN Resources Inc PMM PNN US Julien Dumoulin-Smith DIM Dumoulin-Smith Dumoulin-		Clearway Energy	CWENA	CWEN/A US	Julien Dumoulin-Smith
Consolicitated Edison		Clearway Energy	CWEN	CWEN US	Julien Dumoulin-Smith
DTE Energy		CMS Energy	CMS	CMS US	Julien Dumoulin-Smith
Enlight Renewable Energy Ltd		Consolidated Edison	ED	ED US	Julien Dumoulin-Smith
Enlight Renewable Energy Ltd		DTE Energy	DTE	DTE US	Julien Dumoulin-Smith
Enlight Renewable Energy Ltd		Enlight Renewable Energy Ltd	ENLT	ENLT US	Julien Dumoulin-Smith
Entergy First Solar, Inc. Fist Solar, In			XENLF	ENLT IT	Julien Dumoulin-Smith
First Solar, Inc. Fluence Energy FLNC FLNCUS Julien Dumoulin-Smith Hannon Armstrong HASI MDU Resources Group, Inc. MDU MDU MDU US Julien Dumoulin-Smith Nextracker Inc. NXT NXT US Julien Dumoulin-Smith NiSource Inc NI NISource Inc NI NISOurce Inc NRC Energy NRC NRC US Julien Dumoulin-Smith PASE Corporation PCG PCG PCG US Julien Dumoulin-Smith PNM Resources Inc. PNM PNM Resources Inc. PNM PNM PNM US Julien Dumoulin-Smith PPL Corporation PPL PPL US Paul Zimbardo PPL PPL US Paul Zimbardo PPL Sempra SRE SRE US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith NEUTRAL  SUN RUN RUN RUN US Julien Dumoulin-Smith TPL Composites TPLC TPLC US Julien Dumoulin-Smith TPL US Algonquin Power & Utilities Corp AQN		· · · · · · · · · · · · · · · · · · ·	ETR	ETR US	Paul Zimbardo
Hannon Armstrong MDU Resources Group, Inc. MDU MDU US Julien Dumoulin-Smith MDU Resources Group, Inc. MNXT NXT US Julien Dumoulin-Smith NSSource Inc NST NST US Julien Dumoulin-Smith NSSource Inc NI NSOurce Inc NNH NRE NWE US Julien Dumoulin-Smith NorthWestern Energy Group NWE NRG NRG US Julien Dumoulin-Smith NRG Energy NRG NRG US Julien Dumoulin-Smith PG&E Corporation PGG PGG PCG US Julien Dumoulin-Smith PNM Resources Inc PNM PNM US Julien Dumoulin-Smith PPL Corporation PPL PPL US Paul Zimbardo PPL PPL US Paul Zimbardo Public Service Enterprise Group PEG PEG DEG US Julien Dumoulin-Smith Sempra SRE SRE US Julien Dumoulin-Smith Sempra SRE SRE US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith SunRun RUN RUN RUN US Julien Dumoulin-Smith TPI Composites TPIC TPIC US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN AQN QN US Paul Zimbardo Alacas YALA ALA C Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith Ameresco AMRC MRC US Julien Dumoulin-Smith Ameresco AMRC US Julien Dum			FSLR	FSLR US	Julien Dumoulin-Smith
Hannon Armstrong MDU Resources Group, Inc. MDU MDU US Julien Dumoulin-Smith MDU Resources Group, Inc. MNXT NXT US Julien Dumoulin-Smith NSSource Inc NST NST US Julien Dumoulin-Smith NSSource Inc NI NSOurce Inc NNH NRE NWE US Julien Dumoulin-Smith NorthWestern Energy Group NWE NRG NRG US Julien Dumoulin-Smith NRG Energy NRG NRG US Julien Dumoulin-Smith PG&E Corporation PGG PGG PCG US Julien Dumoulin-Smith PNM Resources Inc PNM PNM US Julien Dumoulin-Smith PPL Corporation PPL PPL US Paul Zimbardo PPL PPL US Paul Zimbardo Public Service Enterprise Group PEG PEG DEG US Julien Dumoulin-Smith Sempra SRE SRE US Julien Dumoulin-Smith Sempra SRE SRE US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith SunRun RUN RUN RUN US Julien Dumoulin-Smith TPI Composites TPIC TPIC US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN AQN QN US Paul Zimbardo Alacas YALA ALA C Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith Ameresco AMRC MRC US Julien Dumoulin-Smith Ameresco AMRC US Julien Dum			FLNC	FLNC US	
MDU Resources Group, Inc.  Nextracker Inc  NEXT  NEXT  NIXT  NEXT  NIXT  NEXT  NIXT		63	HASI	HASI US	Julien Dumoulin-Smith
Nextracker Inc   NXT   NXT US   Julien Dumoulin-Smith		ů .	MDU	MDU US	Julien Dumoulin-Smith
NorthWestern Energy Group NRG NRG US Julien Dumoulin-Smith NRG Energy NRG NRG US Julien Dumoulin-Smith PG&E Corporation PG&E Corporation PG&E Corporation PCG PCG US Julien Dumoulin-Smith PNM Resources Inc. PNM PNM US Julien Dumoulin-Smith PNL Oroporation PPL PPL US Paul Zimbardo Public Service Enterprise Group PEG PEG US Julien Dumoulin-Smith Sempra SRE SRE US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith SunRun RUN US Julien Dumoulin-Smith TPI Composites TPIC TPIC TPIC US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Xcel Energy Inc XEL XEL XEL US Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN AQN US Paul Zimbardo Algonquin Power & Utilities Corp Alexa Areer Aree US Julien Dumoulin-Smith Ameresco ARE Aree Aree US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith Ameresco AMRC CAMRC US Julien Dumoulin-Smith ChargePoint Holdings COnstellation Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Ersential Utilities WRM EMA CN Julien Dumoulin-Smith Evergy, Inc EWRG EVRG US Julien Dumoulin-Smith			NXT	NXT US	Julien Dumoulin-Smith
NorthWestern Energy Group NRG NRG US Julien Dumoulin-Smith NRG Energy NRG NRG US Julien Dumoulin-Smith PG&E Corporation PG&E Corporation PG&E Corporation PCG PCG US Julien Dumoulin-Smith PNM Resources Inc. PNM PNM US Julien Dumoulin-Smith PNL Oroporation PPL PPL US Paul Zimbardo Public Service Enterprise Group PEG PEG US Julien Dumoulin-Smith Sempra SRE SRE US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith SunRun RUN US Julien Dumoulin-Smith TPI Composites TPIC TPIC TPIC US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Xcel Energy Inc XEL XEL XEL US Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN AQN US Paul Zimbardo Algonquin Power & Utilities Corp Alexa Areer Aree US Julien Dumoulin-Smith Ameresco ARE Aree Aree US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith Ameresco AMRC CAMRC US Julien Dumoulin-Smith ChargePoint Holdings COnstellation Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Ersential Utilities WRM EMA CN Julien Dumoulin-Smith Evergy, Inc EWRG EVRG US Julien Dumoulin-Smith		NiSource Inc	NI	NI US	Julien Dumoulin-Smith
NRG Energy PG&E Corporation PCG PCG US Julien Dumoulin-Smith PNM Resources Inc. PNM PMM US Julien Dumoulin-Smith PPNM Resources Inc. PNM PMM US PPL Corporation PPL PPL US Paul Zimbardo Public Service Enterprise Group PEG PEG US Julien Dumoulin-Smith PPL Corporation PPL PPL US Paul Zimbardo Public Service Enterprise Group PEG PEG US Julien Dumoulin-Smith Sempra SRE SRE US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith SunRun RUN RUN RUN US Julien Dumoulin-Smith TPI Composites TPIC TPIC TPIC US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Xcel Energy Inc XEL XEL US Julien Dumoulin-Smith Xcel Energy Inc XEL XEL US Julien Dumoulin-Smith NEUTRAL  AES AES AES AES US Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN AQN US Paul Zimbardo Algonquin Power & Utilities Corp YAQN AQN US Paul Zimbardo AltaGas AHAL ALA CN Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith American Electric Power AEP AEP US Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp UK DUK US Julien Dumoulin-Smith Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Essential Utilities Evergy, Inc		NorthWestern Energy Group			•
PG&E Corporation PG&E Corporation PMM Resources Inc. PMM Resources Inc. PMM PMM US Julien Dumoulin-Smith PPL Corporation PPL PPL US Paul Zimbardo Public Service Enterprise Group PEG PEG US Julien Dumoulin-Smith Sempra SRE SRE US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA NOVA US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith TPI Composites TPIC TPIC US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Xcel Energy Inc  NEUTRAL  AES AES AES US Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN AQN US Paul Zimbardo Algonquin Power & Utilities Corp AQN AQN US Paul Zimbardo AltaGas YALA ALA CN Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith Ameresco AMRC AMRCUS Julien Dumoulin-Smith Ameresco AMRC AMRCUS Julien Dumoulin-Smith American Electric Power AEP AEP US Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp CEG CEG US Paul Zimbardo Duke Energy Duke Energy Duke Energy Duke Energy Duke Dumoulin-Smith Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc			NRG	NRG US	Julien Dumoulin-Smith
PNM Resources Inc. PNL PPL S Julien Dumoulin-Smith PPL Corporation PPL PPL US Paul Zimbardo Public Service Enterprise Group PEG PEG US Julien Dumoulin-Smith Sempra SRE SRE US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith PPL Composites TPIC TPIC US Julien Dumoulin-Smith TPI Composites TPIC TPIC US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Vistra Corp VST XEL XEL US Julien Dumoulin-Smith Xcel Energy Inc XEL XEL US Julien Dumoulin-Smith NEUTRAL  AES AES AES US Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN AQN US Paul Zimbardo Algonquin Power & Utilities Corp YAQN AQN CN Paul Zimbardo AltaGas YALA ALA CN Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith American Electric Power AEP AEP US Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Emera Inc YEMA EMA CN Julien Dumoulin-Smith Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc			PCG	PCG US	Julien Dumoulin-Smith
Public Service Enterprise Group Sempra SRE SRE US Julien Dumoulin-Smith Sempra SRE SRE US Julien Dumoulin-Smith Suncova Energy NOVA NOVA US Julien Dumoulin-Smith SunRun RUN RUN US Julien Dumoulin-Smith TPI Composites TPIC TPIC US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Vistra Corp XEL XEL US Julien Dumoulin-Smith NEUTRAL  AES AES AES AES AES AES AES AES US Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN Algonquin Power & Utilities Corp Algonquin Power & Utilities Corp AltaGas AltaGas YALA ALA CN Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith American Electric Power AEP AEP US Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Emera Inc YEMA EMA CN Julien Dumoulin-Smith Emera Inc WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc			PNM	PNM US	Julien Dumoulin-Smith
Sempra SRE SRE US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith SunRun RUN RUN US Julien Dumoulin-Smith TPI Composites TPIC TPIC US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Xcel Energy Inc XEL XEL US Julien Dumoulin-Smith Xcel Energy Inc XEL XEL US Julien Dumoulin-Smith NEUTRAL  MEUTRAL  AES AES AES AES Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN AQN US Paul Zimbardo Algonquin Power & Utilities Corp YAQN AQN CN Paul Zimbardo AltaGas YALA ALA CN Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith American Electric Power AEP AEP S Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc		PPL Corporation	PPL	PPL US	Paul Zimbardo
Sempra SRE SRE US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith Sunnova Energy NOVA NOVA US Julien Dumoulin-Smith SunRun RUN RUN US Julien Dumoulin-Smith TPI Composites TPIC TPIC US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Xcel Energy Inc XEL XEL US Julien Dumoulin-Smith Xcel Energy Inc XEL XEL US Julien Dumoulin-Smith NEUTRAL  AES AES AES US Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN AQN US Paul Zimbardo Algonquin Power & Utilities Corp YAQN AQN CN Paul Zimbardo AltaGas YALA ALA CN Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith American Electric Power AEP AEP US Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc		Public Service Enterprise Group	PEG	PEG US	Julien Dumoulin-Smith
Sunnova Energy  NOVA  NOVA US  Julien Dumoulin-Smith SunRun  TPI Composites  TPIC  TPIC US  Julien Dumoulin-Smith Vistra Corp  VST  VST US  Julien Dumoulin-Smith Xcel Energy Inc  XEL  XEL US  Julien Dumoulin-Smith Xcel Energy Inc  NEUTRAL  AES  AES  AES  AES US  Julien Dumoulin-Smith Algonquin Power & Utilities Corp  AQN  AQN US  Paul Zimbardo  Algonquin Power & Utilities Corp  YAQN  AQN CN  AltaGas  YALA  ALA CN  Cameron Lochridge  Ameren Corporation  AEE  AEE US  Julien Dumoulin-Smith Ameresco  AMRC  AMRC US  Julien Dumoulin-Smith Ameresco  AMRC US  Julien Dumoulin-Smith ChargePoint Holdings  CHPT  CHPT US  Cameron Lochridge  Constellation Energy Corp  CEG  CEG US  Paul Zimbardo  AMRC US  Julien Dumoulin-Smith ChargePoint Holdings  CHPT  CHPT US  Cameron Lochridge  Constellation Energy Corp  CEG  CEG US  Paul Zimbardo  DUK  DUK US  Julien Dumoulin-Smith  Emera Inc  YEMA  EMA CN  Julien Dumoulin-Smith  Emera Inc  Essential Utilities  WTRG  WTRG US  Julien Dumoulin-Smith  Evergy, Inc  EVRG  EVRG US  Julien Dumoulin-Smith			SRE	SRE US	•
SunRun RUN RUN S Julien Dumoulin-Smith TPI Composites TPIC TPIC US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Xcel Energy Inc  NEUTRAL  AES AES AES US Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN AQN US Paul Zimbardo Algonquin Power & Utilities Corp YAQN AQN CN Paul Zimbardo AltaGas YALA ALA CN Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith American Electric Power AEP AEP US Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp Duke Energy DUK DUK US Julien Dumoulin-Smith Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc		•	NOVA	NOVA US	
TPIC TPIC US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Vistra Corp VST VST US Julien Dumoulin-Smith Xcel Energy Inc XEL XEL US Julien Dumoulin-Smith XEL XEL US Julien Dumoulin-Smith NEUTRAL  ***RETTICL***  **AES*** AES		63			•
Vistra Corp XCel Energy Inc XEL XEL XEL US Julien Dumoulin-Smith Xcel Energy Inc  NEUTRAL  AES AES AES AES US Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN Algonquin Power & Utilities Corp AltaGas AltaGas Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith American Electric Power AEP AEP US Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp CEG COnstellation Energy Corp DUK DUK US Julien Dumoulin-Smith Emera Inc Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc		TPI Composites	TPIC	TPIC US	•
NEUTRAL       XEL       XEL US       Julien Dumoulin-Smith         NEUTRAL       AES       AES US       Julien Dumoulin-Smith         Algonquin Power & Utilities Corp       AQN       AQN US       Paul Zimbardo         Algonquin Power & Utilities Corp       YAQN       AQN CN       Paul Zimbardo         AltaGas       YALA       ALA CN       Cameron Lochridge         Ameren Corporation       AEE       AEE US       Julien Dumoulin-Smith         Ameresco       AMRC       AMRC US       Julien Dumoulin-Smith         American Electric Power       AEP       AEP US       Julien Dumoulin-Smith         ChargePoint Holdings       CHPT       CHPT US       Cameron Lochridge         Constellation Energy Corp       CEG       CEG US       Paul Zimbardo         Duke Energy       DUK       DUK US       Julien Dumoulin-Smith         Emera Inc       YEMA       EMA CN       Julien Dumoulin-Smith         Essential Utilities       WTRG       WTRG US       Julien Dumoulin-Smith         Evergy, Inc       EVRG       EVRG US       Julien Dumoulin-Smith			VST	VST US	Julien Dumoulin-Smith
NEUTRAL  AES AES AES AES US Julien Dumoulin-Smith Algonquin Power & Utilities Corp AQN AQN US AQN US Paul Zimbardo Algonquin Power & Utilities Corp YAQN AQN CN Paul Zimbardo AltaGas YALA ALA CN Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Emera Inc Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc EVRG EVRG EVRG US Julien Dumoulin-Smith			XEL	XEL US	
Algonquin Power & Utilities Corp Algonquin Power & Utilities Corp Algonquin Power & Utilities Corp YAQN AQN CN Paul Zimbardo AltaGas YALA ALA CN Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith American Electric Power AEP AEP US Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Emera Inc Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc	NEUTRAL				•
Algonquin Power & Utilities Corp Algonquin Power & Utilities Corp Algonquin Power & Utilities Corp YAQN AQN CN Paul Zimbardo AltaGas YALA ALA CN Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith American Electric Power AEP AEP US Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Emera Inc Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc		AES	AES	AES US	Julien Dumoulin-Smith
Algonquin Power & Utilities Corp YAQN AltaGas YALA ALA CN Cameron Lochridge Ameren Corporation AEE AEE US Julien Dumoulin-Smith American Electric Power AEP Constellation Energy Corp Duke Energy Duk Emera Inc Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Cameron Lochridge Cameron Lochridge CUPT CHPT US Cameron Lochridge CEG US Paul Zimbardo Duk US Julien Dumoulin-Smith DUK US Julien Dumoulin-Smith EMA CN Julien Dumoulin-Smith EMA CN Julien Dumoulin-Smith EMA CN Julien Dumoulin-Smith EWTRG WTRG US Julien Dumoulin-Smith EVRG US Julien Dumoulin-Smith		Algonquin Power & Utilities Corp			
AltaGas YALA ALA CN Cameron Lochridge  Ameren Corporation AEE AEE US Julien Dumoulin-Smith  Ameresco AMRC AMRC US Julien Dumoulin-Smith  American Electric Power AEP AEP US Julien Dumoulin-Smith  ChargePoint Holdings CHPT CHPT US Cameron Lochridge  Constellation Energy Corp CEG CEG US Paul Zimbardo  Duke Energy DUK DUK US Julien Dumoulin-Smith  Emera Inc YEMA EMA CN Julien Dumoulin-Smith  Essential Utilities WTRG WTRG US Julien Dumoulin-Smith  Evergy, Inc EVRG EVRG US Julien Dumoulin-Smith		• ,			
Ameren Corporation AEE AEE US Julien Dumoulin-Smith Ameresco AMRC AMRC US Julien Dumoulin-Smith American Electric Power AEP AEP US Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp CEG CEG US Paul Zimbardo DUK DUK US Julien Dumoulin-Smith Emera Inc YEMA EMA CN Julien Dumoulin-Smith Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc EVRG EVRG US Julien Dumoulin-Smith		0 1	-	•	
Ameresco AMRC AMRC US Julien Dumoulin-Smith American Electric Power AEP AEP US Julien Dumoulin-Smith ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Emera Inc YEMA EMA CN Julien Dumoulin-Smith Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc EVRG EVRG US Julien Dumoulin-Smith					ě .
American Electric Power ChargePoint Holdings CHPT CHPT US Cameron Lochridge Constellation Energy Corp CEG CEG US Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Emera Inc Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc EVRG EVRG US Julien Dumoulin-Smith EVRG US Julien Dumoulin-Smith EVRG US Julien Dumoulin-Smith					•
ChargePoint Holdings Constellation Energy Corp CEG CUS Paul Zimbardo Duke Energy DUK DUK US Julien Dumoulin-Smith Emera Inc Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc EVRG EVRG EVRG US Julien Dumoulin-Smith EVRG Julien Dumoulin-Smith EVRG Julien Dumoulin-Smith Julien Dumoulin-Smith EVRG Julien Dumoulin-Smith					•
Constellation Energy Corp CEG CEG US Paul Zimbardo DUK US Julien Dumoulin-Smith Emera Inc Essential Utilities WTRG WTRG US Julien Dumoulin-Smith WTRG US Julien Dumoulin-Smith Evergy, Inc EVRG EVRG US Julien Dumoulin-Smith					
Duke EnergyDUKDUK USJulien Dumoulin-SmithEmera IncYEMAEMA CNJulien Dumoulin-SmithEssential UtilitiesWTRGWTRG USJulien Dumoulin-SmithEvergy, IncEVRGEVRG USJulien Dumoulin-Smith		ě ě			
Emera Inc YEMA EMA CN Julien Dumoulin-Smith Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc EVRG EVRG US Julien Dumoulin-Smith		0, 1			
Essential Utilities WTRG WTRG US Julien Dumoulin-Smith Evergy, Inc EVRG EVRG US Julien Dumoulin-Smith					•
Evergy, Inc EVRG EVRG US Julien Dumoulin-Smith					
, , , , , , , , , , , , , , , , , , ,					•
		Exelon	EXC	EXC US	Paul Zimbardo



#### North America - Utilities and Alt Energy Coverage Cluster

Investment rating	Company	BofA Ticker	Bloomberg symbol	Analyst
	Generac Holdings Inc.	GNRC	GNRC US	Julien Dumoulin-Smith
	Hydro One	YH	H CN	Julien Dumoulin-Smith
	Idacorp	IDA	IDA US	Paul Zimbardo
	Maxeon Solar Technologies	MAXN	MAXN US	Julien Dumoulin-Smith
	NextEra Energy	NEE	NEE US	Julien Dumoulin-Smith
	NextEra Energy Partners	NEP	NEP US	Julien Dumoulin-Smith
	OGE Energy Corp	OGE	OGE US	Julien Dumoulin-Smith
	Ormat Technologies	ORA	ORA US	Julien Dumoulin-Smith
	Pinnacle West	PNW	PNW US	Julien Dumoulin-Smith
	Portland General Electric Company	POR	POR US	Julien Dumoulin-Smith
	Southern Company	SO	SO US	Julien Dumoulin-Smith
	Southwest Gas Holdings	SWX	SWX US	Julien Dumoulin-Smith
	TransAlta Corp	TAC	TAC US	Julien Dumoulin-Smith
	TransAlta Corporation	YTA	TA CN	Julien Dumoulin-Smith
UNDEDDEDECOM				,
UNDERPERFORM	All		415.116	LIE D. H. C. III
	Allete Inc	ALE	ALE US	Julien Dumoulin-Smith
	American Water Works	AWK	AWK US	Julien Dumoulin-Smith
	Avista	AVA	AVA US	Julien Dumoulin-Smith
	Black Hills Corporation	BKH	BKH US	Julien Dumoulin-Smith
	Bloom Energy	BE	BE US	Julien Dumoulin-Smith
	Dominion Energy	D	D US	Paul Zimbardo
	Edison International	EIX	EIX US	Paul Zimbardo
	Enphase Energy	ENPH	ENPH US	Julien Dumoulin-Smith
	Eversource Energy	ES	ES US	Paul Zimbardo
	FirstEnergy	FE	FE US	Julien Dumoulin-Smith
	Fortis	YFTS	FTS CN	Julien Dumoulin-Smith
	Fortis Inc	FTS	FTS US	Julien Dumoulin-Smith
	FREYR Battery	FREY	FREY US	Julien Dumoulin-Smith
	FTC Solar	FTCI	FTCI US	Julien Dumoulin-Smith
	Hawaiian Electric Industries	HE	HE US	Julien Dumoulin-Smith
	MGE Energy	MGEE	MGEE US	Julien Dumoulin-Smith
	New Jersey Resources Corp	NJR	NJR US	Julien Dumoulin-Smith
	ONE Gas, Inc.	OGS	OGS US	Julien Dumoulin-Smith
	SolarEdge Technologies	SEDG	SEDG US	Julien Dumoulin-Smith
	Spire	SR	SR US	Julien Dumoulin-Smith
	Stem, Inc.	STEM	STEM US	Julien Dumoulin-Smith
	SunPower Corp.	SPWR	SPWR US	Julien Dumoulin-Smith
	UGI Corp.	UGI	UGI US	Julien Dumoulin-Smith
	WEC Energy Group Inc	WEC	WEC US	Julien Dumoulin-Smith
RVW				
N T TT	Now Fortross Enorgy	NFE	NFE US	Camaran Lachridge
	New Fortress Energy	INFE	INFE US	Cameron Lochridge



# **IQ**method<sup>™</sup> Measures Definitions

Business Performance	Numerator	Denominator
Return On Capital Employed	NOPAT = (EBIT + Interest Income) $\times$ (1 - Tax Rate) + Goodwill Amortization	Total Assets — Current Liabilities + ST Debt + Accumulated Goodwill
		Amortization
Return On Equity	Net Income	Shareholders' Equity
Operating Margin	Operating Profit	Sales
Earnings Growth	Expected 5 Year CAGR From Latest Actual	N/A
Free Cash Flow	Cash Flow From Operations — Total Capex	N/A
Quality of Earnings	Numerator	Denominator
Cash Realization Ratio	Cash Flow From Operations	Net Income
Asset Replacement Ratio	Capex	Depreciation
Tax Rate	Tax Charge	Pre-Tax Income
Net Debt-To-Equity Ratio	Net Debt = Total Debt - Cash & Equivalents	Total Equity
Interest Cover	EBIT	Interest Expense
Valuation Toolkit	Numerator	Denominator
Price / Earnings Ratio	Current Share Price	Diluted Earnings Per Share (Basis As Specified)
Price / Book Value	Current Share Price	Shareholders' Equity / Current Basic Shares
Dividend Yield	Annualised Declared Cash Dividend	Current Share Price
Free Cash Flow Yield	Cash Flow From Operations – Total Capex	Market Cap = Current Share Price × Current Basic Shares
Enterprise Value / Sales	EV = Current Share Price × Current Shares + Minority Equity + Net Debt +	Sales
, , , , , , , , , , , , , , , , , , ,	Other LT Liabilities	

EV / EBITDA Enterprise Value Basic EBIT + Depreciation + Amortization

\*\*Memethod 3\*\*\*is the set of BofA Global Research standard measures that serve to maintain global consistency under three broad headings: Business Performance, Quality of Earnings, and validations. The key features of iQmethod are: A consistently structured, detailed, and transparent methodology. Guidelines to maximize the effectiveness of the comparative valuation process, and to identify some common pitfalls.

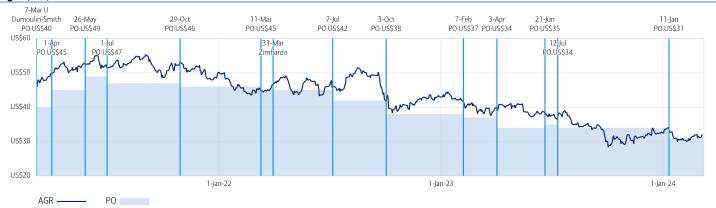
\*\*Redatabase\*\* is our real-time global research database that is sourced directly from our equity analysts' earnings models and includes forecasted as well as historical data for income statements, balance sheets, and cash flow statements for companies covered by BofA Global Research.

**IQ**profile<sup>≤M</sup>, **IQ**method<sup>≤M</sup> are service marks of Bank of America Corporation. **IQ**database® is a registered service mark of Bank of America Corporation.

# **Disclosures**

# **Important Disclosures**

#### Avangrid (AGR) Price Chart



B: Buy, N: Neutral, U: Underperform, PO: Price Objective, NA: No longer valid, NR: No Rating

The Investment Opinion System is contained at the end of the report under the heading "Fundamental Equity Opinion Key". Dark grey shading indicates the security is restricted with the opinion suspended. Medium grey shading indicates the security is under review with the opinion withdrawn. Light grey shading indicates the security is not covered. Chart is current as of a date no more than one trading day prior to the date of the report.

#### Equity Investment Rating Distribution: Utilities Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	72	46.45%	Buy	52	72.22%
Hold	45	29.03%	Hold	32	71.11%
Sell	38	24.52%	Sell	21	55.26%

#### Equity Investment Rating Distribution: Global Group (as of 31 Dec 2023)

Coverage Universe	Count	Percent	Inv. Banking Relationships R1	Count	Percent
Buy	1895	53.62%	Buy	1083	57.15%
Hold	832	23.54%	Hold	454	54.57%
Sell	807	22.84%	Sell	383	47.46%

R1 Issuers that were investment banking clients of BofA Securities or one of its affiliates within the past 12 months. For purposes of this Investment Rating Distribution, the coverage universe includes only stocks. A stock rated Neutral is included as a Hold, and a stock rated Underperform is included as a Sell.

FUNDAMENTAL EQUITY OPINION KEY: Opinions include a Volatility Risk Rating, an Investment Rating and an Income Rating. VOLATILITY RISK RATINGS, indicators of potential price fluctuation, are: A - Low, B - Medium and C - High. INVESTMENT RATINGS reflect the analyst's assessment of both a stock's absolute total return potential as well as its attractiveness for investment relative to other stocks within its Coverage Cluster (defined below). Our investment ratings are: 1 - Buy stocks are expected to have a total return of at least 10% and are the most attractive stocks in the coverage cluster; 2 - Neutral stocks are expected to remain flat or increase in value and are less attractive than Buy rated stocks and 3 - Underperform stocks are the least attractive stocks in a coverage cluster. An investment rating of 6 (No Rating) indicates that a stock is no longer trading on the basis of fundamentals. Analysts assign investment ratings considering, among other things, the 0-12 month total return expectation for a stock and the firm's guidelines for ratings dispersions (shown in the table below). The current price objective for a stock should be referenced to better understand the total return expectation at any given time. The price objective reflects the analyst's view of the potential price appreciation (depreciation).

# Investment rating Total return expectation (within 12-month period of date of initial rating) Ratings dispersion guidelines for coverage cluster<sup>R2</sup>

Buy	≥ 10%	≤ /0%
Neutral	≥ 0%	≤ 30%
Jnderperform	N/A	≥ 20%

R2Ratings dispersions may vary from time to time where BofA Global Research believes it better reflects the investment prospects of stocks in a Coverage Cluster.

INCOME RATINGS, indicators of potential cash dividends, are: 7 - same/higher (dividend considered to be secure), 8 - same/lower (dividend not considered to be secure) and 9 - pays no cash dividend. Coverage Cluster is comprised of stocks covered by a single analyst or two or more analysts sharing a common industry, sector, region or other classification(s). A stock's coverage cluster is included in the most recent BofA Global Research report referencing the stock.

Price Charts for the securities referenced in this research report are available on the Price Charts website, or call 1-800-MERRILL to have them mailed.

BofAS or one of its affiliates acts as a market maker for the equity securities recommended in the report: Avangrid.

The issuer is or was, within the last 12 months, an investment banking client of BofAS and/or one or more of its affiliates: Avangrid.

BofAS or an affiliate has received compensation from the issuer for non-investment banking services or products within the past 12 months: Avangrid.

The issuer is or was, within the last 12 months, a non-securities business client of BofAS and/or one or more of its affiliates: Avangrid.

BofAS or an affiliate has received compensation for investment banking services from this issuer within the past 12 months: Avangrid.

BofAS or an affiliate expects to receive or intends to seek compensation for investment banking services from this issuer or an affiliate of the issuer within the next three months: Avangrid. BofAS or one of its affiliates is willing to sell to, or buy from, clients the common equity of the issuer on a principal basis: Avangrid.

The issuer is or was, within the last 12 months, a securities business client (non-investment banking) of BofAS and/or one or more of its affiliates: Avangrid.

BofA Global Research personnel (including the analyst(s) responsible for this report) receive compensation based upon, among other factors, the overall profitability of Bank of America



U

Corporation, including profits derived from investment banking. The analyst(s) responsible for this report may also receive compensation based upon, among other factors, the overall profitability of the Bank's sales and trading businesses relating to the class of securities or financial instruments for which such analyst is responsible.

# **Other Important Disclosures**

From time to time research analysts conduct site visits of covered issuers. BofA Global Research policies prohibit research analysts from accepting payment or reimbursement for travel expenses from the issuer for such visits.

Prices are indicative and for information purposes only. Except as otherwise stated in the report, for any recommendation in relation to an equity security, the price referenced is the publicly traded price of the security as of close of business on the day prior to the date of the report or, if the report is published during intraday trading, the price referenced is indicative of the traded price as of the date and time of the report and in relation to a debt security (including equity preferred and CDS), prices are indicative as of the date and time of the report and are from various sources including BofA Securities trading desks.

The date and time of completion of the production of any recommendation in this report shall be the date and time of dissemination of this report as recorded in the report timestamp.

Recipients who are not institutional investors or market professionals should seek the advice of their independent financial advisor before considering information in this report in connection with any investment decision, or for a necessary explanation of its contents.

Officers of BofAS or one or more of its affiliates (other than research analysts) may have a financial interest in securities of the issuer(s) or in related investments. Refer to BofA Global Research policies relating to conflicts of interest.

'BofA Securities' includes BofA Securities, Inc. ('BofAS') and its affiliates. Investors should contact their BofA Securities representative or Merrill Global Wealth Management financial advisor if they have questions concerning this report or concerning the appropriateness of any investment idea described herein for such investor. 'BofA Securities' is a global brand for BofA Global Research.

#### Information relating to Non-US affiliates of BofA Securities and Distribution of Affiliate Research Reports:

BofAS and/or Merrill Lynch, Pierce, Fenner & Smith Incorporated ("MLPF&S") may in the future distribute, information of the following non-US affiliates in the US (short name: legal name, regulator): Merrill Lynch (South Africa): Merrill Lynch South Africa (Pty) Ltd., regulated by The Financial Service Board; MLI (UK): Merrill Lynch International, regulated by the Financial Conduct Authority (FCA) and the Prudential Regulation Authority (PRA); BofASE (France): BofA Securities Europe SA is authorized by the Autorité de Contrôle Prudential et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers (AMF). BofA Securities Europe SA ("BofASE") with registered address at 51, rue La Boétie, 75008 Paris is registered under no 842 602 690 RCS Paris. In accordance with the provisions of French Code Monétaire et Financier (Monetary and Financial Code), BofASE is an établissement de crédit et d'investissement (credit and investment institution) that is authorised and supervised by the European Central Bank and the Autorité de Contrôle Prudentiel et de Résolution (ACPR) and regulated by the ACPR and the Autorité des Marchés Financiers. BofASE's share capital can be found at www.bofaml.com/BofASEdisclaimer; BofA Europe (Milan): Bank of America Europe Designated Activity Company, Milan Branch, regulated by the Bank of Italy, the European Central Bank (ECB) and the Central Bank of Ireland (CBI); BofA Europe (Frankfurt): Bank of America Europe Designated Activity Company, Frankfurt Branch regulated by BaFin, the ECB and the CBI; BofA Europe (Madrid): Bank of America Europe Designated Activity Company, Sucursal en España, regulated by the Bank of Spain, the ECB and the CBI; Merrill Lynch (Australia): Merrill Lynch (Hong Kong): Merrill (Hong Kong): Merr (Asia Pacific) Limited, regulated by the Hong Kong Securities and Futures Commission (HKSFC); Merrill Lynch (Singapore): Merrill Lynch (Singapore) Pte Ltd, regulated by the Monetary Authority of Singapore (MAS); Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Canada): Merrill Lynch (Mexico): Merrill Ly de Bolsa, regulated by the Comisión Nacional Bancaria y de Valores; Merrill Lynch (Argentina): Merrill Lynch Argentina SA, regulated by Comisión Nacional de Valores; BofAS Japan: BofA Securities Japan Co., Ltd., regulated by the Financial Services Agency; Merrill Lynch (Seoul): Merrill Lynch International, LLC Seoul Branch, regulated by the Financial Supervisory Service; Merrill Lynch (Taiwan): Merrill Lynch Securities (Taiwan) Ltd., regulated by the Securities and Futures Bureau; BofAS India: BofA Securities India Limited, regulated by the Securities and Exchange Board of India (SEBI); Merrill Lynch (Israel): Merrill Lynch (Israel): Merrill Lynch (Israel): Merrill Lynch (Israel) (Israel): Merrill Lynch (Israel): Merr Financial Services Authority (DFSA); Merrill Lynch (Brazil): Merrill Lynch S.A. Corretora de Títulos e Valores Mobiliários, regulated by Comissão de Valores Mobiliários; Merrill Lynch KSA Company: Merrill Lynch Kingdom of Saudi Arabia Company, regulated by the Capital Market Authority.

This information: has been approved for publication and is distributed in the United Kingdom (UK) to professional clients and eligible counterparties (as each is defined in the rules of the FCA and the PRA) by MLI (UK), which is authorized by the PRA and regulated by the FCA and the PRA - details about the extent of our regulation by the FCA and PRA are available from us on request; has been approved for publication and is distributed in the European Economic Area (EEA) by BofASE (France), which is authorized by the ACPR and regulated by the ACPR and the AMF; has been considered and distributed in Japan by BofAS Japan, a registered securities dealer under the Financial Instruments and Exchange Act in Japan, or its permitted affiliates; is issued and distributed in Hong Kong by Merrill Lynch (Hong Kong) which is regulated by HKSFC; is issued and distributed in Taiwan by Merrill Lynch (Taiwan); is issued and distributed in India by BofAS India; and is issued and distributed in Singapore to institutional investors and/or accredited investors (each as defined under the Financial Advisers Regulations) by Merrill Lynch (Singapore) (Company Registration No 198602883D). Merrill Lynch (Singapore) is regulated by MAS. Merrill Lynch Equities (Australia) Limited (ABN 65 006 276 795), AFS License 235132 (MLEA) distributes this information in Australia only to 'Wholesale' clients as defined by s.761G of the Corporations Act 2001. With the exception of Bank of America N.A., Australia Branch, neither MLEA nor any of its affiliates involved in preparing this information is an Authorised Deposit-Taking Institution under the Banking Act 1959 nor regulated by the Australian Prudential Regulation Authority. No approval is required for publication or distribution of this information in Brazil and its local distribution is by Merrill Lynch (Brazil) in accordance with applicable regulations. Merrill Lynch (DIFC) is authorized and regulated by the DFSA Information in Germany and is regulated by Merrill Lynch (DIFC) is done so in accord

This information has been prepared and issued by BofAS and/or one or more of its non-US affiliates. The author(s) of this information may not be licensed to carry on regulated activities in your jurisdiction and, if not licensed, do not hold themselves out as being able to do so. BofAS and/or MLPF&S is the distributor of this information in the US and accepts full responsibility for information distributed to BofAS and/or MLPF&S clients in the US by its non-US affiliates. Any US person receiving this information and wishing to effect any transaction in any security discussed herein should do so through BofAS and/or MLPF&S and not such foreign affiliates. Hong Kong recipients of this information should contact Merrill Lynch (Asia Pacific) Limited in respect of any matters relating to dealing in securities or provision of specific advice on securities or any other matters arising from, or in connection with, this information. Singapore recipients of this information should contact Merrill Lynch (Singapore) Pte Ltd in respect of any matters arising from, or in connection with, this information. For clients that are not accredited investors, expert investors or institutional investors Merrill Lynch (Singapore) Pte Ltd accepts full responsibility for the contents of this information distributed to such clients in Singapore.

#### General Investment Related Disclosures:

Taiwan Readers: Neither the information nor any opinion expressed herein constitutes an offer or a solicitation of an offer to transact in any securities or other financial instrument. No part of this report may be used or reproduced or quoted in any manner whatsoever in Taiwan by the press or any other person without the express written consent of BofA Securities. This document provides general information only, and has been prepared for, and is intended for general distribution to, BofA Securities clients. Neither the information nor any opinion expressed constitutes an offer or an invitation to make an offer, to buy or sell any securities or other financial instrument or any derivative related to such securities or instruments (e.g., options, futures, warrants, and contracts for differences). This document is not intended to provide personal investment advice and it does not take into account the specific investment objectives, financial situation and the particular needs of, and is not directed to, any specific person(s). This document and its content do not constitute, and should not be considered to constitute, investment advice for purposes of ERISA, the US tax code, the Investment Advisers Act or otherwise. Investors should seek financial advice regarding the appropriateness of investing in financial instruments and implementing investment strategies discussed or recommended in this document and should understand that statements regarding future prospects may not be realized. Any decision to purchase or subscribe for securities in any offering must be based solely on existing public information on such security or the information in the prospectus or other offering document issued in connection with such offering, and not on this document.

Securities and other financial instruments referred to herein, or recommended, offered or sold by BofA Securities, are not insured by the Federal Deposit Insurance Corporation and are not deposits or other obligations of any insured depository institution (including, Bank of America, N.A.). Investments in general and, derivatives, in particular, involve numerous risks, including, among others, market risk, counterparty default risk and liquidity risk. No security, financial instrument or derivative is suitable for all investors. Digital assets are extremely speculative, volatile

and are largely unregulated. In some cases, securities and other financial instruments may be difficult to value or sell and reliable information about the value or risks related to the security or financial instrument may be difficult to obtain. Investors should note that income from such securities and other financial instruments, if any, may fluctuate and that price or value of such securities and instruments may rise or fall and, in some cases, investors may lose their entire principal investment. Past performance is not necessarily a guide to future performance. Levels and basis for taxation may change.

This report may contain a short-term trading idea or recommendation, which highlights a specific near-term catalyst or event impacting the issuer or the market that is anticipated to have a short-term price impact on the equity securities of the issuer. Short-term trading ideas and recommendations are different from and do not affect a stock's fundamental equity rating, which reflects both a longer term total return expectation and attractiveness for investment relative to other stocks within its Coverage Cluster. Short-term trading ideas and recommendations may be more or less positive than a stock's fundamental equity rating.

BofA Securities is aware that the implementation of the ideas expressed in this report may depend upon an investor's ability to "short" securities or other financial instruments and that such action may be limited by regulations prohibiting or restricting "shortselling" in many jurisdictions. Investors are urged to seek advice regarding the applicability of such regulations prior to executing any short idea contained in this report.

Foreign currency rates of exchange may adversely affect the value, price or income of any security or financial instrument mentioned herein. Investors in such securities and instruments, including ADRs, effectively assume currency risk.

BofAS or one of its affiliates is a regular issuer of traded financial instruments linked to securities that may have been recommended in this report. BofAS or one of its affiliates may, at any time, hold a trading position (long or short) in the securities and financial instruments discussed in this report.

BofA Securities, through business units other than BofA Global Research, may have issued and may in the future issue trading ideas or recommendations that are inconsistent with, and reach different conclusions from, the information presented herein. Such ideas or recommendations may reflect different time frames, assumptions, views and analytical methods of the persons who prepared them, and BofA Securities is under no obligation to ensure that such other trading ideas or recommendations are brought to the attention of any recipient of this information. In the event that the recipient received this information pursuant to a contract between the recipient and BofAS for the provision of research services for a separate fee, and in connection therewith BofAS may be deemed to be acting as an investment adviser, such status relates, if at all, solely to the person with whom BofAS has contracted directly and does not extend beyond the delivery of this report (unless otherwise agreed specifically in writing by BofAS). If such recipient uses the services of BofAS in connection with the sale or purchase of a security referred to herein, BofAS may act as principal for its own account or as agent for another person. BofAS is and continues to act solely as a broker-dealer in connection with the execution of any transactions, including transactions in any securities referred to herein.

#### BofA ESGMeter Methodology:

ESGMeter is a proprietary metric based on quantitative analysis and fundamental analyst inputs that reflects our assessment of a company's Environmental, Social and Governance-related attributes. The ESGMeter is intended to indicate a company's likelihood of experiencing stronger financial stability (higher return on equity and lower earnings and price volatility) over the next three years relative to peer group. There are three ESGMeter levels - Low, Medium, and High - which indicate whether a company has attributes most likely to translate into superior financial stability (in the case of a High level) or weaker financial stability (in the case of a Low level) over the next three years relative to its peer group. A Medium level suggests that a company exhibits ESG characteristics that are likely associated with financial stability results in line with its peer group over the next three years. Full details of our methodology, financial stability definition and disclaimers are available at BofA ESGMeter methodology. ESGMeter is not indicative of a company's future stock price performance and is not an investment recommendation or rating. ESGMeter is independent of the BofA Global Research fundamental equity analyst's investment rating, volatility risk rating, income rating or price objective for that company.

#### Copyright and General Information:

Copyright 2024 Bank of America Corporation. All rights reserved. iQdatabase® is a registered service mark of Bank of America Corporation. This information is prepared for the use of BofA Securities clients and may not be redistributed, retransmitted or disclosed, in whole or in part, or in any form or manner, without the express written consent of BofA Securities. BofA Global Research information is distributed simultaneously to internal and client websites and other portals by BofA Securities and is not publicly-available material. Any unauthorized use or disclosure is prohibited. Receipt and review of this information constitutes your agreement not to redistribute, retransmit, or disclose to others the contents, opinions, conclusion, or information contained herein (including any investment recommendations, estimates or price targets) without first obtaining express permission from an authorized officer of BofA Securities. Materials prepared by BofA Global Research personnel are based on public information. Facts and views presented in this material have not been reviewed by, and may not reflect information known to, professionals in other business areas of BofA Securities, including investment banking personnel. BofA Securities has established information barriers between BofA Global Research and certain business groups. As a result, BofA Securities does not disclose certain client relationships with, or compensation received from, such issuers. To the extent this material discusses any legal proceeding or issues, it has not been prepared as nor is it intended to express any legal conclusion, opinion or advice. Investors should consult their own legal advisers as to issues of law relating to the subject matter of this material. BofA Global Research personnel's knowledge of legal proceedings in which any BofA Securities entity and/or its directors, officers and employees may be plaintiffs, defendants, co-defendants or co-plaintiffs with or involving issuers mentioned in this material is based on public inform

This information has been prepared independently of any issuer of securities mentioned herein and not in connection with any proposed offering of securities or as agent of any issuer of any securities. None of BofAS any of its affiliates or their research analysts has any authority whatsoever to make any representation or warranty on behalf of the issuer(s). BofA Global Research policy prohibits research personnel from disclosing a recommendation, investment rating, or investment thesis for review by an issuer prior to the publication of a research report containing such rating, recommendation or investment thesis.

Any information relating to the tax status of financial instruments discussed herein is not intended to provide tax advice or to be used by anyone to provide tax advice. Investors are urged to seek tax advice based on their particular circumstances from an independent tax professional.

The information herein (other than disclosure information relating to BofA Securities and its affiliates) was obtained from various sources and we do not guarantee its accuracy. This information may contain links to third-party websites. BofA Securities is not responsible for the content of any third-party website or any linked content contained in a third-party website. Content contained on such third-party websites is not part of this information and is not incorporated by reference. The inclusion of a link does not imply any endorsement by or any affiliation with BofA Securities. Access to any third-party website is at your own risk, and you should always review the terms and privacy policies at third-party websites before submitting any personal information to them. BofA Securities is not responsible for such terms and privacy policies and expressly disclaims any liability for them.

All opinions, projections and estimates constitute the judgment of the author as of the date of publication and are subject to change without notice. Prices also are subject to change without notice. BofA Securities is under no obligation to update this information and BofA Securities ability to publish information on the subject issuer(s) in the future is subject to applicable quiet periods. You should therefore assume that BofA Securities will not update any fact, circumstance or opinion contained herein.

Subject to the quiet period applicable under laws of the various jurisdictions in which we distribute research reports and other legal and BofA Securities policy-related restrictions on the publication of research reports, fundamental equity reports are produced on a regular basis as necessary to keep the investment recommendation current.

Certain outstanding reports or investment opinions relating to securities, financial instruments and/or issuers may no longer be current. Always refer to the most recent research report relating to an issuer prior to making an investment decision.

In some cases, an issuer may be classified as Restricted or may be Under Review or Extended Review. In each case, investors should consider any investment opinion relating to such issuer (or its security and/or financial instruments) to be suspended or withdrawn and should not rely on the analyses and investment opinion(s) pertaining to such issuer (or its securities and/or financial instruments) nor should the analyses or opinion(s) be considered a solicitation of any kind. Sales persons and financial advisors affiliated with BofAS or any of its affiliates may not solicit purchases of securities or financial instruments that are Restricted or Under Review and may only solicit securities under Extended Review in accordance with firm policies. Neither BofA Securities nor any officer or employee of BofA Securities accepts any liability whatsoever for any direct, indirect or consequential damages or losses arising from any use of this information.

