### **CLEAN ENERGY** Investments with the power

to lead the green revolution

BMO 📥

Exchange Traded Funds

### Agenda

- Why Clean Energy?
- Clean Energy vs. Traditional Energy
  - what it is and what it is not

### • BMO's Clean Energy ETF

- > Why BMO
- Methodology
- Performance

### • Portfolio Construction using thematic ETFs

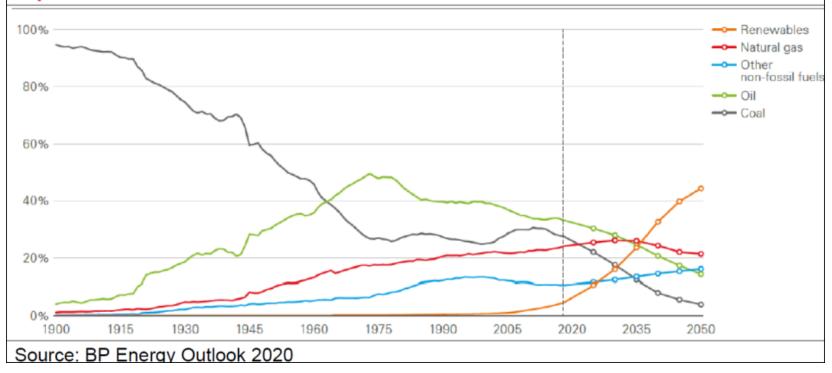


### THE PROBLEM Resource Scarcity → High Costs → Huge Impact on Environment



### Why Now

# Chart 1: BP's Forecast for Shares of Primary Energy Sources in the Event of a Rapid Transition



### **Drivers: Global Net-Zero Emission Targets**

- Net-zero emission targets in key markets are expected to accelerate the deployment of renewables
- China biggest offender goal to be carbon neutral by 2060
- US and Europe goal to be carbon neutral by 2050



### Drivers: Biden Administration Will Push for a Greener Grid

- \$2 Trillion proposed clean energy & infrastructure plan
- Rejoining of Paris Climate Agreement
- Goal to zero out U.S. electricity sector carbon emissions by 2035





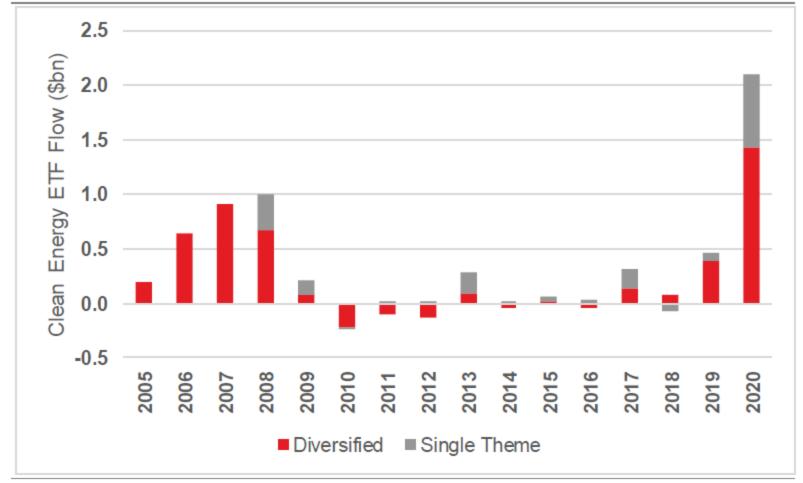
### **Drivers: Cost efficiencies**

Onshore wind	Offshore wind Solar fixed	Coal 📃 Natural gas	
\$400 per megawatt h	bur		
300			
200	$\sim$		
100			
0			

Source: BloombergNEF

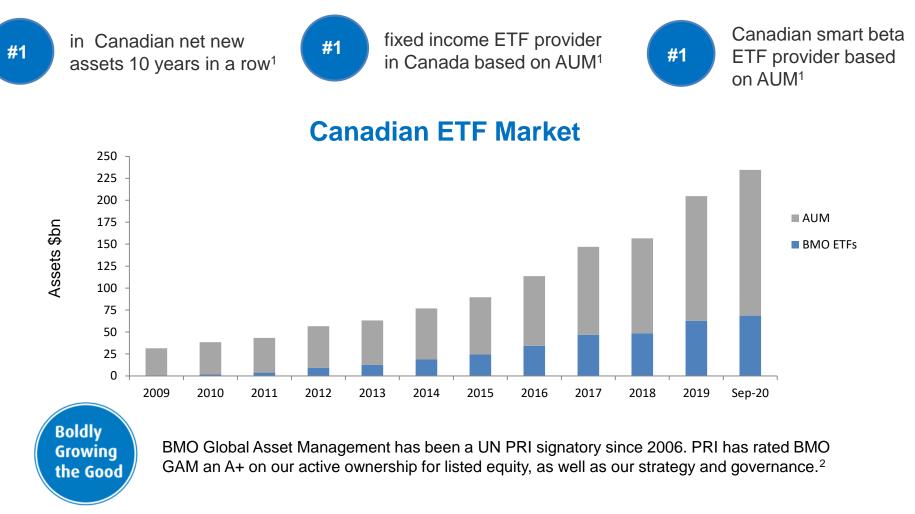


### Growth in Clean Energy ETFs (US)



Source: NBF ETF Research, Bloomberg. Data as of Sept 30, 2020

### **BMO Exchange Traded Funds**



<sup>1,</sup> Bloomberg December 2019. <sup>2</sup>PRI 2019 Assessment Report.

# WSJ Ranks BMO in the top 15 most sustainably managed companies in the world<sup>2</sup>

## Table 1: Canadian ETF sponsors — proxy voting Self-reported votes against management and abstentions

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Ma	arket share			
Sponsor	(2019)	Proxy voting	🗖 Against Managen	nent 📕 Abstained
BlackRock	33.6%		9.0%	1.0%
BMO Asset Management	30.6%	26.0%		2.0%
Vanguard Canada	12.2%		5.0	%
Horizons ETFs	5.1%		Not available	
CI Financial	4.2%		8.0%	2.0%
Mackenzie Investments	2.3%		8.0%	
Invesco	2.1%		11.2%	1.0%
Purpose Investments	2.0%		Not available	
RBC Global Asset Mgt.	1.8%		11.0%	
Franklin Templeton	1.0%		9.0%	1.0%

Source: PRI Transparency Reports, 2019; PUR Investing Inc. Horizons and Purpose are not PRI signatories.



### ZCLN – BMO Clean Energy Index ETF

 Tracks the S&P Global Clean Energy Index providing exposure to 30 companies from around the world that are involved in clean energy related businesses Mgmt Fee: 0.35%

### Key Facts

Index Name	S&P Global Clean Energy
Number of Stocks	~30
Max weight	4.5% cap per stock
Total Market Capitalization	Greater than or equal to US\$ 300 million
Float Market Capitilization	Greater than or equal to US\$ 100 million
Liquidity Thresholds	3-month Average Daily Value Traded of US\$ 3 million (US\$ 2 million for current constituents)
Domicile/Trading Location Rebalance	Stocks must be trading on a developed market exchange. Semi-Annual (April and October)



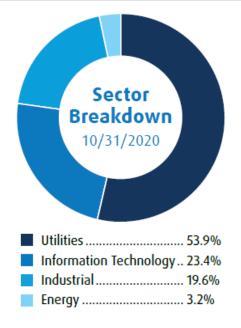
### ZCLN – BMO Clean Energy Index ETF

As of Dec 31 2020	1 Year	3 Year	5 Year	10 Year
S&P Global 1200 Energy Index	-34.09	-16.2	-5.66	-5.92
S&P Global Clean Energy Index	142.07	47.62	26.43	8.05

Global Clean Energy, vs Traditional Global Energy – Growth of 10,000 over 10 years



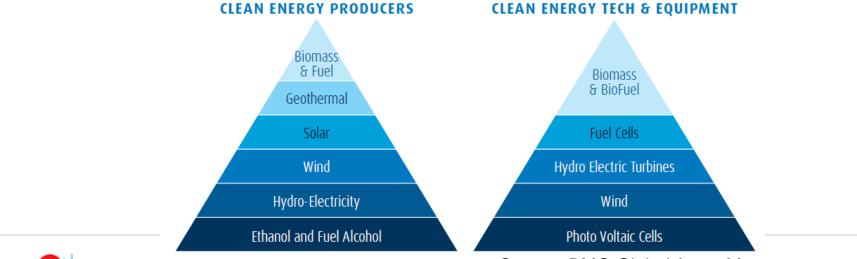
### ZCLN – BMO Clean Energy Index ETF



#### Top 10 Holdings

Name	Sector	Weight (%)
Plug Power Inc	Industrials	5.38
Meridian Energy Ltd	Utilities	5.27
Verbund Ag	Utilities	4.92
Enphase Energy Inc	Information Technology	4.85
Siemens Gamesa Renewable Energy Sa	Industrials	4.77
Orsted	Utilities	4.68
Contact Energy Ltd	Utilities	4.67
Vestas Wind Systems	Industrials	4.67
First Solar Inc	Information Technology	4.63
Xinyi Solar Holdings Ltd	Information Technology	4.31

Source: Bloomberg, as of Oct 31, 2020



BMO (A) Exchange Traded Funds

Source: BMO Global Asset Management 13

### **Carbon Characteristics**



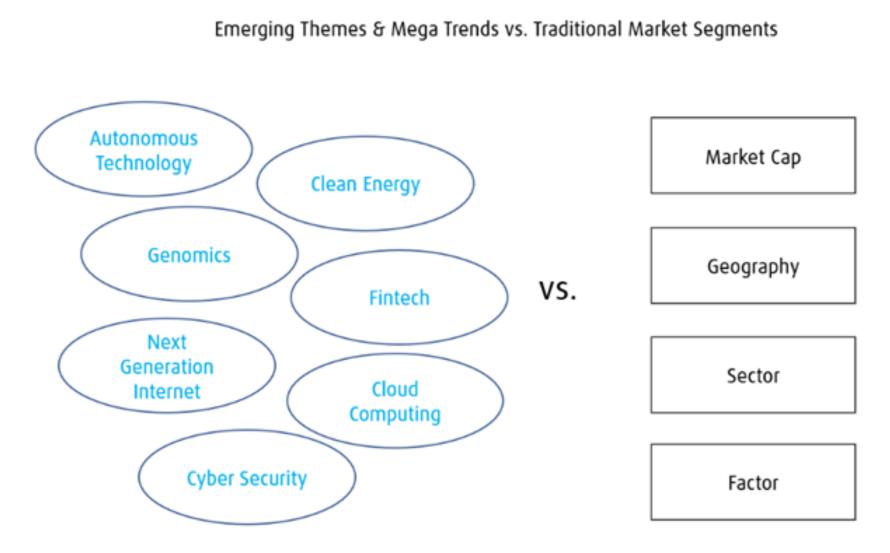
#### ESG Carbon Characteristics (as of Nov 30 2020)

	S&P Global Clean Energy Index	S&P Global 1200 Energy Index
Carbon to value invested (metric tons CO2e/\$1M invested)*	72.31	583.31
Carbon to revenue (metric tons CO2e/\$1M revenues)*	282.61	556.72
Weighted average carbon intensity (metric tons CO2e/\$1M revenues)*	327.63	629.43
Fossil fuel reserve emissions (metric tons CO2/\$1M invested)	0	25,353.95

\*Operational and first-tier supply chain greenhouse gas emissions. For more information, please visit: www.spdji.com/esg-carbon-metrics

Source: S&P Nov 30 2020

### **Emerging Themes & Megatrends**



### **BMO's ESG ETFs**



A full list of ESG products can be found using the RIA ESG Tool <u>https://www.riacanada.ca/ri-marketplace/investment-options/</u>

\*ZWG is not index based but selects Sustainable Dividend Growers from a universe using ESG screening in the investment selection

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