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CFTC's Energy and Environmental Markets Advisory Committee

June 3, 2021

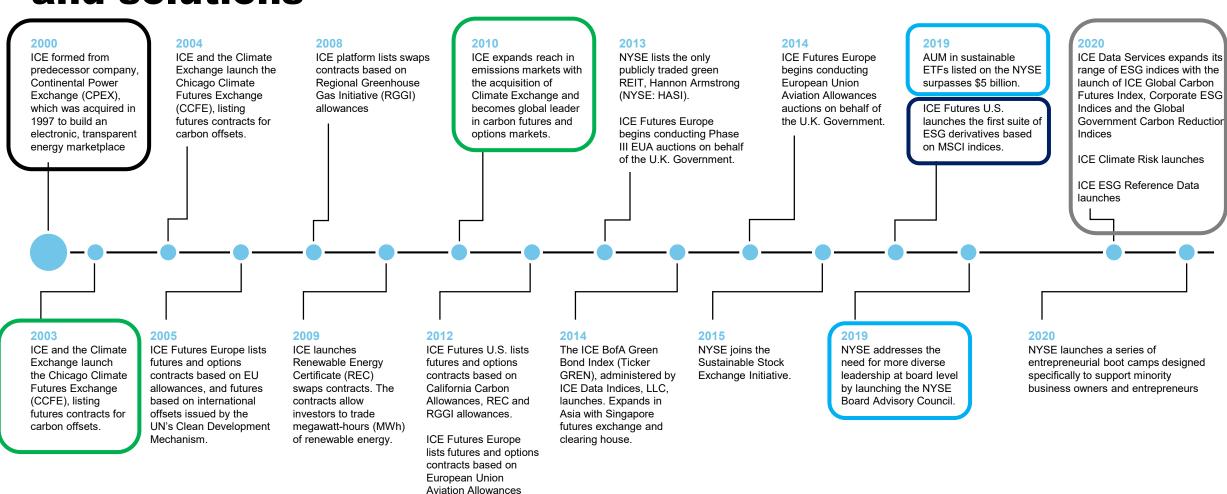




With ESG solutions across the investment lifecycle ICE connects people to opportunity to create insights and drive sustainable decision-making.



Our track record of creating sustainable products and solutions





Sustainable markets

ICE Exchanges power global markets

Global leadership

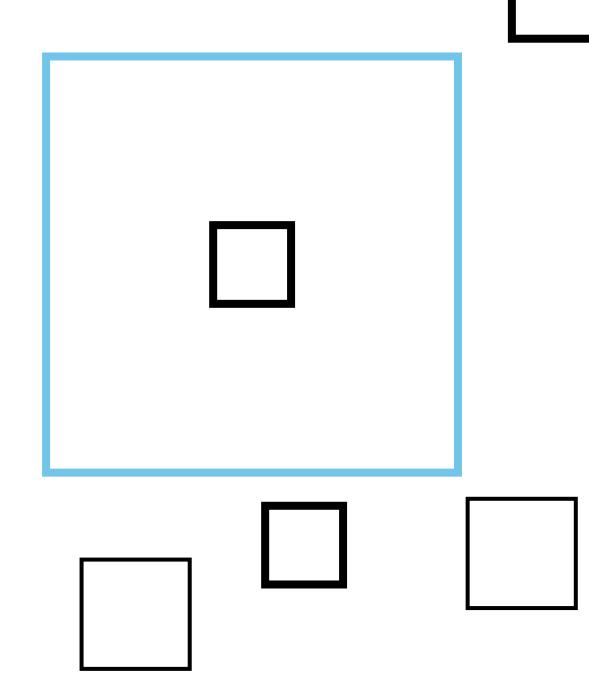
- A leader in environmental markets for nearly two decades. Today, our environmental markets span Europe and North America
- ICE partnered with MSCI to launch the first suite of futures referencing MSCI ESG indices
- NYSE-listed companies currently attract 80% of all US ESG-focused investment capital

Asset Classes

- Carbon
- Green attribute
- ESG equity derivatives
- NYSE ESG ETFs



Environmental portfolio



Global environmental markets

ICE has the largest and most liquid environmental markets in the world

ICE Environmental Markets

Carbon



Green

Allowances

Offsets

Renewable fuels

Renewable electricity

<u>EU</u> <u>Allowance</u> (EUA) UK Allowance (UKA) California
Carbon
Allowance
(CCA)

Regional
Greenhous
e Gas
Initiative
(RGGI)

Certified Emission Reduction (CER) California
Carbon
Offset
(CCO)

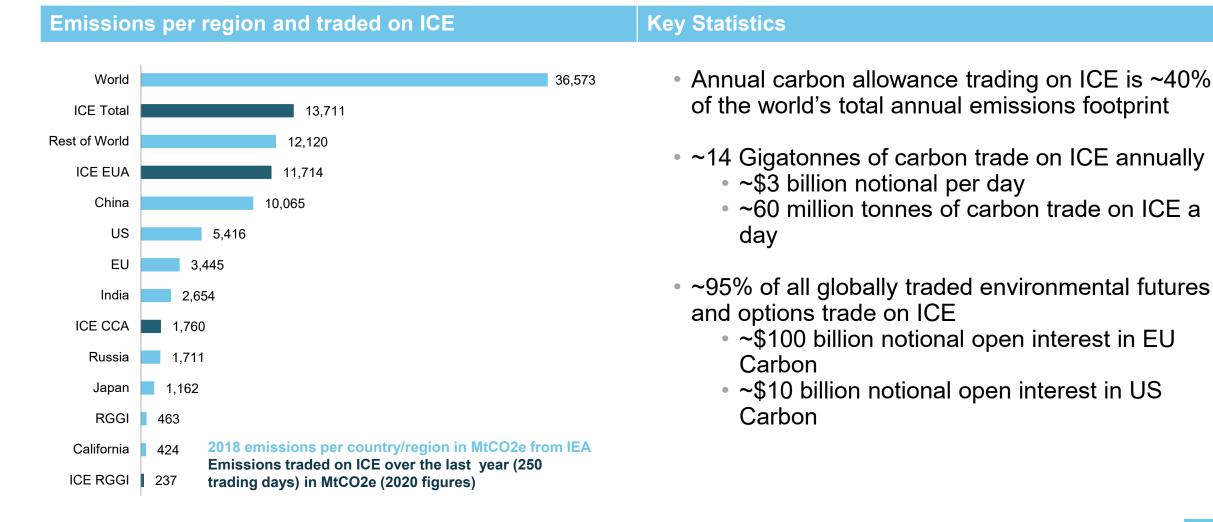
Biodiesel & Ethanol Low Carbon Fuel Standard (LCFS) Renewable
Identification
Number
(RIN)

Renewable
Energy
Certificate
(REC)



Market size

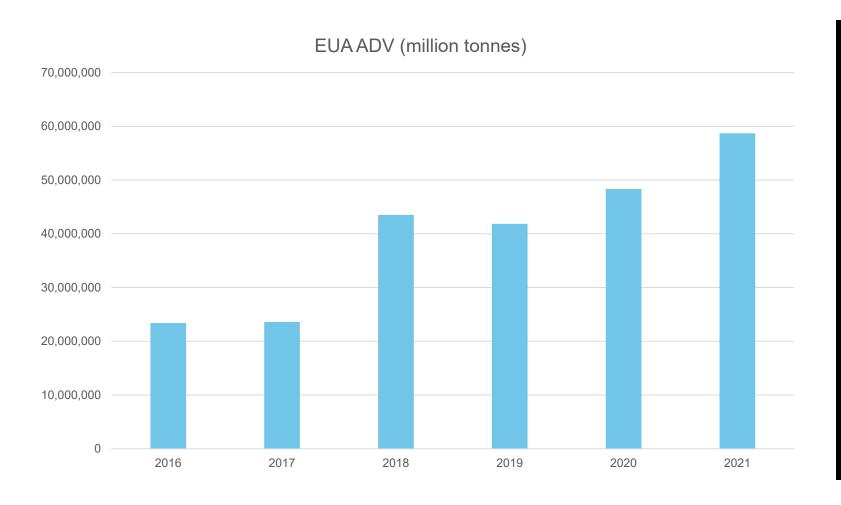
ICE has the largest and most liquid environmental markets in the world





2021 Highlights

Open interest (OI) in ICE's environmental complex is up 14% year-over-year at approximately 2.83 million lots



Europe

- **■**EUA ADV +17%
- ■EUA options OI record at 804,000 lots

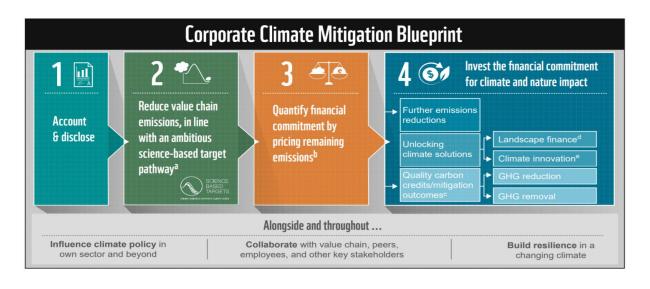
USA

- ■RGGI ADV +75%
- ■US RECs OI +15%



Voluntary initiatives

A blueprint for corporate action on climate and nature



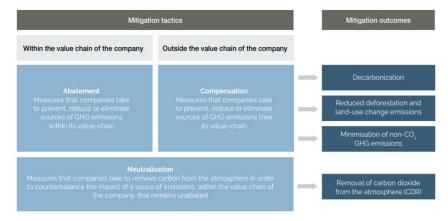
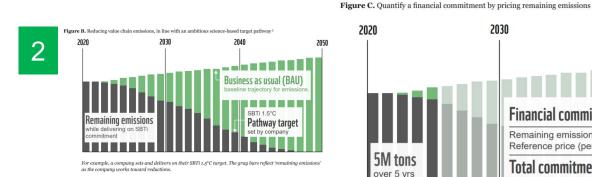
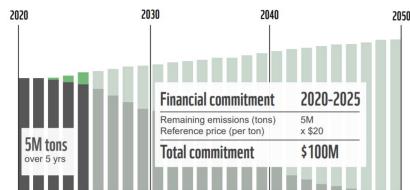


Figure 3. Taxonomy of climate mitigation tactics and outcomes





Source:

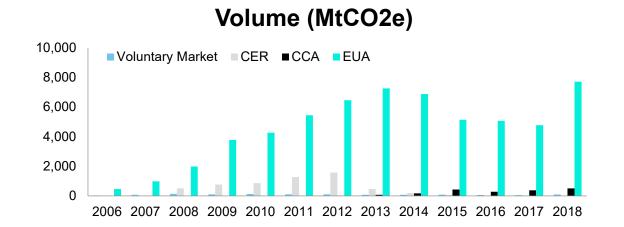
Beyond Science Base Targets: A blueprint for corporate action on climate and nature. World Wide Fund For Nature (formerly World Wildlife Fund), Gland, Switzerland and Boston Consulting Group

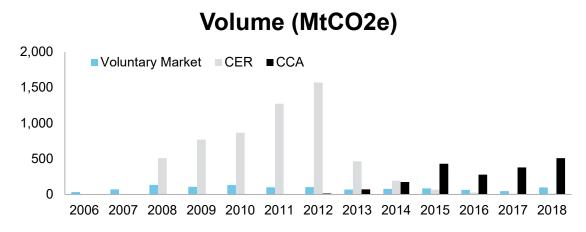
Figure D. Invest the financial commitment for climate and nature impact 2020 2050 Allocation of investments A Further emissions reductions **B** Unlocking climate solutions \$60M C Quality carbon credits/mitigation outcomes \$15M \$100M Total commitment



Voluntary carbon offset market

Voluntary markets are small in comparison to compliance markets





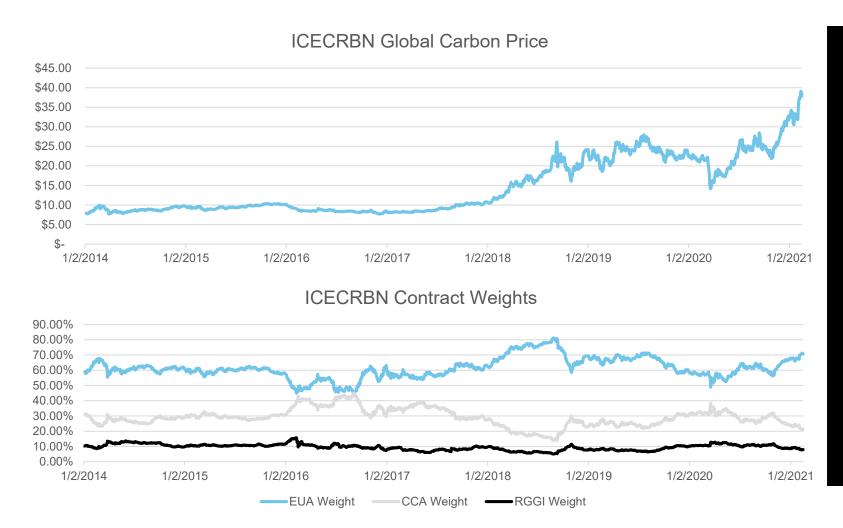
	2017			2018			2019		
Project Types	Volume (MtCO ₂ e)	Average Price (\$)	Value (\$ millions)	Volume (MtCO ₂ e)	Average Price (\$)	Value (\$ millions)	Volume (MtCO ₂ e)	Average Price (\$)	Value (\$ millions)
Forestry and Land Use	16.6	3.4	63.4	50.7	3.2	171.9	36.7	4.3	159.1
Renewable Energy	16.8	1.9	31.5	23.8	1.7	40.9	42.4	1.4	60.1
Waste Disposal	3.7	2	7.4	6.1	4.8	29.5	7.3	2.5	18
Household Devices	2.3	5	11.8	4.5	2.2	10	6.4	3.8	24.8
Chemical Process/Indust. Manufactering	2.6	1.9	4.9	2.8	2.8	7.8	4.1	1.9	7.7
Energy Efficiency/Fuel Switching	1.1	2.1	3.3	2.5	3.1	7.9	3.1	3.9	11.9
Transportation	0.1	2.9	0.2	0.3	1.7	0.5	0.4	1.7	0.7

Source: Ecosystems marketplace



ICE carbon futures index (or underlying futures)

Policy makers, corporates, banks, asset managers, etf issuers



- ■Carbon benchmarking
 - Shadow carbon pricing
 - Internal carbon pricing
- Carbon as asset class
 - Portfolio diversification
 - Portfolio hedge against transition risk
- ■Boost ESG profile
 - Asset managers or corporates bot subject to compliance obligations can buy, hold and retire them voluntarily reducing the overall cap of an ETS



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