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Direxion

Navigating uncertainties in 2022 with Leveraged & Inverse ETFs and Thematic ETFs

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Navigating uncertainties in 2022 with Leveraged and Inverse ETFs and Thematic ETFs

Eddy Lam Managing Director, Head of Asia Feb 2022

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Agenda

- Company Introduction
- Leveraged and Inverse (L&I) ETF's basic
- Popular L&I ETF's trading themes and examples
- Thematic Investment in Hydrogen



About Direxion

Firm Overview					
Investment expertise:	 Specialized expertise in integrating Exchange Traded Products and derivatives 2nd largest Leveraged and Inverse products provider globally 				
Product offering:	67 Leveraged & Inverse ETFs & 14 strategic ETFs listed at NYSE (as of 24 Jan 22)				
Founded:	1997				
Offices:	New York, Boston, Hong Kong				
Asset Under Management:	~31b USD as of end of Dec 2021				



Source: Direxion

L&I and thematic ETFs have taken off since start of pandemic

- The AUM of Leveraged and Inverse ("L&I") ETFs grew more than double to USD180b in the past 2 years
- The AUM of thematic ETFs reached to USD227b







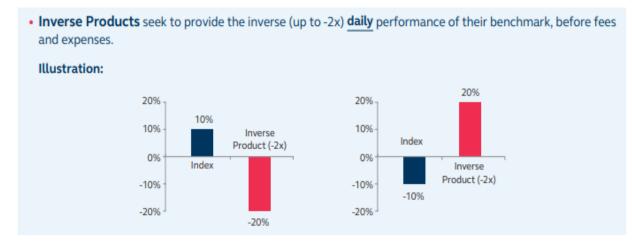
Leveraged & Inverse ETFs basics



What is Leveraged and Inverse ETF?

- Leveraged and Inverse ETFs are designed to provide 3x, 2x, -1x, -2x or -3x of the index daily return, before fee and expenses
- Leveraged and Inverse ETFs are a combination of Cash, Equities, and Derivatives (Typically Index Swap or Future contracts)
- Allows investors to gain exposure to specific indices and sectors without the need for full dollar-fordollar investment







Leveraged & Inverse ETF Con't

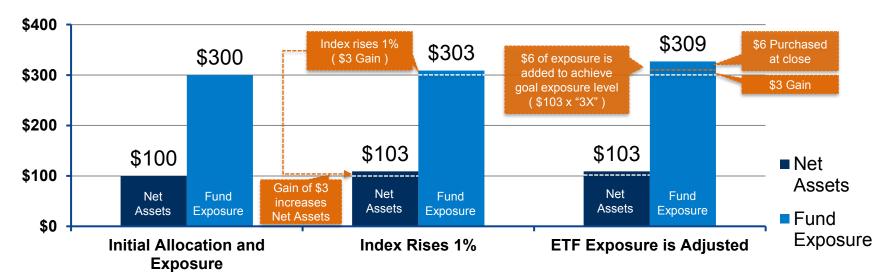
- 1. Daily rebalancing (to maintain the daily targeted leverage/Inverse ratio)
- 2. Implications of compounding (not tracking error)
 - Trending market favors L&I ETFs with daily rebalancing and compounding that will amplify multi-period returns
 - Choppy market is unfavorable to buy-and-hold L&I ETFs over long periods of time
- 3. Suitable for investors who actively monitor their holdings on a daily basis



Leveraged & Inverse ETFs: Daily Rebalancing & Compounding Example 1

Hypothetical Example (Daily 3x Leveraged ETF)

Index rises 1%



If a 3x Product has \$100 million in Net Assets, \$300 million of Fund Exposure to the fund's underlying index must be maintained.

If the index increases by 1% in a trading day, the Fund Exposure would rise to \$303 million and Net Assets would thus rise to \$103 million, resulting in a \$3 million gain.

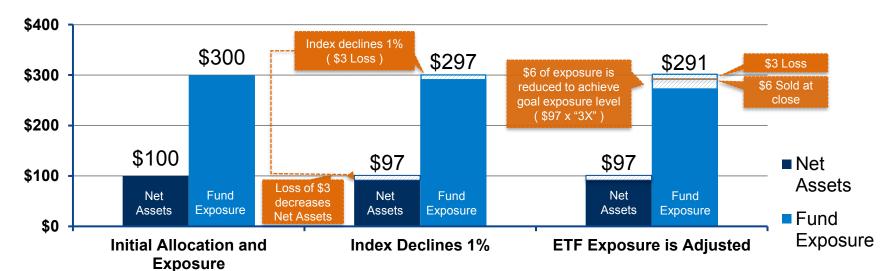
Since Fund Exposure must equal 300% of Net Assets at the close of each trading day (\$103 million in Net Assets x 300% = \$309 million), \$6 million of exposure must be added to the Fund Exposure.



Leveraged & Inverse ETFs: Daily Rebalancing & Compounding Example 2

Hypothetical Example (Daily 3x Leveraged ETF)

Index declines 1%



If a 3x Product has \$100 million in Net Assets, \$300 million of Fund Exposure to the fund's underlying index must be maintained.

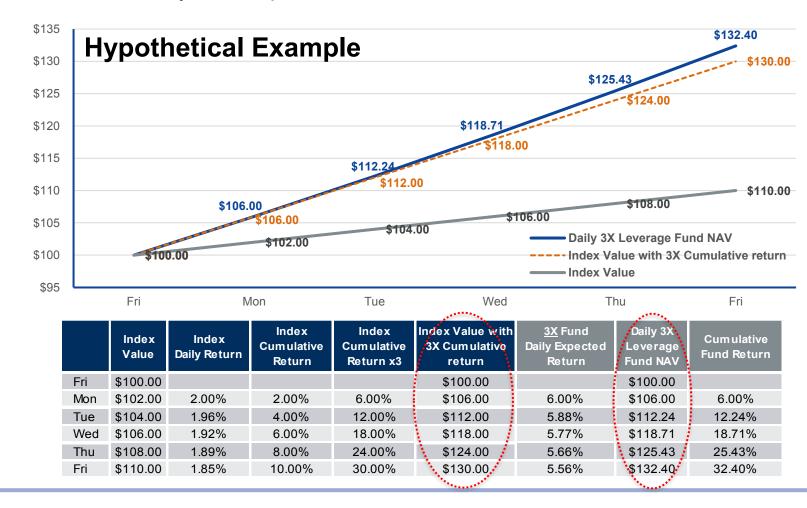
If the index decreases by 1% in a trading day, the Fund Exposure would decline to \$297 million and Net Assets would thus decline to \$97 million, resulting in a \$3 million loss.

Since Fund Exposure must equal 300% of Net Assets at the close of each trading day (\$97 million in Net Assets x 300% = \$291 million), \$6 million of exposure must be reduced to the Fund Exposure.



Leveraged & Inverse ETFs Implication of Compounding (Trending market)

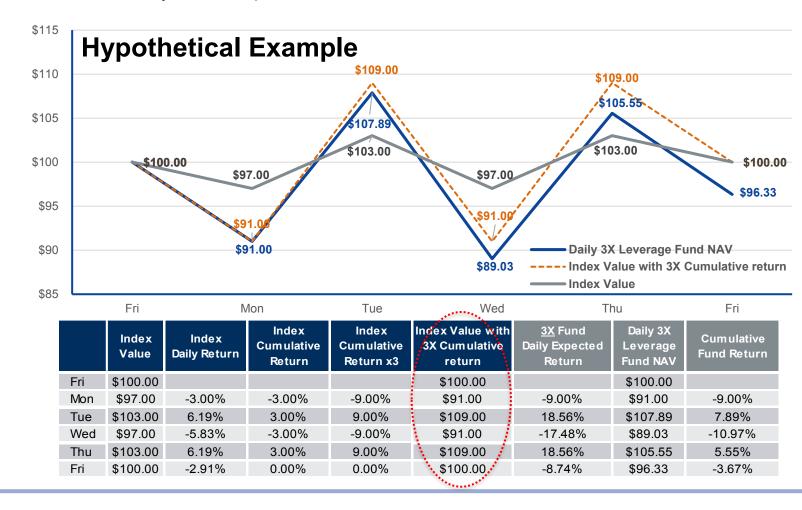
- When markets show a trend daily rebalancing can amplify multi-period returns
- Fund's return may exceed product of Index Return x Fund's Beta





Leveraged & Inverse ETFs Implication of Compounding (Choppy market)

- When markets have no trend daily rebalancing can reduce multi-period returns
- Fund return may trail the product of Index Return x Fund's Beta



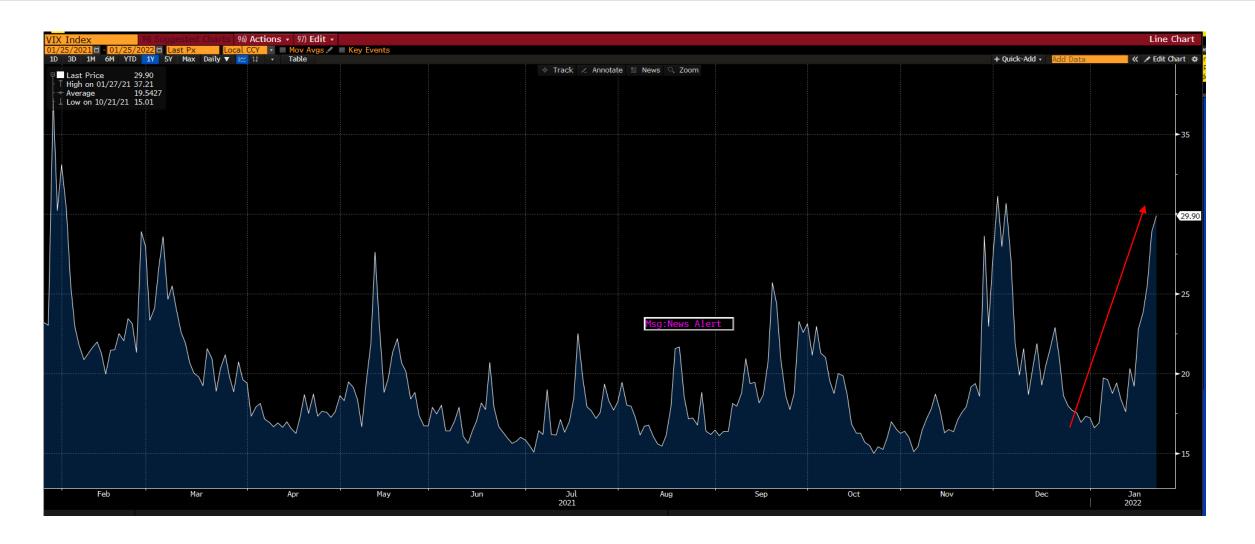


Leveraged & Inverse ETFs Example: Usage of Leveraged & Inverse ETFs

- 1. Rapid market exposure Efficient
- 2. Long / short relative value using securities
- 3. Efficient deployment of capital
- 4. Alternative to derivatives / futures
- 5. Portfolio hedging
- 6. Interim beta / portfolio rebalancing
- 7. Opportunistic trading (e.g earnings, US Fed announcements)
- 8. Access fixed income, commodities, real estate
- 9. Options / volatility trading
- 10. Strategic (arbitrage, double short)

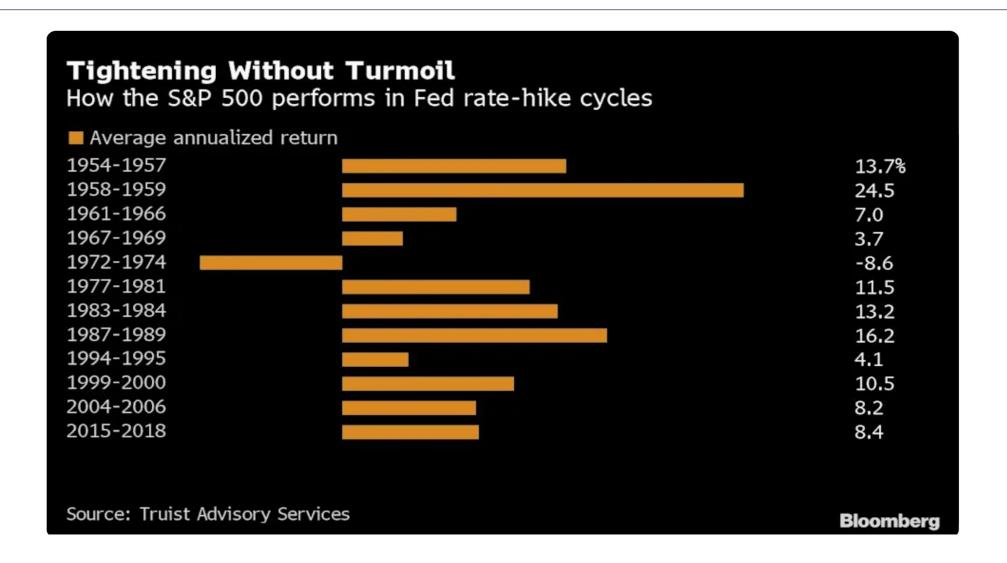


VIX rose sharply since beginning of 2022





How the S&P 500 performs in the past Fed rate hike cycle?





S&P 500 index traded below 200 days moving average level on 21 Jan 22





Source: Bloomberg 16

Inverse ETF as the hedging tool of S&P 500 index example

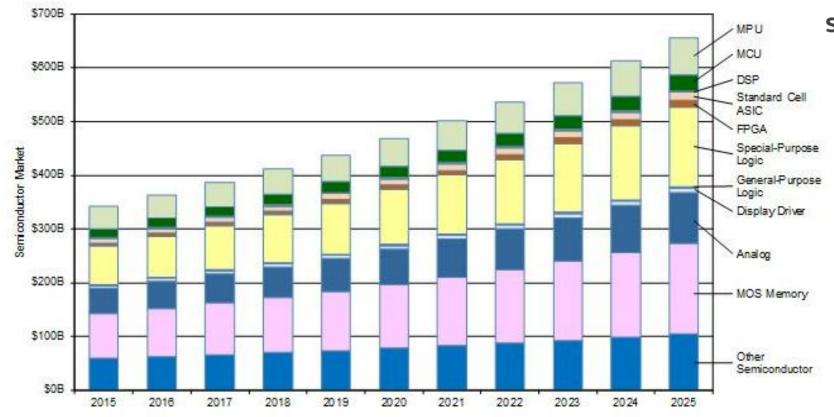




Source: Bloomberg

Global Semiconductor Market forecast

The global semiconductor market is expected to grow to USD655.6b in 2025



Technology

Chip supplier ASML forecasts strong 2022 despite fire hit

TSMC plans to spend record \$44bn on capacity expansion in 2022

Taiwan titan says demand will remain strong even if chip crunch eases



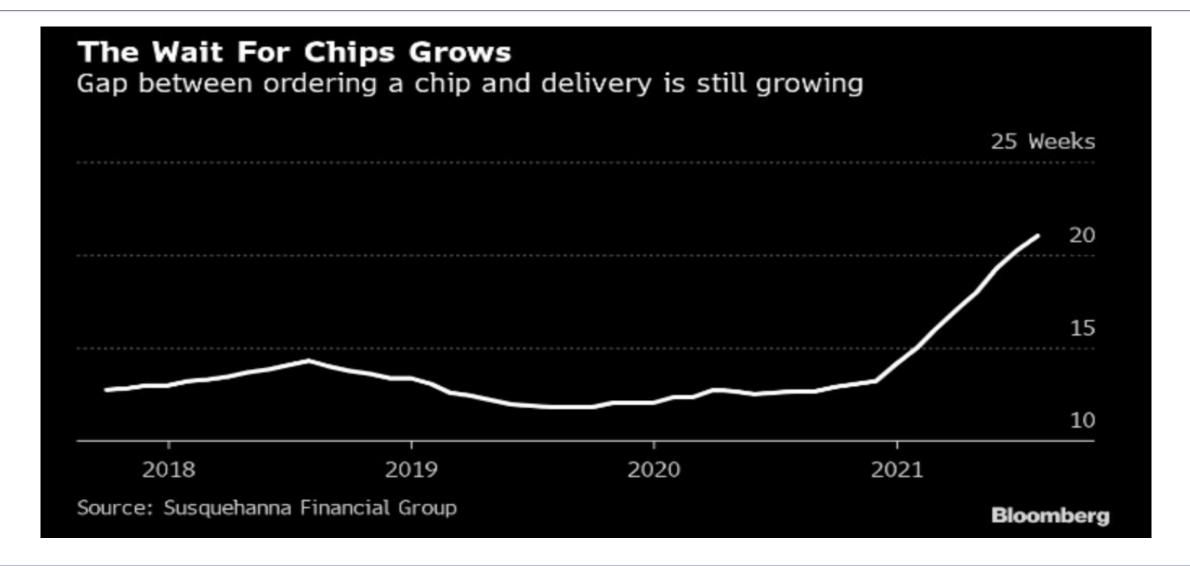
BUSINESS | EARNINGS

Nvidia Posts Record Revenue as Videogaming Sales Soar

Revenue reached \$7.1 billion despite continuing chip shortage



Gap between ordering a chip and delivery is over 20 weeks





Semiconductor sector recorded a higher return and volatility pattern compare to S&P500 and Nasdaq 100 in the past 5 years





Semiconductor L&I ETF performance example

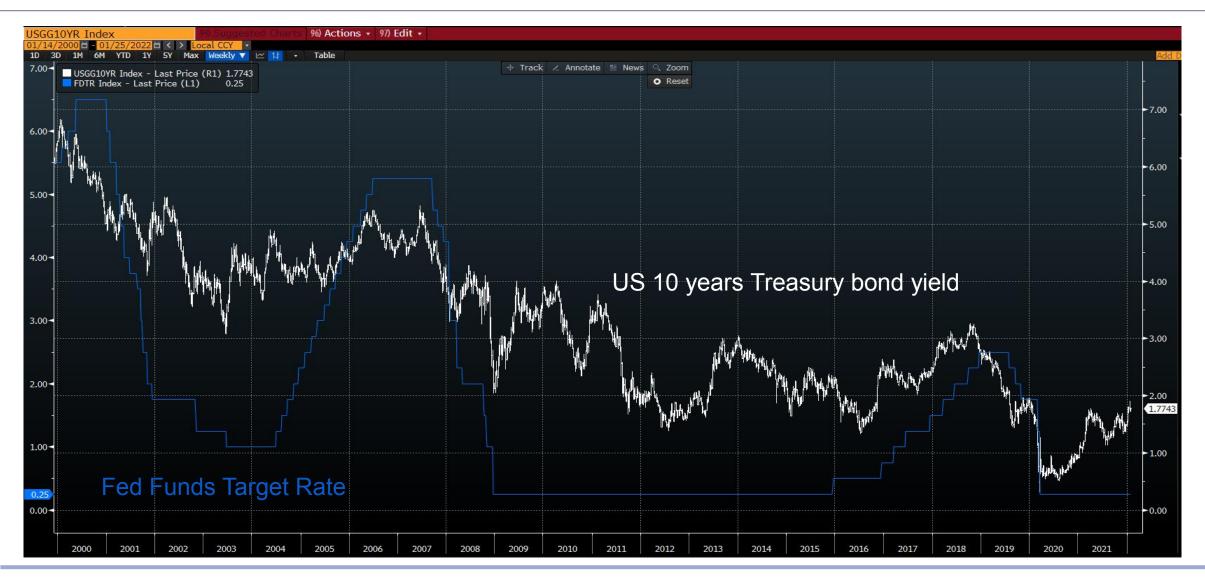




Source: Bloomberg

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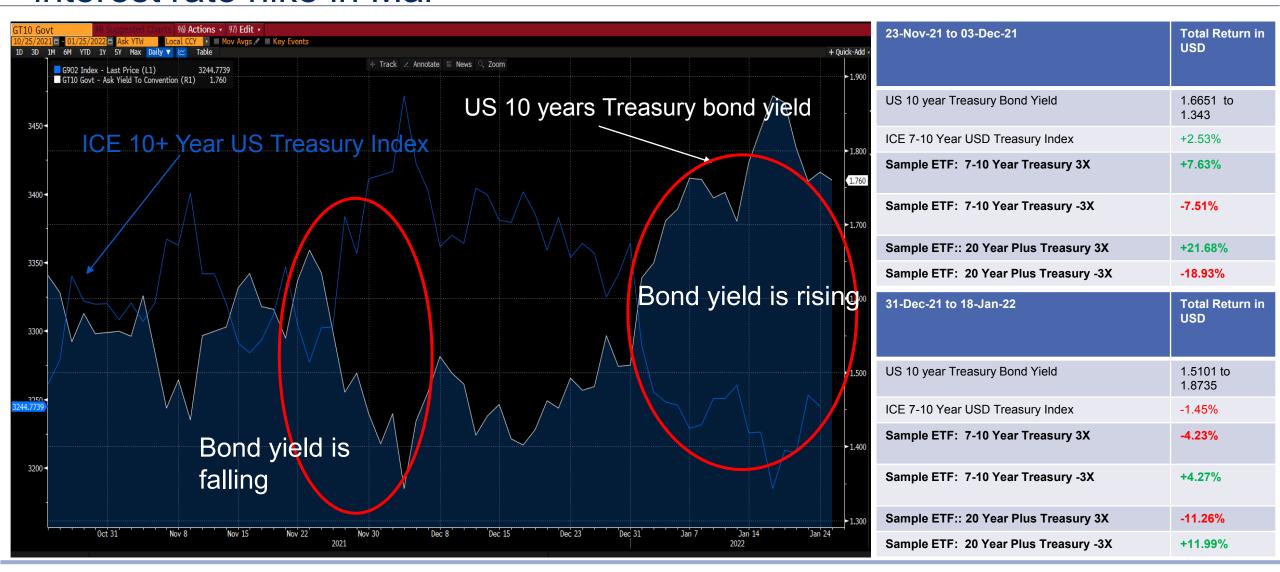
Fed Funds Target Rate vs US 10 Year Treasury Bond Yield





Source: Bloomberg

US treasury bond yield trades higher with the expectation of Fed interest rate hike in Mar





Source: Bloomberg

Leveraged & Inverse ETFs Popular investment themes and indices (1)



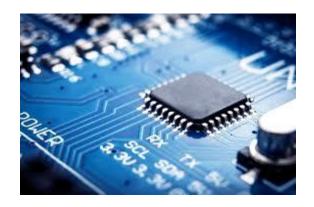


Market and theme	Index		
Warket and theme	Index		
	S&P 500		
US large Cap/US Broad Market	S&P 500 High Beta		
	S&P Technology Select Sector Index		
US Technology	Dow Jones Internet		
	ICE FANG 20 Index		
	Indxx Global Robotics and Artificial Intelligence Thematic Index		
	Indxx USA Cloud Computing		
	Indxx US FinTech and Decentralized Finance Index		



Source: Direxion 24

Leveraged & Inverse ETFs Popular investment themes and indices (2)







Market and theme	Index		
Semi-Conductor	ICE Semiconductor Sector Index		
Com Conductor			
	S&P Oil & gas production & exploration		
Energy, Oil and Gas	S&P Energy Select Sector Index		
	MVIS Global Goldminers Index		
Goldminers	MVIS Global Junior Goldminers Index		



Source: Direxion 25

Leveraged & Inverse ETFs Popular investment themes and indices (3)







Market & theme	Index		
	S&P Healthcare Select Sector Index		
Healthcare/ Pharmaceuticals & Medical/ Biotech	S&P Biotech Index		
	S&P Pharmaceutical Select Industry Index		
	Russell 1000 Financial Services Index		
	S&P Regional Banks Select Industry Index		
	ICE US Treasury 7-10 Year Bond Index		
US Fixed Income, Banking and Financial Services	ICE US Treasury 20+ Year Bond Index		

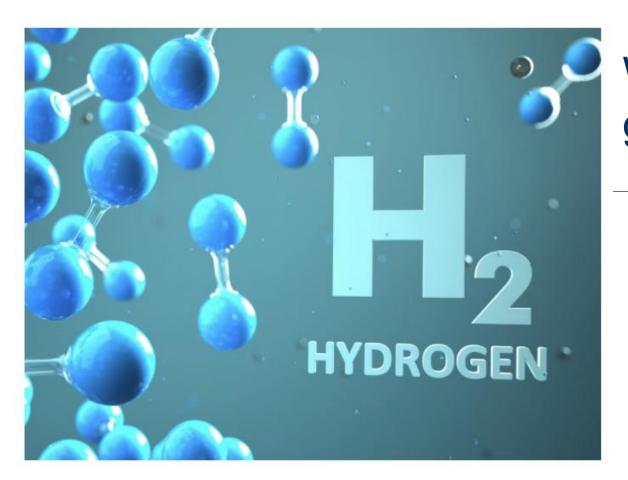


Leveraged & Inverse ETFs Popular investment themes and indices (4)



Market & theme	Index		
Emerging Market	MSCI Emerging Markets Index MSCI Mexico Index MSCI South Korea Index		
	MSCI India Index MSCI Brazil Index		
China	FTSE China Index CSI 300 Index CSI 300 China Internet Index		





Would Hydrogen be the next giant of clean energy?



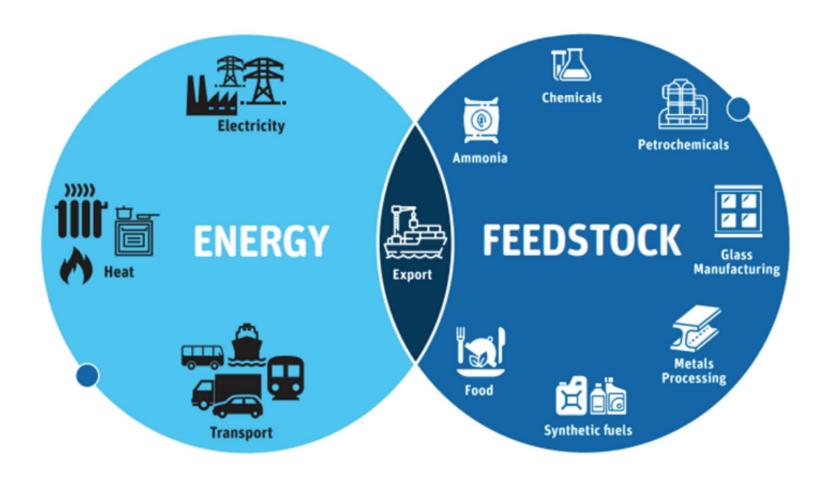
Types of Hydrogen

- Hydrogen is the secondary source of energy
- 3 key types of Hydrogen: 1) Grey Hydrogen 2) Blue Hydrogen 3) Green Hydrogen





Hydrogen is a Versatile Source of Clean Energy with Multiple Applications





Many countries are backing the Hydrogen Economy







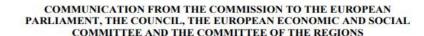
Brussels, 8.7.2020 COM(2020) 301 final



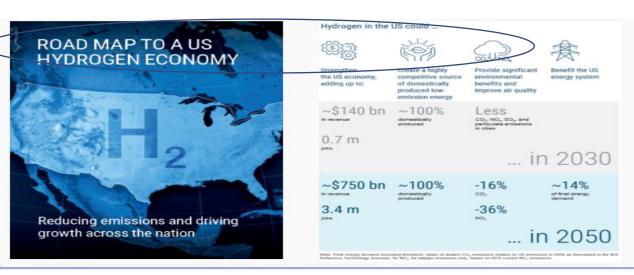
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文章来源: 新华网 发布时间: 2021-09-02



A hydrogen strategy for a climate-neutral Europe



[Country/region summary - Japan]

Japan promotes utilization of hydrogen with the framework of the Basic Hydrogen

Strategy to contribute significantly to decarbonization



Why Hydrogen use finally coming into focus towards net-zero carbon emissions?



The cost of production of green hydrogen, has fallen 50% in the last 5 years, and is expected to fall another 60–90% by the end of the decade



The technology involved in hydrogen production, storage, and equipment and components has notably improved over the years. This resulting in better efficiencies and flexibility for important drivers of the hydrogen economy, such as electrolysers (green hydrogen production) and fuel cells (end-market).

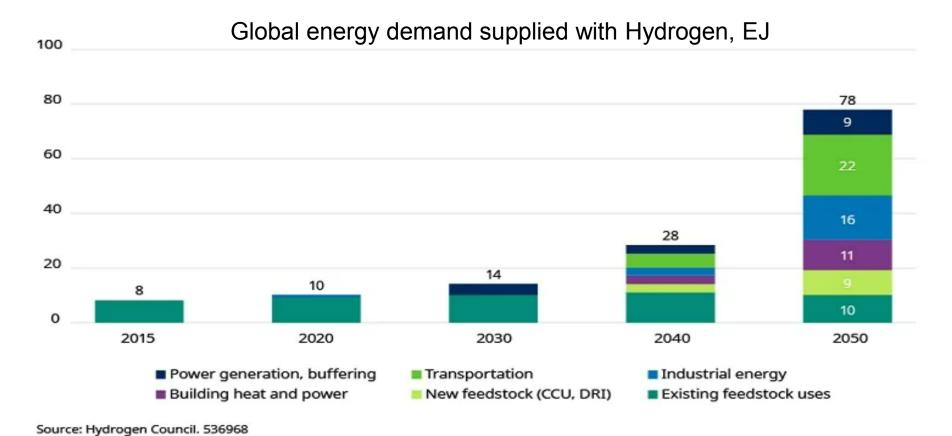


Over 110 countries, representing more than 65% of global CO2 emissions, have introduced targets to achieve netzero emissions by 2050. Today, there are over 100 members in the Hydrogen Council, with 228 hydrogen projects4 announced globally across the entire value chain



Projections of Hydrogen market growth

- Green Hydrogen only represents around 1% of total Hydrogen production currently
- If Green Hydrogen taking 100% of Hydrogen market share by 2050, the growth would be close to 800X larger than today





Indxx Hydrogen Economy Index

- ➤ Index captures 30 companies across 5 hydrogenrelated themes
- > Investment themes include:
- I. Hydrogen Production and Generation
- II. Hydrogen Storage and Supply
- III. Fuel Cell and Battery
- IV. Hydrogen Systems and Solutions
- V. Membrane and Catalyst
- ➤ Rebalancing frequency: 3 months

TOP 5 INDEX CONSTITUENTS

Company Name	Weight(%)
Air Liquide Sa	10.89%
Bloom Energy Corp	7.29%
Plug Power Inc	6.22%
Ballard Power Systems Inc	6.19%
Linde Plc	6.02%

INDEX RISK & RETURN STATISTICS

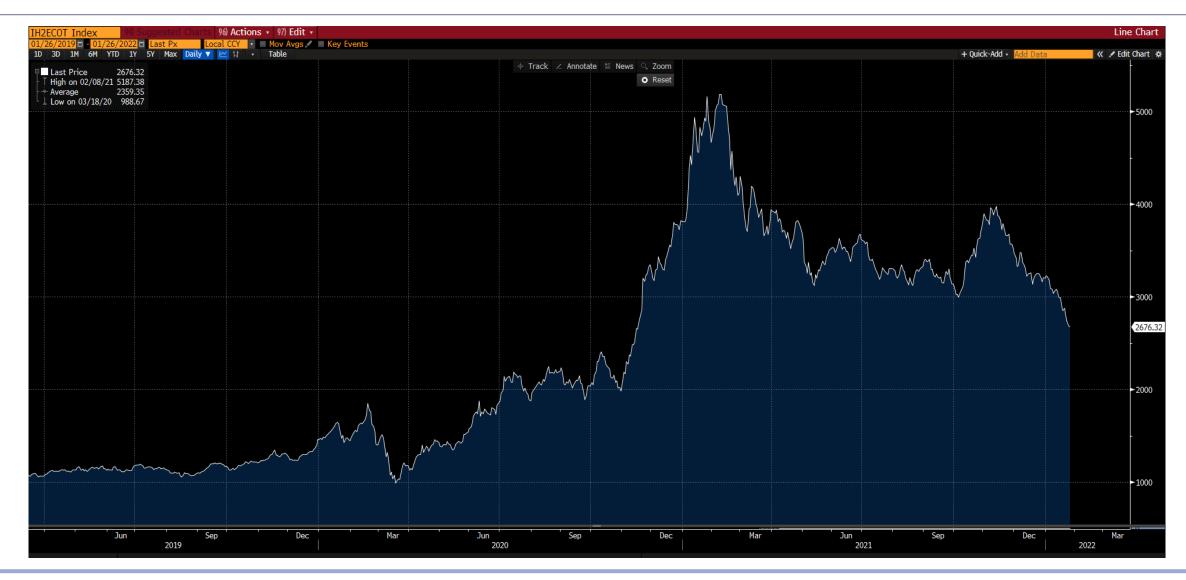
Statistic	QTD	YTD	1 Year	3 Year	Since Base Date
Beta ¹	2.12	2.12	0.99	0.97	0.97
Correlation ¹	0.60	0.60	0.61	0.62	0.62
Returns ²	-14.70%	-14.70%	-44.59%	40.34%	37.55%
Standard Deviation	21.65%	21.65%	33.40%	37.38%	36.81%

¹W.R.T.: Indxx 500 Index

²As of last trading day.



Indxx Hydrogen Economy Index









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