



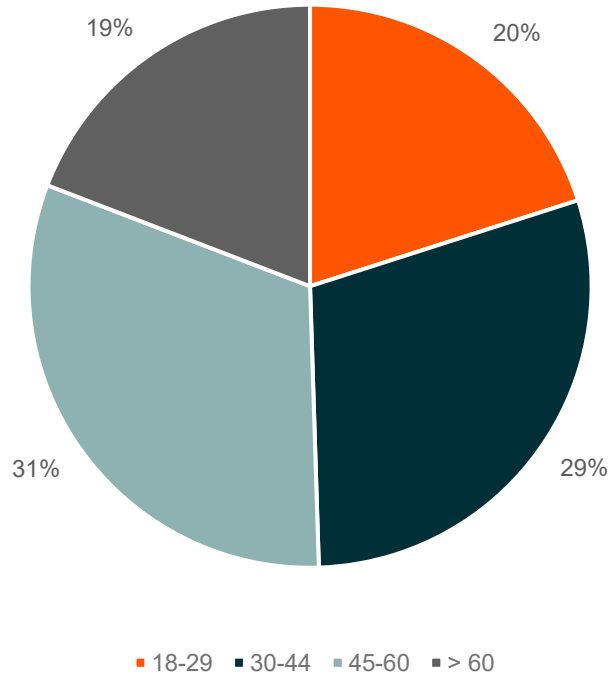
December 2023 Consumer Pulse

Clean Technology

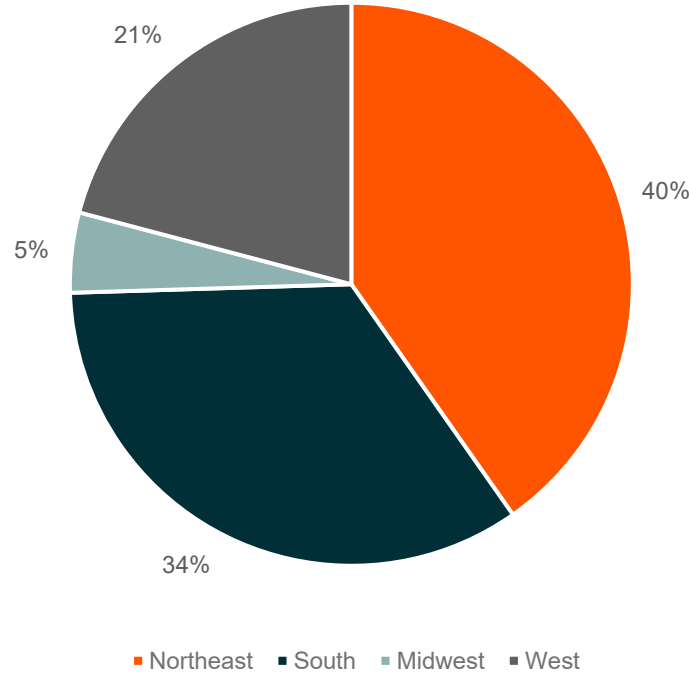
Survey: Age, Region, Lifestyle Demographic

IN DECEMBER 2023, GLOBAL X RESEARCH SURVEYED 1,002 INDIVIDUALS IN THE UNITED STATES REGARDING THEIR SENTIMENTS TOWARD CLEAN TECHNOLOGY.

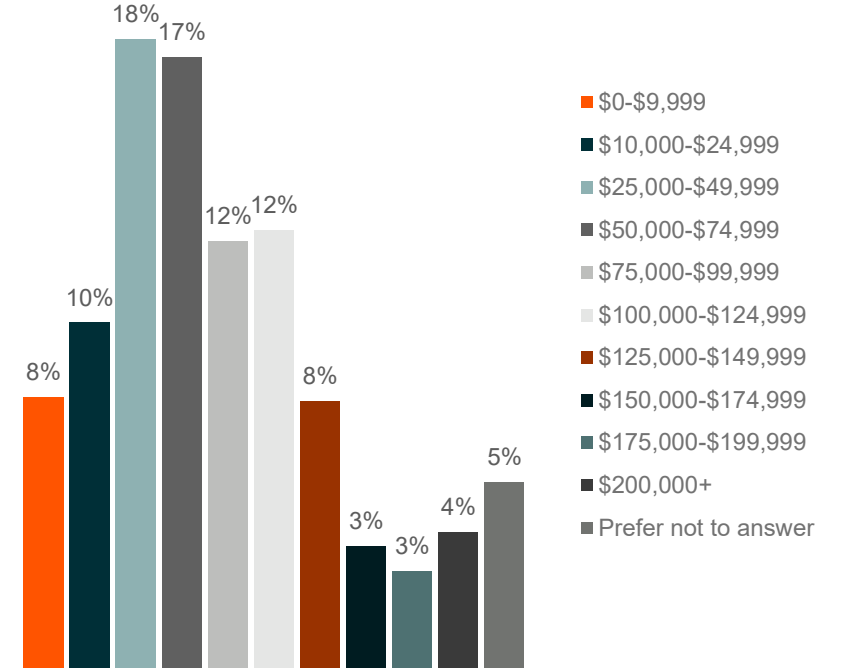
RESPONDENTS BY AGE (%)



RESPONDENTS BY REGION (%)



RESPONDENT HOUSEHOLD INCOME (%)

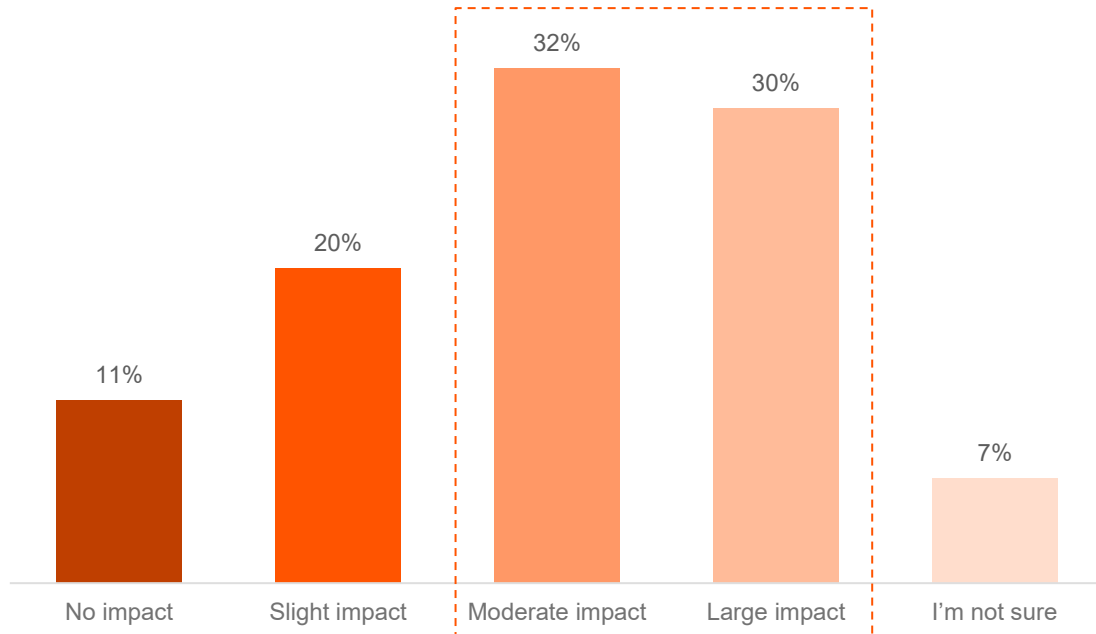


Note: N = 1,002
Source: Global X, December 2023

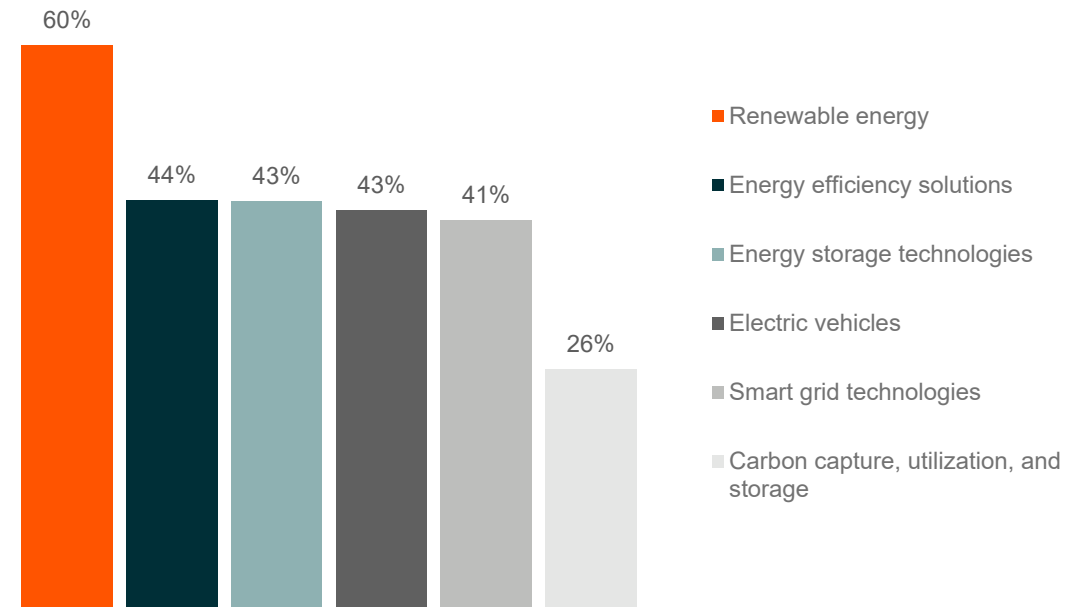
Consumers Optimistic That Cleantech Can Mitigate Climate Change, With a Belief in Renewables

MORE THAN HALF OF THE RESPONDENTS BELIEVE THAT CLEANTECH HAS A MODERATE TO LARGE IMPACT ON CLIMATE CHANGE, AND 60% BELIEVE RENEWABLES HAVE THE MOST INVESTMENT POTENTIAL.

Q: TO WHAT EXTENT DO YOU THINK CLEAN TECHNOLOGIES LIKE RENEWABLE ENERGY, ELECTRIC VEHICLES (EVS), AND LOW-CARBON HYDROGEN CAN HELP MITIGATE THE EFFECTS OF CLIMATE CHANGE?
(% OF RESPONDENTS)



Q: WHICH SPECIFIC CLEAN TECHNOLOGIES DO YOU VIEW AS HAVING PROMISING INVESTMENT POTENTIAL? (SELECT ALL THAT APPLY)
(% OF RESPONDENTS)

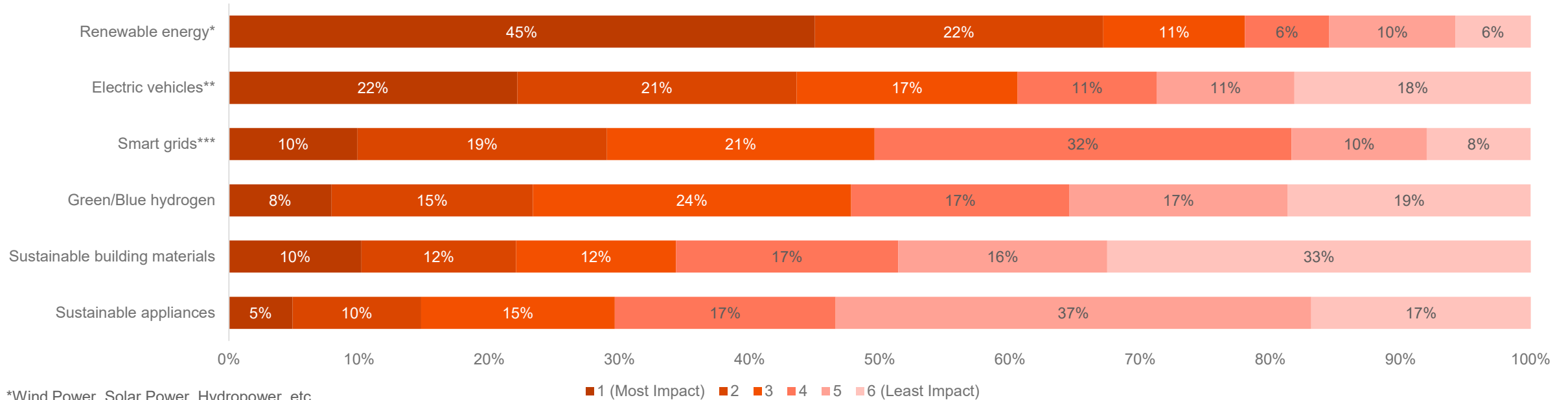


Note: N = 1,002
Source: Global X, December 2023

Renewable Energy and EVs Reign Supreme in Climate Change Mitigation

THE MAJORITY OF RESPONDENTS RANK RENEWABLE ENERGY AND ELECTRIC VEHICLES AS THE BEST OPTIONS TO MITIGATE THE IMPACT OF CLIMATE CHANGE.

RANK EACH ITEM BELOW ON HOW MUCH OF AN IMPACT YOU BELIEVE WIDESPREAD ADOPTION MIGHT HAVE ON MITIGATING THE EFFECTS OF CLIMATE CHANGE?
(% OF RESPONDENTS)



*Wind Power, Solar Power, Hydropower, etc.

**Battery EVs, plug-in hybrid EVs, hydrogen fuel cell EVs

***Technology to deliver energy efficacy on the grid across energy sources

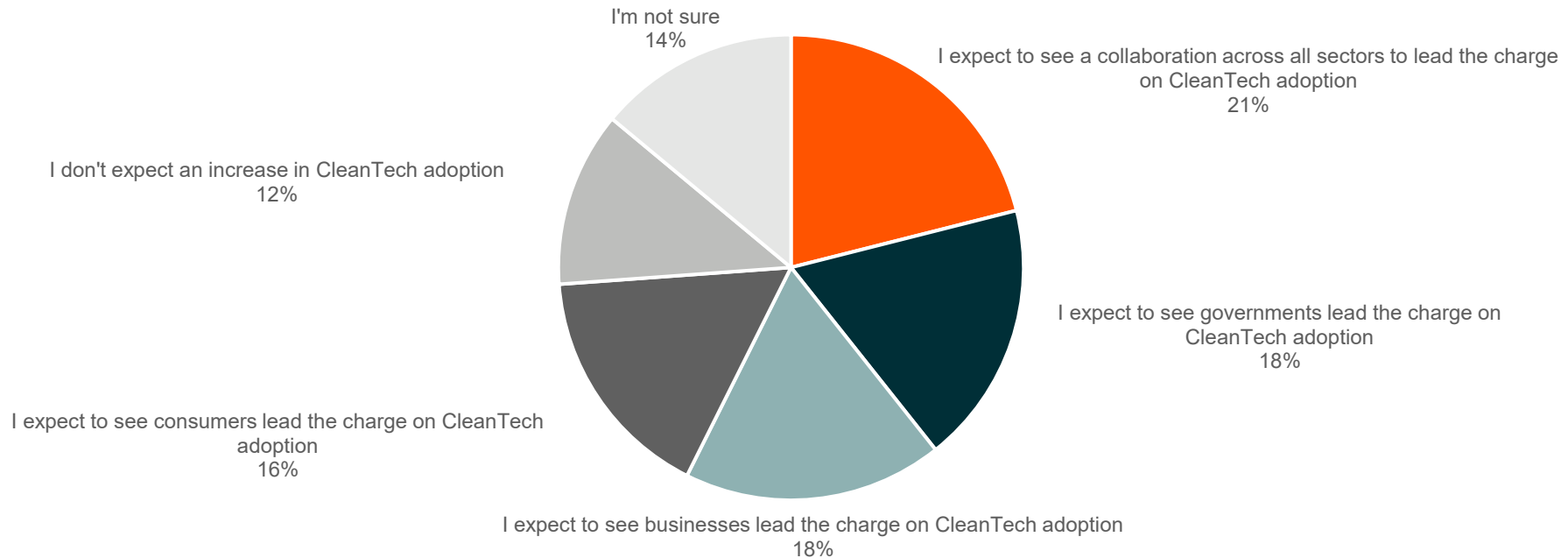
Note: N = 1,002

Source: Global X, December 2023

Speculations for Leaders of Adoption Vary, But Across Sectors CleanTech Adoption is Expected

RESPONDENTS HAVE VARYING EXPECTATIONS FOR WHO WILL BE DRIVING CLEAN TECHNOLOGY ADOPTION, BUT 73% ANTICIPATE THE ADOPTION OF CLEAN TECHNOLOGY.

WHAT IS YOUR TOP EXPECTATION FOR THE CLEAN TECHNOLOGY INDUSTRY IN 2024 AND BEYOND?
(% OF RESPONDENTS)



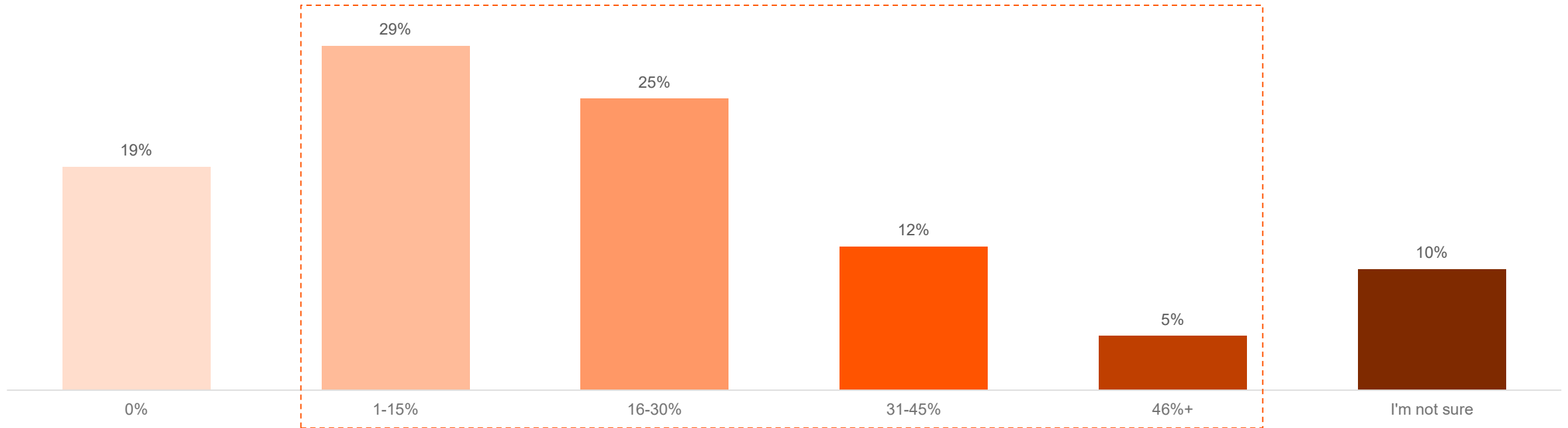
Note: N = 1,002

Source: Global X, December 2023

Respondents are Willing to Pay a Premium For Sustainable Solutions

71% OF RESPONDENTS ARE WILLING TO PAY A PREMIUM ON CLEAN TECHNOLOGY TO INCORPORATE SUSTABLE SOLUTIONS INTO THEIR LIVES.

HOW MUCH MORE ARE YOU WILLING TO PAY FOR PRODUCTS OR SERVICES THAT INCORPORATE SUSTAINABLE CLEAN TECHNOLOGY SOLUTIONS?
(% OF RESPONDENTS)



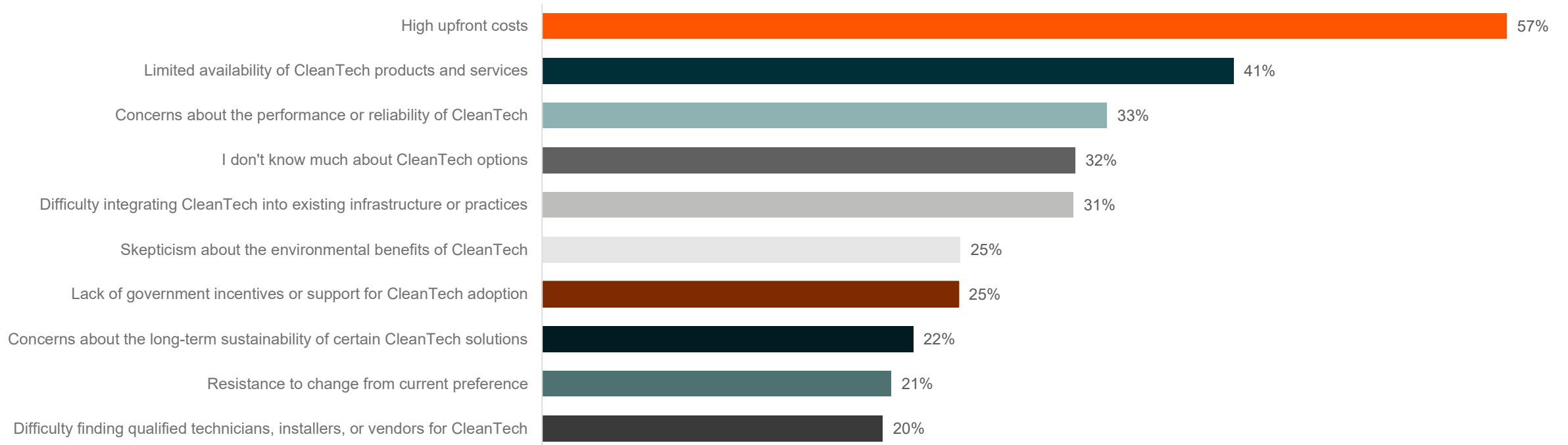
Note: N = 1,002

Source: Global X, December 2023

Cleantech Adoption: A Spectrum of Barriers

57% OF RESPONDENTS BELIEVE THE LARGEST BARRIER TO CLEAN TECHNOLOGY ADOPTION IS HIGH UPFRONT COSTS.

WHAT CHALLENGES OR BARRIERS DO YOU SEE IN ADOPTING CLEAN TECHNOLOGY IN YOUR OWN LIFE? (CHECK ALL THAT APPLY)
(% OF RESPONDENTS)



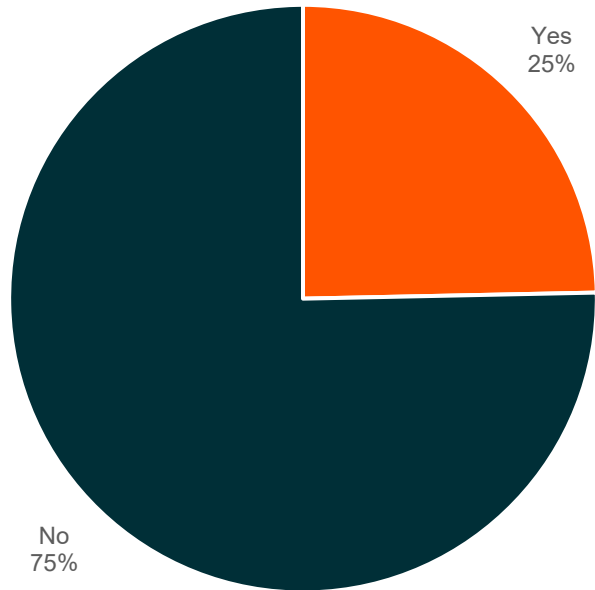
Note: N = 1,002

Source: Global X, December 2023

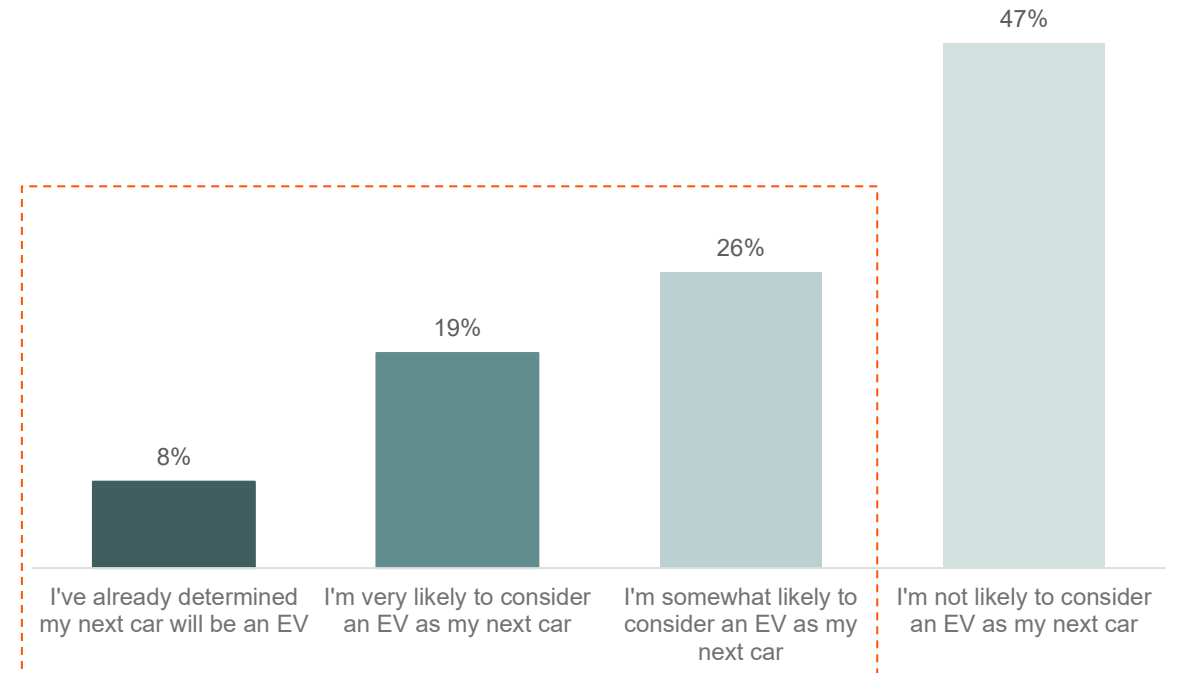
Current EV Ownership Lags, But Consumers are Open to a Change

MORE THAN HALF OF CONSUMERS WHO DON'T CURRENTLY HAVE AN ELECTRIC VEHICLE ARE OPEN TO SWITCHING FOR THEIR NEXT CAR.

HAVE YOU EVER OWNED AN ELECTRIC VEHICLE?
(% OF RESPONDENTS)



OF THE RESPONDENTS WHO ANSWERED NO, HOW LIKELY ARE YOU
TO CONSIDER AN EV AS YOUR NEXT VEHICLE?
(% OF RESPONDENTS)

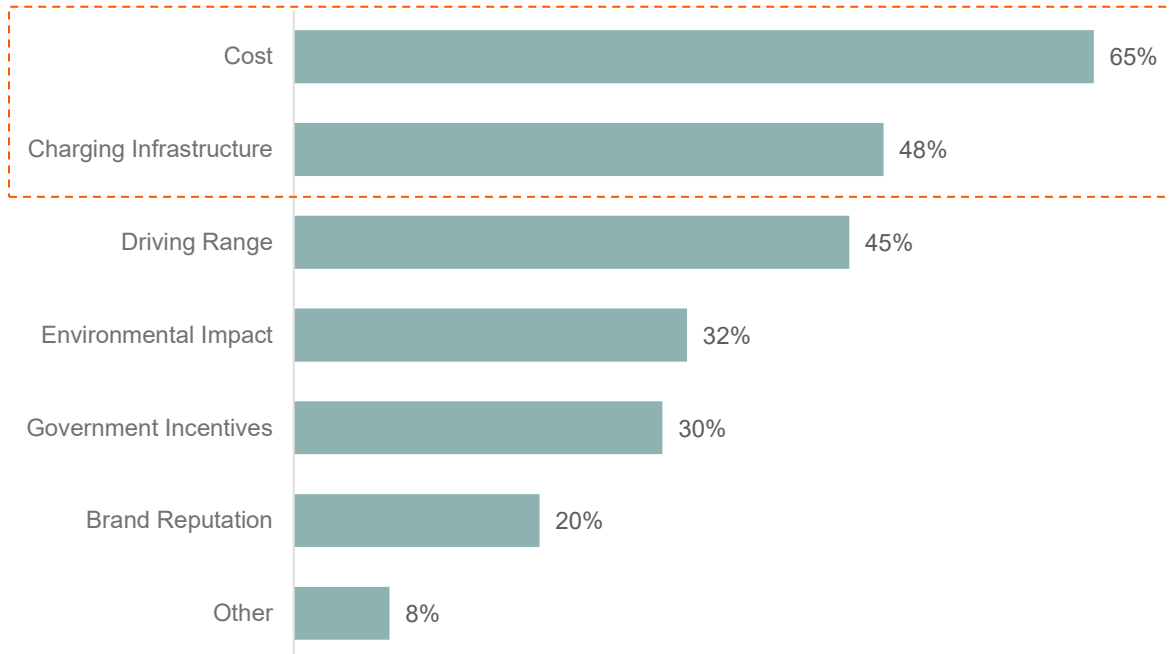


Note: N = 1,002
Source: Global X, December 2023

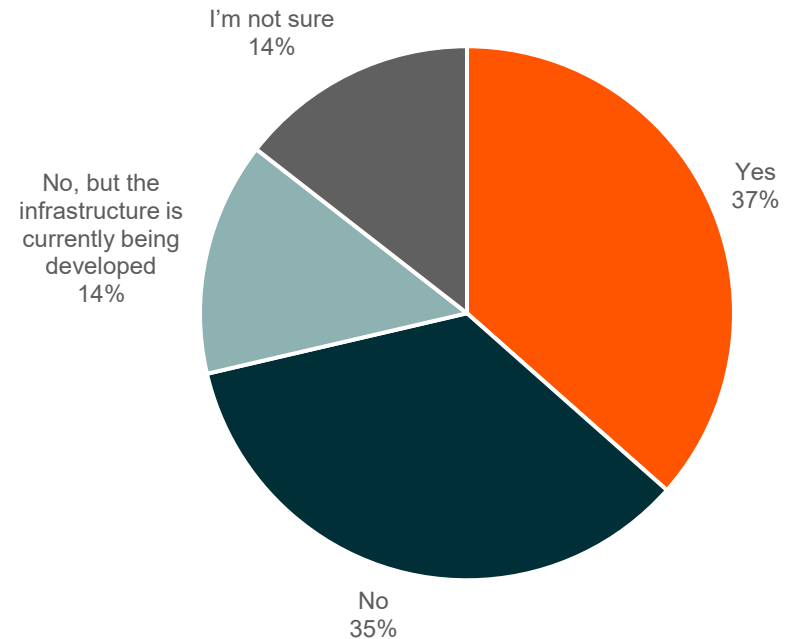
High Cost and Charging Infrastructure are Key Influences for EV Adoption

COST CONCERNS AND CHARGING INFRASTRUCTURE ARE KEY DECISION FACTORS FOR EV ADOPTION. 37% OF CONSUMERS FEEL THERE IS SUITABLE CHARGING INFRASTRUCTURE FOR EVS WHERE THEY LIVE.

WHAT FACTORS WOULD INFLUENCE YOUR DECISION TO PURCHASE AN ELECTRIC VEHICLE? (SELECT ALL THAT APPLY)
(% OF RESPONDENTS)



WHERE YOU LIVE, DO YOU BELIEVE THERE IS SUITABLE INFRASTRUCTURE TO OWN A HYDROGEN OR ELECTRIC VEHICLE CONVENIENTLY?
(% OF RESPONDENTS)



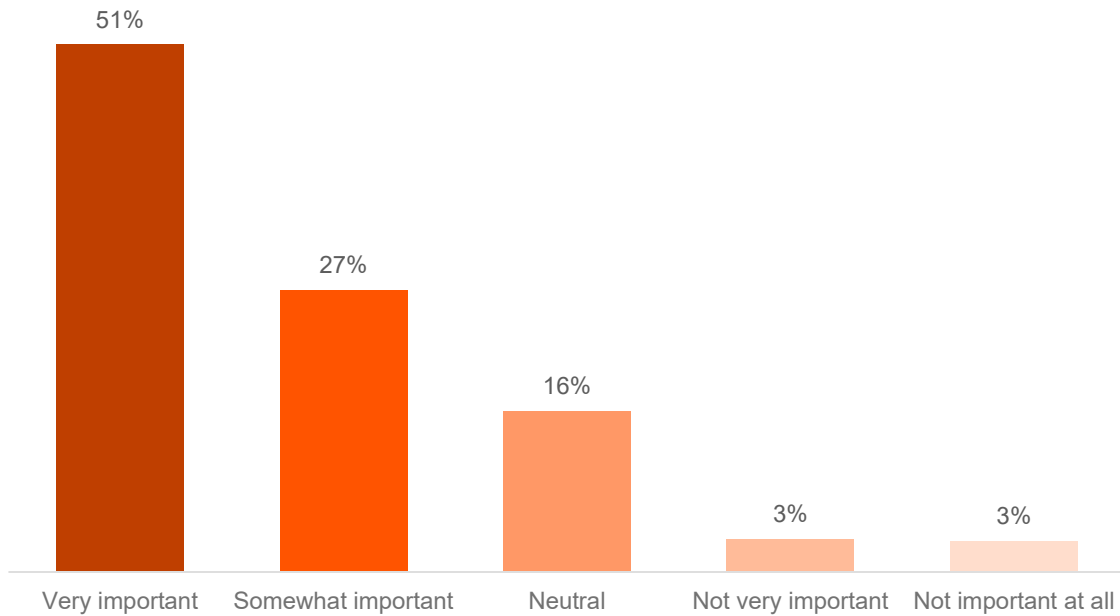
Note: N = 1,002

Source: Global X, December 2023

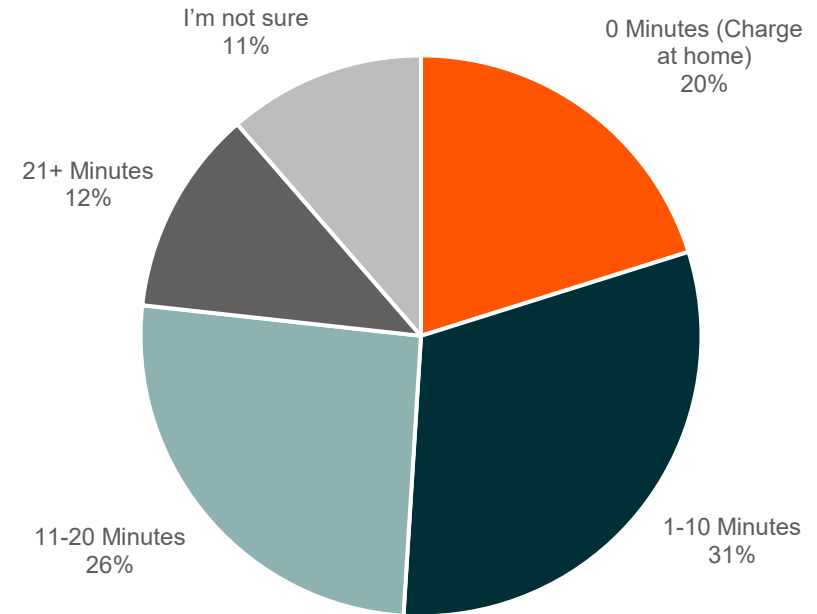
Charging Speed and Proximity to Charging Stations Are Top Priorities

ONE IN FIVE CONSUMERS ONLY WANT TO CHARGE THEIR EVS AT HOME. ANOTHER THIRD ARE WILLING TO DRIVE UP TO 10 MINUTES - DEMONSTRATING A GROWING NEED FOR CHARGING INFRASTRUCTURE.

HOW IMPORTANT IS THE REFUELING/CHARGING SPEED TO YOU WHEN CONSIDERING A HYDROGEN OR ELECTRIC VEHICLE? (% OF RESPONDENTS)



HOW FAR ARE YOU WILLING TO TRAVEL TO REGULARLY CHARGE/REFUEL YOUR VEHICLE? (% OF RESPONDENTS)



Note: N = 1,002

Source: Global X, December 2023

Global X's Thematic Growth ETF Suite

GLOBAL X'S FUND SUITES COMPRISE OF 109 ETFS IN TOTAL, SPANNING THEMATIC GROWTH, INCOME, INTERNATIONAL ACCESS, COMMODITIES, RISK MANAGEMENT, AND OTHER STRATEGIES.

Disruptive Technology

Social Media ETF (SOCL)
Lithium & Battery Tech ETF (LIT)
FinTech ETF (FINX)
Internet of Things ETF (SNSR)
Robotics & Artificial Intelligence ETF (BOTZ)
Autonomous & Electric Vehicles ETF (DRIV)
Artificial Intelligence & Technology ETF (AIQ)
Cloud Computing ETF (CLOU)
Video Games & Esports ETF (HERO)
Cybersecurity ETF (BUG)
Data Center REITs & Digital Infrastructure ETF (VPN)
Blockchain & Bitcoin Strategy ETF (BITS)
Blockchain ETF (BKCH)
Metaverse ETF (VR)
PropTech ETF (PTEC)
Defense Tech ETF (SHLD)

People & Demographics

Millennial Consumer ETF (MILN)
Aging Population ETF (AGNG)
Health & Wellness ETF (BFIT)
E-commerce ETF (EBIZ)
Cannabis ETF (POTX)
Telemedicine & Digital Health ETF (EDOC)
Genomics & Biotechnology ETF (GNOM)
China Biotech Innovation ETF (CHB)

Multi-Theme

Thematic Growth ETF (GXTG)

Physical Environment

U.S. Infrastructure Development ETF (PAVE)
Renewable Energy Producers ETF (RNRG)
CleanTech ETF (CTEC)
Clean Water ETF (AQWA)
Wind Energy ETF (WNDY)

Solar ETF (RAYS)
Hydrogen ETF (HYDR)
AgTech & Food Innovation ETF (KROP)
Disruptive Materials ETF (DMAT)
Green Building ETF (GRNR)
Carbon Credits Strategy ETF (NTRL)

1. As of 12/14/2023. US-registered funds.

Global X's Thematic Growth ETF Suite

GLOBAL X'S FUND SUITES COMPRISE OF 109 ETFS IN TOTAL, SPANNING THEMATIC GROWTH, INCOME, INTERNATIONAL ACCESS, COMMODITIES, RISK MANAGEMENT, AND OTHER STRATEGIES.

Dividend

SuperDividend ETF (SDIV)
 SuperDividend U.S. ETF (DIV)
 MSCI SuperDividend EAFE ETF (EFAS)
 MSCI SuperDividend Emerging Markets ETF (SDEM)
 SuperDividend REIT ETF (SRET)
 Alternative Income ETF (ALTY)
 S&P 500 Quality Dividend ETF (QDIV)

Covered Call

Dow 30 Covered Call ETF (DJIA)
 Dow 30 Covered Call & Growth ETF (DYLG)
 Nasdaq 100 Covered Call ETF (QYLD)
 S&P 500 Covered Call ETF (XYLD)
 Russell 2000 Covered Call ETF (RYLD)
 Nasdaq 100 Covered Call & Growth ETF (QYLG)
 S&P 500 Covered Call & Growth ETF (XYLG)
 Russell 2000 Covered Call & Growth ETF (RYLG)
 Financials Covered Call & Growth ETF (FYLG)
 Information Technology Covered Call & Growth ETF (TYLG)

Health Care Covered Call & Growth ETF (HYLG)
 Nasdaq 100 ESG Covered Call ETF (QYLE)
 S&P 500 ESG Covered Call ETF (XYLE)
 MSCI Emerging Markets Covered Call ETF (EMCC)

Preferreds

U.S. Preferred ETF (PFFD)
 Variable Rate Preferred ETF (PFFV)
 SuperIncome Preferred ETF (SPFF)

MLPs

MLP ETF (MLPA)
 MLP & Energy Infrastructure ETF (MLPX)

Fixed Income

Emerging Markets Bond ETF (EMBD)
 1-3 Month T-Bill ETF (CLIP)
 U.S. Cash Flow Kings ETF (FLOW)
 Risk Managed Income
 Nasdaq 100 Risk Managed Income ETF (QRMI)
 S&P 500 Risk Managed Income ETF (XRMI)
 Interest Rate Volatility & Inflation Hedge ETF (IRVH)

Alpha

Guru Index ETF (GURU)

Adaptive

Adaptive U.S. Factor ETF (AUSF)

China Sector

MSCI China Energy ETF (CHIE)
 MSCI China Materials ETF (CHIM)
 MSCI China Industrials ETF (CHII)
 MSCI China Consumer Discretionary ETF (CHIQ)
 MSCI China Consumer Staples ETF (CHIS)
 MSCI China Health Care ETF (CHIH)
 MSCI China Financials ETF (CHIX)
 MSCI China Information Technology ETF (CHIK)
 MSCI China Communication Services ETF (CHIC)

1. As of 12/14/2023. US-registered funds.

Global X's Thematic Growth ETF Suite

GLOBAL X'S FUND SUITES COMPRISE OF 109 ETFS IN TOTAL, SPANNING THEMATIC GROWTH, INCOME, INTERNATIONAL ACCESS, COMMODITIES, RISK MANAGEMENT, AND OTHER STRATEGIES.

MSCI China Utilities ETF (CHIU)

MSCI China Real Estate ETF (CHIR)

Single-Country

MSCI Argentina ETF (ARGT)

DAX Germany ETF (DAX)

MSCI Greece ETF (GREK)

MSCI Colombia ETF (GXG)

MSCI Nigeria ETF (NGE)

MSCI Norway ETF (NORW)

MSCI Pakistan ETF (PAK)

MSCI Portugal ETF (PGAL)

MSCI Vietnam ETF (VNAM)

India Active ETF (NDIA)

Brazil Active ETF (BRAZ)

Regional

MSCI Next Emerging & Frontier ETF (EMFM)

FTSE Southeast Asia ETF (ASEA)

Emerging Markets ETF (EMM)

Emerging Markets Great Consumer ETF (EMC)

Interest Rate Hedge ETF (RATE)

Commodities

Silver Miners ETF (SIL)

Gold Explorers ETF (GOEX)

Copper Miners ETF (COPX)

Uranium ETF (URA)

Sustainable Investing

Conscious Companies ETF (KRMA)

Carbon Credits Strategy ETF (NTRL)

Faith-Based

S&P 500 Catholic Values ETF (CATH)

S&P 500 Catholic Values Developed ex-U.S. ETF (CEFA)

Risk Management

Adaptive U.S. Risk Management ETF (ONOF)

Nasdaq 100 Collar 95-110 ETF (QCLR)

Nasdaq 100 Tail Risk ETF (QTR)

S&P 500 Collar 95-110 ETF (XCLR)

S&P 500 Tail Risk ETF (XTR)

1. As of 12/14/2023. US-registered funds.

Risk Information

Investing involves risk including the possible loss of principal. Narrowly focused investments may be subject to higher volatility. The investable universe for thematic ETFs may be limited. Technology themed investments may be subject to rapid changes in technology, intense competition, rapid obsolescence of products and services, loss of intellectual property protections, evolving industry standards and frequent new product productions, and changes in business cycles and government regulation.

CleanTech Companies typically face intense competition, short product lifecycles and potentially rapid product obsolescence. These companies may be significantly affected by fluctuations in energy prices and in the supply and demand of renewable energy, tax incentives, subsidies and other governmental regulations and policies. International investments may involve risk of capital loss from unfavorable fluctuation in currency values, from differences in generally accepted accounting principles or from social, economic or political instability in other nations.

Carefully consider the Funds' investment objectives, risk factors, charges, and expenses before investing. This and additional information can be found in the Funds' summary or full prospectus, which may be obtained by calling 1.888.493.8631, or by visiting globalxetfs.com. Please read the prospectus carefully before investing.

Global X Management Company LLC serves as an advisor to Global X Funds. The Funds are distributed by SEI Investments Distribution Co. (SIDCO), which is not affiliated with Global X Management Company LLC or Mirae Asset Global Investments.

This information is not intended to be individual or personalized investment or tax advice and should not be used for trading purposes. Please consult a financial advisor or tax professional for more information regarding your investment and/or tax situation.

No content contained in these materials or any part thereof ("Content") may be modified, reverse engineered, reproduced or distributed in any form or by any means, or stored in a database or retrieval system, without the prior written permission of Global X. The Content shall not be used for any unlawful or unauthorized purposes. Global X does not guarantee the accuracy, completeness, timeliness or availability of the Content and is not responsible for any errors or omissions, regardless of the cause, for the results obtained from the use of the Content.

THE CONTENT IS PROVIDED ON AN "AS IS" BASIS. GLOBAL X AND ITS AFFILIATES DISCLAIM ANY AND ALL EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE OF THE CONTENT.

In no event shall Global X or its affiliates be liable to any party for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including, without limitation, lost income or lost profits and opportunity costs) in connection with any use of the Content even if advised of the possibility of such damages."