

Vive la Hydrocarbons, Vive la Petrochemicals

The Russia/Ukraine war continues to shine a spotlight on the importance of fossil fuels to the global economy. While benefitting from higher oil prices brought on by Russian oil sanctions, this company offers investors much more than a short-term oil play. TotalEnergies SE (TTE: \$57/share) is well-positioned to supply growing energy and petrochemicals demand for decades and is this week's <u>Long Idea</u>.

Learn more about the best fundamental research

TTE presents quality risk/reward given the company's:

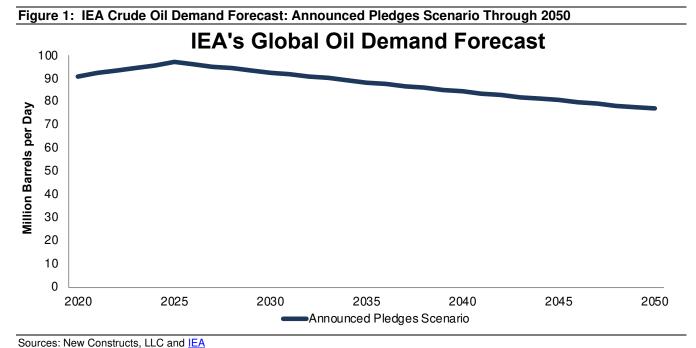
- multi-energy strategy that positions the company for long-term growth in energy markets
- superior profitability to peers
- strong free cash flow (FCF) generation to fund alternative energy investments
- shares are worth \$102+ even if profits fall 33% from current levels

Fossil Fuels Still Have a Big Future

Demand for crude oil will persist for decades, which appears to be a fact forgotten by many investors, given the undervalued prices of many energy firms, such as Petrobras (PBR), Shell (SHEL), Phillips 66 (PSX), HF Sinclair (DINO), and TotalEnergies.

According to the International Energy Agency's (IEA) most recent announced pledges scenario (APS), global crude oil demand will rise until 2025 before falling 1% compounded annually from 2026 to 2050. This scenario means crude oil demand in 2050 is just 16% below 2021 levels.

However, the APS demand scenario is likely overly optimistic in its assumptions of the world's ability to transition away from crude oil dependence. As we pointed out in our report on Shell, climate pledges with no repercussions are very unreliable. Indeed, at the beginning of 2022, the IEA raised its 2022 demand forecast to 99.7 m/bpd, which is well above the peak crude oil demand in its APS forecast of 97 m/bpd in 2025. It should be noted that the IEA forecasts are notorious for taking the current price of oil and projecting it to perpetuity, resulting in long-term demand forecasts that swing back and forth with the winds of *current* demand.





Russia Sanctions Open the Door to Long-Term Opportunity...

Before the war in Ukraine, Russia supplied the EU with ~25% of its <u>crude oil imports</u> in 2020 and 41% of its <u>natural gas imports</u> in 2019. The sanctions on Russia remove multiple large state-affiliated competitors in Europe, providing a much more favorable operating environment for supermajors such as TotalEnergies.

Europe is already looking to source its energy needs elsewhere, and the U.S. has agreed to ship an additional 15 billion cubic meters of LNG to Europe by the end of 2022. The increased demand for U.S. LNG benefits TotalEnergies, which operates the second largest publicly traded LNG business in the world and accounted for ~10% of all U.S. LNG exports in 2021.

Down the line, TotalEnergies is positioned to benefit from increased investments in North Africa, the Mediterranean, and the Middle East as Europe drives to replace Russian oil.

...and Are Already a Net Gain

Recent sanctions inhibiting the export of liquid natural gas technology threaten TotalEnergies' Russian investments. The company deployed \$13.7 billion of capital in Russia before its recent \$4.1 billion write-down in 1Q22. However, TotalEnergies is not the only supermajor that made a bad bet in Russia. The <u>combined write-downs</u> of the five largest supermajors' exit from Russia totaled \$34 billion in 1Q22.

Nonetheless, the large increase in fossil fuel prices since the beginning of the war in Ukraine more than offsets TotalEnergies' exposure to Russia. The company's Russian upstream assets accounted for just 2.5% of total operating cash flow (before working capital changes) in 1Q22. Despite an 82% year-over-year (YoY) fall in operating cash flow from Russian upstream assets in 1Q22, operating cash flow from all segments soared 117% YoY.

EVs Don't Affect Demand for Fossil Fuels as Much as People Think

The growth of internal combustion engine (ICE) vehicles over the next three decades will contribute to sustained demand for oil and gas products. Even if the world adopts electric vehicles (EVs) in line with the EIA's expectations, there will still be ~15% more ICE vehicles on the road in 2050 than in 2020. In addition, analysis on the EV market frequently ignore the number of *diesel-fueled* heavy engines needed to dig the minerals needed for batteries out of the ground and move the components back and forth during refining and manufacturing.

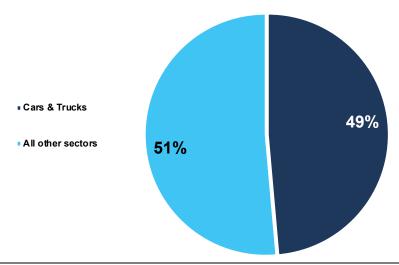
The EIA estimates the entire global light-duty vehicle fleet will grow from 1.3 billion in 2020 to 2.2 billion in 2050 and expects 31% of the global light-duty vehicle fleet to be EVs. Despite the significant growth in the percentage of EVs on the road, ICE vehicles will account for 1.5 billion vehicles in 2050, or two million more ICE vehicles than were on the road in 2020.

Even more importantly, cars and trucks only account for 49% of all crude oil demand for Organization for Economic Co-operation and Development (<u>OECD</u>) countries, per Figure 2. More than half of crude oil demand stems from other segments that are vital to economic development including petrochemicals, commercial, agriculture, aviation, marine shipping, electricity generation, and rail transportation.



Figure 2: Distribution of Crude Oil Demand by Sector in OECD Countries: 2020

Cars & Trucks Are Just Half of OECD Oil Demand



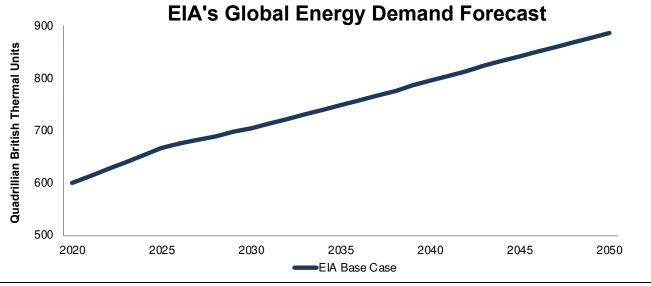
Source: New Constructs, LLC and Statista.

With or Without Oil, Global Energy Demand Will Growth

Even if global demand for crude oil eventually declines, demand for energy will not, and natural gas will inevitably play a large part in the transition away from crude oil and coal.

Figure 3 shows the U.S. Energy Information Administration's (EIA) <u>base-case scenario</u> for global energy (coal, crude oil, natural gas, electricity, and renewables) demand from 2020 through 2050. In this scenario, the EIA expects energy demand to grow 47% over the next three decades, with demand for <u>natural gas</u> growing 31% from 2020 to 2050.

Figure 3: EIA Energy Demand Forecast: Base Case Through 2050



Sources: New Constructs, LLC and EIA.

Natural Gas Is a Cleaner Energy

The trade-off for being "cleaner" is that the energy density of methane, the primary component of natural gas, is much lower than coal. The world found a solution to this dilemma in liquification.



TotalEnergies has quickly grown its liquified natural gas (LNG) business to take advantage of the growing demand for natural gas. TotalEnergies' LNG sales grew from 15.6 million metric tons (Mt) in 2017 to 42 Mt in 2021, or 28% compounded annually.

The company has several projects in the works that will increase its LNG capacity. These projects include:

- Tyra natural gas with 60,000 boe of annual capacity
- <u>Ichthys</u> LNG JV with 8.9 Mt of annual capacity
- Cameron LNG JV extension with 6.8 Mt additional annual capacity

Renewable Energy Drives Production Growth

Though crude oil is a significant part of its business, the company is focused on transitioning away from its reliance on it. TotalEnergies' crude oil product sales fell from 65% of all sales in 2015 to just 44% in 2021.

While the growth of the company's natural gas and LNG business have most significantly contributed to its ability to shift away from crude oil, TotalEnergies also aims to quickly grow its renewable energy (solar, wind, biogas, and biofuels) business. Per Figure 4, TotalEnergies plans to increase its installed renewable power capacity by ~10x, from 10.3 GW in 2021 to 100 GW in 2030, or 1.7x the <u>installed capacity</u> of France's nuclear plants.

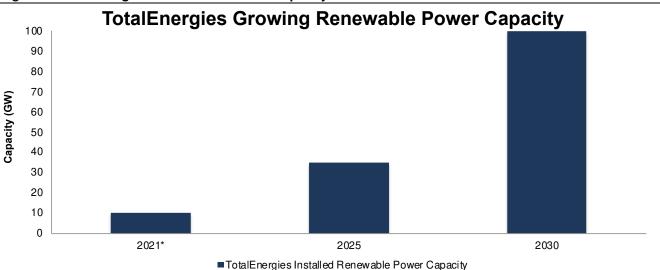


Figure 4: TotalEnergies' Renewable Power Capacity Goals

Sources: New Constructs, LLC and company filings.

EV Is an Opportunity, Not a Threat

TotalEnergies' global presence and experience in managing large energy projects position the company to scale its emerging EV charge point business. TotalEnergies operates in 130 countries across the globe and has nearly 16,000 service stations, which it can leverage to add more charge point capacity. The company plans to grow the number of charge points it operates by 6x, from ~25,000 in 2021, to 150,000 in 2025.

Below are some of the locations and number of TotalEnergies' charge points in operation or under construction:

- Greater Amsterdam, the Netherlands 22,000
- Wuhan, China 11,000
- Antwerp, Belgium 3,000
- Paris, France 2,300
- London, England 1,700
- Singapore 1,500

Record Profits Come with Political Risk

Fossil fuel companies reported record profits in 1Q22 in the wake of the war in Ukraine, and the large windfall is drawing attention from governments, especially in Europe. The European Commission is proposing EU members



tax fossil fuel profits to fund renewable energy measures. However, given TotalEnergies' growing investment in renewable electricity, the company is positioned to benefit from increased tax-funded incentives even if it comes at the expense of its fossil fuel-driven profits.

Even before the Ukraine war, France was investigating the feasibility of taxing profits from fossil fuel companies to assist countries lacking energy resources. However, if such a tax were to pass, it would likely affect the entire industry, and not just TotalEnergies. In commenting about the proposal, the French economy minister stated, "We can't penalise just Total to the benefit of other big oil groups who would not be subject to this constraint."

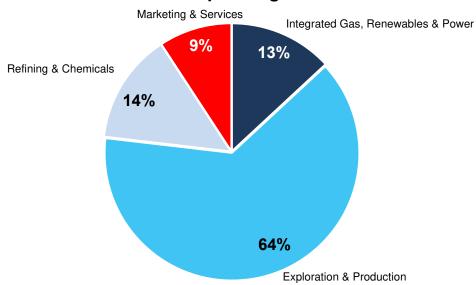
Though the discussion of windfall taxes may make nice headlines for politicians, in actuality, they are likely to be limited if implemented. Excessive taxation on fossil fuel companies is ultimately not in the best interest for Europe, especially now, and would dampen its efforts to become independent from Russian energy.

Alternative Energy Investments Are Paying Off

TotalEnergies' investments in LNG, electricity, and renewable energy significantly contribute to the company's operating income. TotalEnergies' Integrated Gas, Renewables and Power segment's operating income has grown from \$226 million in 2017 to \$3.4 billion in 2021. In 2021, this segment accounted for 13% of total operating income, up from just 1% in 2017.

Figure 5: TotalEnergies' Operating Income by Segment: 2021





Sources: New Constructs, LLC and company filings.

More Profitable Than Peers

TotalEnergies has effectively invested its capital as it pursues a long-term transition away from crude oil. Its net operating profit after-tax (NOPAT) margin has risen from 8% in 2017 to 11% over the trailing twelve months (TTM), while its invested capital turns improved from 0.8 to 1.0 over the same time. Rising NOPAT margins and invested capital turns drive the company's return on invested capital (ROIC) from 6% in 2017 to 11% TTM.

TotalEnergies' ROIC of 11% over the TTM is second only to Eni (E) among all supermajor peers. See Figure 6.



Figure 6: TotalEnergies' Profitability Vs. Supermajors: TTM

Company	Ticker	NOPAT Margin	Invested Capital Turns	ROIC
ENI S.p.A.	E	12%	1.1	13%
TotalEnergies SE	TTE	11%	1.0	11%
Exxon Mobil Corp	XOM	13%	0.8	10%
Chevron Corporation	CVX	13%	0.7	9%
ConocoPhillips	COP	23%	0.4	9%
Shell, PLC	SHEL	9%	0.8	7%
BP, PLC	BP	8%	0.7	6%
Market-Cap-Weighted Avg of F	Cap-Weighted Avg of Peers		0.7	9%

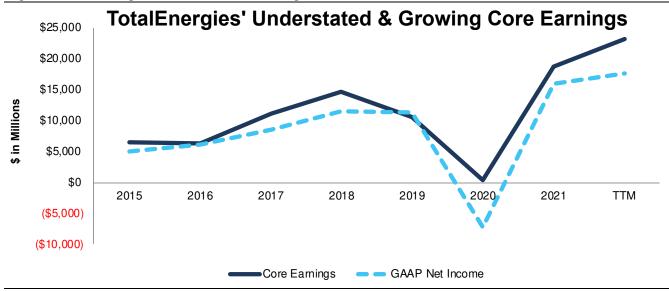
Sources: New Constructs, LLC and company filings

Core Earnings Are Understated

TotalEnergies' profitable legacy fossil fuel business helped the company generate positive <u>Core Earnings</u> in each of the past 10 years. However, the company has grown its Core Earnings even as it has transitioned more of its business away from crude oil products. TotalEnergies grew Core Earnings from \$6.6 billion in 2015 to \$23.3 billion over the TTM.

Not only are TotalEnergies' Core Earnings growing, but they are higher than GAAP earnings. Over the TTM, TotalEnergies' Core Earnings are \$5.7 billion, or 32%, higher than GAAP earnings, per Figure 7.

Figure 7: TotalEnergies' GAAP & Core Earnings Since 2015



Sources: New Constructs, LLC and company filings.

TotalEnergies' Free Cash Flow Supports Alternative Investments

TotalEnergies generates significant cash flow that the business can use to fund the expansion of its LNG, renewables, and power generation operations. Over the past five years, TotalEnergies generated \$34.1 billion (24% of market cap) in free cash flow (FCF), which is 1.3x ConocoPhillips' (COP), 1.8x Eni's, and 96% of BP's (BP) five-year cumulative FCF.

\$34B in FCF Over the Past 5 Years \$40.000 \$35,000 \$30,000 in millions \$25,000 \$20,000 \$15,000 \$10,000 \$5,000 \$0 2020 Cumulative FCF 2017 2018 2021 TTM 1Q22 2019

Figure 8: TotalEnergies' Cumulative Free Cash Flow Since 2017

Sources: New Constructs, LLC and company filings

TotalEnergies' Stock Is Cheaper Than Peers

Even though TotalEnergies is consistently profitable, generates strong FCF, and is well-positioned to meet future global energy demand, its stock is priced for permanent profit decline and is cheaper than its peers'. The company's price-to-economic book value (<u>PEBV</u>) three-year average ratio¹ of 0.6 means the stock is priced for profits to fall, permanently, by 40% from its average over the last three years.

Figure 9: TotalEnergies' 3-Year Average PEBV Ratio Vs. Peer Group

Company	Market Cap	3-Year Economic Book Value	3-Year Avg PEBV Ratio
TotalEnergies	\$142	\$237	0.6
Combined Peer Group*	\$1,221	\$862	1.4

Sources: New Constructs, LLC and company filings *Peer group includes same companies listed in Figure 6

Below we use our <u>reverse discounted cash flow (DCF) model</u> to analyze the future cash flow expectations baked into TotalEnergies' stock price. We also provide an additional scenario to highlight the upside potential in shares if TotalEnergies grows revenue at consensus rates.

DCF Scenario 1: to Justify the Current Stock Price.

We assume TotalEnergies':

- NOPAT margin falls to 7% (5-year average from 2015-2019 vs. 11% TTM) in 2022 through 2036, and
- revenue falls at a 2% CAGR from 2022 2036 (vs. consensus estimate of +4% CAGR from 2022 2024)

In this <u>scenario</u>, TotalEnergies' NOPAT falls 4% compounded annually over the next 15 years and the stock is worth \$57/share today – equal to the current price. In this scenario, TotalEnergies earns \$11 billion in NOPAT in 2036, which is 56% below TTM levels and 11% below its 10-year average NOPAT.

DCF Scenario 2: Shares Are Worth \$81+.

If we assume TotalEnergies':

- NOPAT margin falls to 7%,
- revenue grows at a 4% CAGR from 2022 2024 (equal to consensus estimate CAGR from 2022 2024), and

¹ For this analysis, we calculate PEBV ratio as market cap / three-year average EBV. Using three-year average EBV provides a more normalized EBV after the record drop in profits in 2020 and subsequent rise in 2021.



revenue falls at a 1% CAGR from 2025-2036 then

TTE is worth \$81/share today – a 42% upside to the current price. In this scenario, TotalEnergies' NOPAT still falls to \$14.1 billion in 2036, or 44% below TTM levels. In this scenario, TotalEnergies' ROIC in 2036 is just 4.9%, which is well-below its 10-year average ROIC of 6.3%. Should TotalEnergies' ROIC remain in line with historical levels, the stock has even more upside.

DCF Scenario 3: More Upside Should Margins Remain in Line with Peers

Each of the above scenarios assumes TotalEnergies' NOPAT margin immediately falls to its pre-COVID five-year average, which is 29% of ConocoPhillips', 54% of ExxonMoblil's (XOM), and 87% of BP's TTM NOPAT margins. At 7%, TotalEnergies' NOPAT margin from 2022 – 2036 would be 15% below the pre-COVID three-year average NOPAT margin of its peer group from 2017 to 2019. Should the company's margins fall in line with pre-COVID peer levels, the stock has even more upside.

If we assume TotalEnergies':

- NOPAT margin falls the three-year peer group average from 2017-2019 of 8%,
- revenue grows at a 4% CAGR from 2022 2024 (equal to consensus estimate CAGR from 2022 2024), and
- revenue falls at a 1% CAGR from 2025-2036 then

TTE is worth \$\frac{\$102/\share today}{\$102/\share today}\$ – a 79% upside to the current price. In this scenario, TotalEnergies' NOPAT in 2036 is \$16.6 billion, or 33% below TTM levels.

Figure 10 compares TotalEnergies' historical NOPAT to the NOPAT implied in each of the above DCF scenarios.

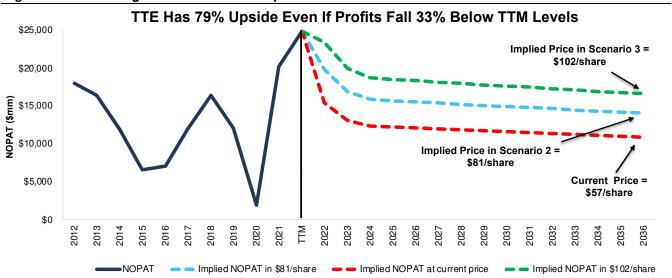


Figure 10: TotalEnergies' Historical and Implied NOPAT: DCF Valuation Scenarios

Sources: New Constructs, LLC and company filings.

Sustainable Competitive Advantages Will Drive Shareholder Value Creation

Here's a summary of why we think the moat around TotalEnergies' business will enable it to continue to generate higher NOPAT than the current market valuation implies. The following competitive advantages also help TotalEnergies grow in a transitioning market:

- engineering and project management expertise
- large physical network of 16,000 services stations and 25,000 EV charge points across the globe
- · large cash-flow generating business to fund new investments
- high profitability compared to peers



What Noise Traders Miss With TotalEnergies

These days, fewer investors focus on finding quality capital allocators with shareholder friendly corporate governance. Instead, due to the <u>proliferation of noise traders</u>, the focus is on short-term technical trading trends while <u>more reliable fundamental research</u> is overlooked. Here's a quick summary of what noise traders are missing:

- the persistence of global dependency on fossil fuels
- long-term rise of global energy demand
- growth potential within TotalEnergies' LNG and renewable energy projects
- valuation implies TTE is relatively much cheaper than the stocks of other supermajor peers

Earnings Beats and a Sustained Oil Prices Could Send Shares Higher

TTE earns our Beat <u>Earnings Distortion Score</u> because GAAP earnings materially understate Core Earnings. This score indicates that TotalEnergies has a high likelihood of beating earnings estimates for 2Q22. TotalEnergies has beaten earnings estimates in nine of the past 10 quarters and doing so again could send shares higher.

Russia invaded Ukraine at the end of February 2022, and since March 2022, the price of Brent crude oil has consistently closed above \$100. Should oil prices persist at their current elevated levels, TotalEnergies profits and share price could continue to soar.

Dividends and Share Repurchases Could Provide 7.1% Yield

TotalEnergies has paid a dividend in every year since 2012. Since 2017, TotalEnergies has paid \$29.1 billion (21% of current market cap) in cumulative dividends. The company's current dividend, when annualized, provides a 5.2% yield.

TotalEnergies also returns capital to shareholders through share repurchases. From 2017 to 2021, the company repurchased \$9.6 billion (7% of current market cap) of stock. TotalEnergies has repurchased \$2.8 billion over the TTM. If the company continues to repurchase shares at the same rate, the buybacks will provide an annual yield of 1.9% at its current market cap.

Executives' and Shareholders' Interests Are Aligned

No matter the macro environment, investors should look for companies with executive compensation plans that directly align executives' interests with shareholders' interests. Quality corporate governance holds executives accountable to shareholders by incentivizing them to allocate capital prudently.

Part of the company's variable compensation in 2021 was based on a return on average capital employed (ROACE) target, which is a positive for investors. The company <u>calculates</u> capital employed as "the net adjusted operating income divided by the average of the capital employed (at replacement costs, net of deferred income tax and con-current liabilities)".

Tying executive compensation to ROIC, or something similar like ROACE, ensures that executives' interests are actually aligned with shareholders' interests as there is a <u>strong correlation between improving ROIC and increasing shareholder value</u>.

TotalEnergies' focus on creating shareholder value has helped it grow <u>economic earnings</u> from \$1.1 billion in 2017 to \$14.8 billion over the TTM.

Insider Trading and Short Interest Trends

There is no data available related to insider transactions.

There are currently 4.9 million shares sold short, which equates to <1% of shares outstanding and under one day to cover. Short interest is up 24% from the prior month. The lack of short interest reveals not many are willing to take a stake against this free cash flow generator.

Critical Details Found in Financial Filings by Our Robo-Analyst Technology

Fact: we provide <u>more reliable fundamental data</u> and earnings models – unrivaled in the world. Proof: <u>Core Earnings: New Data & Evidence</u>, forthcoming in The Journal of Financial Economics.



Below are specifics on the adjustments we make based on Robo-Analyst findings in TotalEnergies' 20-F and 6-Ks:

Income Statement: we made \$9.3 billion of adjustments, with a net effect of removing \$4.2 billion in non-operating expenses (2% of revenue). Clients can see all adjustments made to TotalEnergies' income statement on the GAAP Reconciliation tab on the Ratings page on our website.

Balance Sheet: we made \$97.0 billion of adjustments to calculate invested capital with a net increase of \$22.2 billion. One of the largest adjustments was \$30.3 billion in <u>asset write-downs</u>. This adjustment represented 15% of reported net assets. Clients can see all adjustments made to TotalEnergies' balance sheet on the GAAP Reconciliation tab on the Ratings page on our website.

Valuation: we made \$111.4 billion of adjustments to shareholder value for a net effect of decreasing shareholder value by \$49.5 billion. Apart from total debt, one of the most notable adjustments to shareholder value was \$30.1 billion in excess cash. This adjustment represents 21% of Total's market cap. Clients can see all adjustments to TotalEnergies' valuation on the GAAP Reconciliation tab on the Ratings page on our website.

Attractive Funds That Hold TTE

The following funds receive our Attractive rating and allocate significantly to TTE:

- 1. Prudential Investment Portfolios (JDEZX) 3.0% allocation
- 2. Sound Equity Income ETF (SDEI) 2.8% allocation

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Disclosure: David Trainer, Kyle Guske II, and Matt Shuler receive no compensation to write about any specific stock, style, or theme.

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It's Official: We Offer the Best Fundamental Data in the World

Many firms claim their research is superior, but none of them can prove it with independent studies from highly-respected institutions as we can. Three different papers from both the public and private sectors show:

- 1. Legacy fundamental datasets suffer from significant inaccuracies, omissions and biases.
- 2. Only our "novel database" enables investors to overcome these flaws and apply <u>reliable</u> fundamental data in their research.
- 3. Our proprietary measures of <u>Core Earnings</u> and <u>Earnings Distortion</u> materially improve stock picking and forecasting of profits.

Best Fundamental Data in the World

Forthcoming in <u>The Journal of Financial Economics</u>, a top peer-reviewed journal, <u>Core Earnings: New Data & Evidence</u> proves our Robo-Analyst technology overcomes material shortcomings in legacy firms' data collection processes to provide superior <u>fundamental data</u>, <u>earnings</u> models, and <u>research</u>. More <u>details</u>.

Key quotes from the paper:

- "[New Constructs'] *Total Adjustments* differs significantly from the items identified and excluded from Compustat's adjusted earnings measures. For example... 50% to 70% of the variation in *Total Adjustments* is not explained by *S&P Global's (SPGI) Adjustments* individually." pp. 14, 1st para.
- "A final source of differences [between New Constructs' and S&P Global's data] is due to data collection oversights...we identified cases where Compustat did not collect information relating to firms' income that is useful in assessing core earnings." pp. 16, 2nd para.

Superior Models

A top accounting firm features the superiority of our ROIC, NOPAT and Invested Capital research to Capital IQ & Bloomberg's in <u>Getting ROIC Right</u>. See the <u>Appendix</u> for direct comparison details.

Key quotes from the paper:

- "...an accurate calculation of ROIC requires more diligence than often occurs in some of the common, off-the-shelf ROIC calculations. Only by scouring the footnotes and the MD&A [as New Constructs does] can investors get an accurate calculation of ROIC." pp. 8, 5th para.
- "The majority of the difference...comes from New Constructs' machine learning approach, which leverages technology to calculate ROIC by applying accounting adjustments that may be buried deeply in the footnotes across thousands of companies." pp. 4, 2nd para.

Superior Stock Ratings

Robo-Analysts' stock ratings outperform those from human analysts as shown in this <u>paper</u> from Indiana's Kelley School of Business. Bloomberg features the paper <u>here</u>.

Key quotes from the paper:

- "the portfolios formed following the buy recommendations of Robo-Analysts earn abnormal returns that are statistically and economically significant." pp. 6, 3rd para.
- "Our results ultimately suggest that Robo-Analysts are a valuable, alternative information intermediary to traditional sell-side analysts." pp. 20, 3rd para.

Our mission is to provide the best fundamental analysis of public and private businesses in the world and make it affordable for all investors, not just Wall Street insiders.

We believe every investor deserves to know the whole truth about the profitability and valuation of any company they consider for investment. More details on our cutting-edge technology and how we use it are here.



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