

The Impact of Digital Transformation and ESG Disclosure on Finance

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ABSTRACT

This study aims to analyze the influence of digital transformation and Environmental, Social, and Governance (ESG) disclosure on the financial performance of energy companies in Indonesia. The background of this research stems from the inconsistency of previous studies and the increasing demand for digitalization and sustainability in the energy sector during the energy transition. This study uses secondary data obtained from the annual reports and sustainability reports of energy companies listed on the Indonesia Stock Exchange (IDX) for the 2021–2024 period, with a total of 157 observations. Digital transformation is measured using the Digital Transformation Index (DTI), ESG disclosure is measured using the GRI Standards 2021, and financial performance is proxied by Price to Book Value (PVB). Data analysis uses panel data regression with a Fixed Effect Model (FEM) approach based on the results of the Chow and Hausman test. The results show that digital transformation has a significant but negative effect on company financial performance, while ESG disclosure has a positive and significant effect. Simultaneously, both variables have a significant influence with an R-squared value of 0.850, indicating that the model is able to explain variations in financial performance strongly. These findings underscore the importance of synergy between digital investment and sustainability practices as a strategy to strengthen the value of energy companies in Indonesia.

Keywords: *Digital Transformation; ESG Disclosure; Financial Performance; Energy Companies*

INTRODUCTION

The energy sector plays a strategic role in supporting national economic growth and supporting the achievement of the Sustainable Development Goals (SDGs), particularly SDG 7 (Affordable and Clean Energy), SDG 9 (Innovation and Infrastructure), and SDG 13 (Addressing Climate Change). However, in recent years, the financial performance of energy companies in Indonesia has shown a fluctuating trend due to production cost pressures, commodity price volatility, and the demands of the transition to green energy. (Zhan, 2024) Financial performance itself reflects a company's ability to generate profits and increase shareholder value, which can be measured through indicators such as Return on Assets (ROA). (Shalhoob, 2025).

Current trends indicate that the declining performance of most energy companies is related to suboptimal operational efficiency. PT Pertamina (Persero) recorded a 29% decline in net profit in 2023 due to rising refinery costs and the suboptimal digitalization of its production process. (CNBC, 2025) PT Adaro Energy Tbk experienced a similar situation, experiencing a 21% decline in profits due to high operational costs and delays in digital integration. (Thohir, 2024) This situation indicates that digital transformation and the implementation of sustainability principles (ESG) have the potential to play a significant role in strengthening the efficiency and performance of energy companies.

Based on the Resource-Based View (RBV) put forward by (Barney, 1991) Companies can gain sustainable competitive advantage by leveraging valuable, rare, difficult-to-imitate, and non-substitutable resources. Digital transformation falls into this category of strategic resources because it can increase efficiency, reduce operational errors, accelerate decision-making, and strengthen financial reporting. With digitalization, companies can reduce production costs, improve productivity, and increase market value. (Zhou et al., 2023) However, the results of previous studies still show inconsistencies. (Liu, 2024) as well as (Valaskova et al., 2025) found that digitalization has a positive effect on financial performance and cost efficiency, while (Han, 2024) reported that the effects of digitalization were not significant due to the large initial investment costs.

In addition to internal capabilities, Environmental, Social, and Governance (ESG) disclosure is also a crucial external factor that can impact a company's financial performance. Based on Stakeholder Theory (Freeman, 1984) Corporate sustainability depends not only on internal efficiency but also on social legitimacy and stakeholder trust. ESG disclosure reflects a company's responsibility towards the environment, social welfare, and transparent governance. Good ESG disclosure can attract sustainability-minded investors, strengthen a company's reputation, and reduce reputational risk, which indirectly improves market value. (Li et al., 2025).

However, the results of previous research are still varied. (Chen, 2025) shows that ESG disclosure improves financial performance due to high investor confidence, whereas (Shalhoob, 2025) found that ESG disclosure has not had a significant impact because it remains a formality in developing countries. This situation indicates a research gap, particularly in the context of Indonesian energy companies adapting to global pressures of decarbonization and digitalization.

The implementation of digitalization and ESG is in line with national policies towards the Sustainable Energy Transition and Indonesia's commitment to the SDGs. (Kwilinski, 2023) Therefore, this research has scientific urgency to empirically examine how digital transformation and ESG disclosure impact the financial performance of energy companies in Indonesia, both in terms of internal efficiency and external legitimacy. This approach is expected to provide academic and policy contributions in strengthening the sustainability strategy of the national energy sector.

Hypothesis

The Impact of Digitalization on Financial Performance

Based on the Resource-Based View, digital capabilities are strategic resources. Research results (Valaskova et al., 2025) and (Liu, 2024) shows that digitalization improves efficiency and financial performance. Although the initial investment is high, (Han, 2024), digital transformation is generally believed to have a positive impact on the profitability of energy companies.

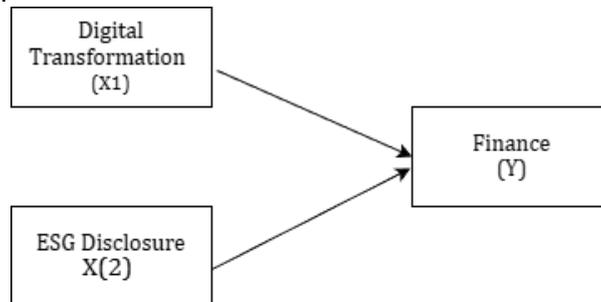
H1: Digital Transformation Has a Positive Impact on Financial Performance

The Impact of ESG on Financial Performance

According to Stakeholder Theory, ESG disclosure builds legitimacy and trust. (Chen, 2025) and (Li et al., 2025) ESG reporting has been shown to increase investor interest and company value. In developing countries, reporting can be symbolic. (Shalhoob, 2025), good ESG practices are expected to boost the financial performance of energy companies.

H2: ESG Disclosure Has a Positive Impact on Financial Performance

This research framework describes the causal relationship between two independent variables and the dependent variable. Digital transformation (X1) and ESG disclosure (X2) are estimated to strengthen financial performance (Y).



RESEARCH METHOD

To test the previously formulated hypotheses, this study uses a quantitative approach with the aim of empirically analyzing the influence of digital transformation (X1) and ESG disclosure (X2) on the financial performance (Y) of energy companies listed on the Indonesia Stock Exchange (IDX) during the 2021–2024 period. The quantitative approach was chosen because it is able to measure the relationship between variables objectively and measurably based on numerical data. The data used are secondary data, obtained from annual reports, sustainability reports, and official publications of the Indonesia Stock Exchange (IDX). (www.idx.co.id) and each company. The analysis was conducted using the FEM approach. Based on the criteria, there were 157 research samples. The data obtained are as follows:

Table 1 Sample Determination

Criteria	2021	2022	2023	2024
Publishing Annual Financial Report	74	74	74	74
Incomplete Data On Sustainability Report, and Digital Transformation	56	40	29	14
Samples That Meet the Criteria	18	34	45	60
Amount of Sample Data Used	157			

Digital transformation variables are measured using the Digital Transformation Index (DTI), which is based on seven key indicators: ERP/SAP system implementation, AI- or IoT-based technology, digital reporting, digital transformation strategy, digitalization unit formation, cybersecurity policies, and corporate digital innovation. Each indicator is scored 1 if implemented and 0 if not, and is calculated using the following formula:

$$DTI = \text{Number of indicators fulfilled} / 7 \times 100\%$$

ESG disclosure variables are measured using a disclosure index based on the Global Reporting Initiative (GRI) standards, which encompass three main dimensions: environmental (E), social (S), and governance (G). Each disclosure element is scored 1 if disclosed and 0 if not disclosed, and then calculated as a percentage of total disclosure.

Meanwhile, the financial performance variable (Y) is measured using Book Value per Price (BVP). BVP represents a company's book value relative to its stock market price, thus indicating the extent to which the stock price reflects the company's fundamental value. The calculation formula for these three indicators is as follows:

$$PVB = \text{Share Price} / \text{Book Value per Share}$$

The data analysis method used in this study is panel data regression analysis processed using EViews 13 software. Before conducting the regression test, classical assumption tests were first conducted, including a normality test to ensure a normal residual distribution, a multicollinearity test to test the correlation between independent variables, a heteroscedasticity test to check the uniformity of residual variance, and an autocorrelation test to test the existence of residual correlation between periods. The regression model used in this study is formulated as follows:

$$FP_{it} = \beta_0 + \beta_1 DTI_{it} + \beta_2 ESG_{it} + \epsilon_{it}$$

Information :

- FP :Financial Performance (BVP)
- DTI :Digital Transformation Index
- ESG :ESG Disclosure Score
- β_0 :Constant
- β_1, β_2 :Regression coefficient
- e :Error term

Significance testing was conducted through a t-test to determine the partial effect of each independent variable on the dependent variable, an F-test to test the simultaneous effect between independent variables on the dependent variable, and a coefficient of determination (R^2) to see how much variation in financial performance can be explained by digital transformation and ESG disclosure.

The interpretation of the research results is based on RBV and Stakeholder Theory. Based on RBV theory, the implementation of digital transformation can be considered a strategic asset for a company that can improve operational efficiency and competitive advantage, thus positively impacting financial performance.(Mailani et al., 2024)Meanwhile, according to Stakeholder Theory, ESG disclosure is a manifestation of corporate social responsibility and a form of communication to stakeholders, which ultimately can strengthen the legitimacy, reputation, and value of the company in a sustainable manner.(Wang, 2024).

Table 2 Operational Definition of Variables

Variables	Measurement	Source
Digital Transformation (X ₁)	DTI Index based on 7 indicators (ERP, AI/IoT, digital reports, digitalization units, cybersecurity, innovation)	Valaskova et al. (2025)
ESG Disclosure (X ₂)	The ESG index based on GRI Standards (2021) includes 60 items	GRI (2021)
Financial Performance (Y)	PVB	Annual report

RESULTS AND DISCUSSION

1. Descriptive Statistics

Table 3 Descriptive Statistics and Classical Assumption Tests

Variable	MIN	MAX	MEAN	Standard Deviation	Kolmogorov-Smirnov	Toll	VIF	Par	Durbin
s								k	Watson
								test	n
DTI	0.0	1.00	0.55	0.25	015	0.99	1,01	0.19	1,958
ESG	0	100	45.0	12.00	0.22	0.99	1,01	0.43	
Y	100,000	5,000,000	155,580	1432945	0.20	0	1		

The data results above indicate that all variables in the study meet the statistical requirements for panel regression. The significance value of the normality test (Sig > 0.05) indicates that the residuals are normally distributed, while the VIF value < 10 indicates the absence of multicollinearity among the independent variables. The heteroscedasticity test also shows Sig > 0.05, indicating that the residual variance is homogeneous. Furthermore, the Durbin-Watson value of 1.958 indicates no autocorrelation. With all assumptions met, the panel regression model is considered valid for further analysis.

2. Model Selection and Assumption Testing

Before conducting the regression, a model selection test was conducted. The Chow and Hausman tests were both significant, so the best model used was the Fixed Effect Model (FEM). The selection of FEM indicates that differences in the characteristics of each energy company—such as asset size, cost structure, or digital maturity level—have an influence that must be accounted for in the model. The classical assumption test showed that the model was free from multicollinearity (VIF < 10), the data was normally distributed (Sig > 0.05), there was no heteroscedasticity (Sig > 0.05), and there were no signs of autocorrelation (DW = 1.958). Thus, the panel regression model can be interpreted accurately.

Table 4 T-TEST

Variable	Coefficient	Std. Error	t-Statistic	Prob.
Y	885203.1	354081.2	2,500,000	0.0125
X1	-1080822.	360274.0	-3,000,000	0.0035
X2	5.557909	1.389477	4,000,000	0.0001

The data above shows that digital transformation (X1) has a negative and significant effect on financial performance (t = -3.000; Sig = 0.0035). A coefficient of -1,080.822 indicates that increasing digitalization in the short term can reduce company value. This can be explained by the high initial investment in digitalization in the capital-intensive energy sector, such as ERP implementation, IoT, and cybersecurity. This cost burden suppresses short-term profitability, thereby lowering investor perception. These results are consistent with the RBV theory, which states that digital capabilities are a strategic resource, but their benefits are more felt in the long term. Conversely, ESG disclosure (X2) has a positive and significant effect on financial performance (t = 4.000; Sig = 0.0001). The coefficient of 5.557 indicates that each increase in ESG disclosure increases company value. This finding suggests that

investors respond positively to corporate transparency in environmental, social, and governance areas. These results support Stakeholder Theory, which asserts that corporate legitimacy and reputation are enhanced through good sustainability reporting.

Table 5 Model Summary

R-squared	Adjusted R-squared	F-statistic	Prob(F-statistic)	Durbin-Watson stat
0.850000	0.845000	100,0000	0.000001	1,958

The analysis results above show a significant F-statistic (Sig = 0.000001), indicating that digital transformation and ESG jointly impact financial performance. The R-squared value of 0.850 indicates that 85% of the variation in PVB can be explained by these two variables. This figure indicates that digitalization and sustainability are two very powerful strategic factors influencing the market valuation of energy companies.

DISCUSSION

The Impact of Digital Transformation on Financial Performance (PVB)

The results of the study indicate that digital transformation (X1) has a significant effect on financial performance with a coefficient of -1,080.822 and a significance value of 0.0035. Although the direction of the relationship is negative, this result still indicates that changes in the level of digitalization have a significant impact on the company's market value. The negative direction may reflect the condition that the digitalization process in the energy sector is still in the development stage, thus requiring high initial investment costs, both for the implementation of ERP systems, IoT integration, strengthening cybersecurity, and the development of digitalization units.

These high costs can reduce book value or increase market volatility in the short term, negatively impacting PVB. However, with a significance value of <0.05, these results demonstrate that digitalization remains a key factor influencing investor valuation.

This finding is in line with the Resource-Based View theory.(Barney, 1991), where digitalization is a valuable and difficult-to-imitate strategic resource. These results are also consistent with research(Han, 2024)which explains that the initial investment burden of digitalization can impact company value, particularly in capital-intensive sectors like energy. Thus, digitalization has been shown to be a factor influencing financial performance, although the direction of this influence still depends on the company's readiness to manage the costs of transformation.

The Impact of ESG Disclosure on Financial Performance (PVB)

The regression results show that the ESG disclosure variable (X2) has a positive and significant influence on PVB with a coefficient of 5.557909, a t-statistic of 4.000000, and a significance value of 0.0001. These results prove that the better a company's ESG disclosure, the higher the company's market value compared to its book value.

This demonstrates that investors respond positively to energy companies that demonstrate high levels of transparency and accountability regarding environmental, social, and governance issues. ESG disclosure signals reputation and sustainability commitment, bolstering investor confidence, particularly amid the global push toward a green energy transition.

This finding supports Stakeholder Theory(Freeman, 1984), which states that corporate legitimacy increases when the company is able to meet stakeholder expectations regarding social and environmental responsibility. The results of this study are also consistent with other studies.(Chen, 2025)And(Li et al., 2025)which found that ESG can strengthen a company's market value by enhancing its reputation, investor confidence, and mitigating long-term risks. Thus, ESG is no longer just a compliance practice but has become a factor with a real economic impact on Indonesian energy companies. In the context of Indonesian regulations, policies such as POJK 51/2017, SEOJK 16/2021, and the development of the IDX ESG Leaders index have strengthened the role of ESG as an indicator for assessing corporate risk and performance.

The F-test results showed a significance value of 0.000001, indicating that digital transformation and ESG simultaneously significantly influence financial performance. This means that the combination of these two variables together makes a significant contribution to changes in the market value of energy companies. The R-squared value of 0.850 indicates that 85% of the variation in PVB can be explained by the model, indicating very high predictive ability. This indicates that digitalization and sustainability practices are two strategic factors that together can substantially influence investor perceptions and market valuations. The Durbin-Watson value of 1.958 confirms that the model is free from autocorrelation, thus the model structure is considered stable and reliable.

CONCLUSION

This study concludes that digital transformation and ESG disclosure significantly influence the financial performance of energy companies in Indonesia. Panel data regression results show that digital transformation has a significant negative effect, indicating that investments in digital technologies such as ERP, IoT, and cybersecurity systems still incur significant costs, thus reducing a company's market value in the short term. Conversely, ESG disclosure has a positive and significant effect on Price to Book Value (PVB), reflecting that transparent sustainability practices can increase investor confidence and strengthen a company's legitimacy. Simultaneously, both variables explain 85% of the variation in financial performance, indicating that the combination of digitalization and ESG is a strategic component in shaping the value of energy companies in the energy transition era. These findings contribute to strengthening the Resource-Based View and Stakeholder Theory, by confirming that digital capabilities and sustainability practices are strategic resources that influence company value. This study is limited by the use of a four-year data period and does not include control variables such as company size or profitability. Therefore, future research is recommended to expand the observation period, add moderating or mediating variables, and adopt a multi-sector approach to make the results more comprehensive and generalizable.

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APPENDIX

Sheet1

	A	B	C	D	E
1	CODE	YEAR	X1	X2	Y
2	AADI	2021	0.73	0.91951	0.9995791
3	AADI	2022	0.64	0.925242	0.08524
4	AADI	2023	0.73	0.329202	0.249039
5	AADI	2024	0.75	0.748001	0.173207
6	ABMM	2021	0.72	0.344751	0.7557359
7	ABMM	2022	0.73	0.293146	0.13628768
8	ABMM	2023	0.82	0.989155	0.1041449
9	ABMM	2024	0.83	0.681891	0.2149999
10	AJNR	2021	0.55	0.405264	0.589799
11	AJNR	2022	0.45	0.336794	0.584079
12	AJNR	2023	0.46	0.542431	0.939008
13	AJNR	2024	0.73	0.889354	0.590379
14	AJRO	2021	0.64	0.577433	0.40705195
15	AJRO	2022	0.73	0.857461	0.212107
16	AJRO	2023	0.9	0.968527	0.116428
17	AJRO	2024	0.91	0.874832	0.459434
18	AMIS	2022	0.64	0.521172	0.2998005
19	AMIS	2023	0.82	0.575817	0.9995791
20	AMIS	2024	0.7	0.861001	0.420294
21	AMIS	2025	0.73	0.913034	0.528859
22	AKQA	2021	0.82	0.499531	0.4899531
23	AKQA	2022	0.82	0.35821	0.6481494
24	AKQA	2023	0.82	0.501186	0.52586155
25	AKQA	2024	0.64	0.839044	0.189993
26	ALI	2021	0.64	0.055481	0.3320189
27	ALI	2022	0.73	0.480506	0.50005
28	ALI	2023	0.82	0.889241	0.4460173
29	ALI	2024	0.73	0.169056	0.655497
30	APEX	2021	0.64	0.562954	0.27861856
31	APEX	2022	0.64	0.830207	0.611257
32	APEX	2023	0.73	0.211897	0.176023
33	APEX	2024	0.64	0.732966	0.346261
34	ARI	2021	0.64	0	0.18072743
35	ARI	2022	0.64	0.382586	0.460173
36	ARI	2023	0.73	0.636575	0.0274049
37	ARI	2024	0.64	0.829569	0.211913
38	ATLA	2021	0.64	0.025336	0.763872
39	ATLA	2022	0.55	0.382457	0.01561
40	ATLA	2023	0.64	0.488214	0.984181
41	ATLA	2024	0.91	0.569094	0.167243
42	BBRM	2021	0.64	0.019176	0.6591943
43	BBRM	2022	0.64	0.609039	0.129565
44	BBRM	2023	0.64	0.103412	0.37651
45	BBRM	2024	0.82	0.087663	0.017638
46	BESS	2021	0.64	0.7274716	0.1
47	BESS	2022	0.73	0.119982	0.039982
48	BESS	2023	0.73	0.160286	0.45301
49	BESS	2024	0.64	0.454547	0.728353
50	BPI	2021	0.45	0.401052	0.26810622
51	BPI	2022	0.73	0.166468	0.172325
52	BPI	2023	0.55	0.594676	0.79611
53	BPI	2024	0.45	0.857283	0.651088
54	BOAT	2021	0.64	0.466496	0.427977
55	BOAT	2022	0.64	0.417473	0.4460173
56	BOAT	2023	0.73	0.398481	0.156176
57	BOAT	2024	0.91	0.689377	0.421296
58	BSAL	2021	0.64	0.019176	0.6591943
59	BSAL	2022	0.64	0.019176	0.6591943
60	BSAL	2023	0.73	0.451364	0.313755
61	BSAL	2024	0.82	0.419531	0.52586155
62	BSSR	2021	0.45	0.329503	0.70416748
63	BSSR	2022	0.73	0.196089	0.483925
64	BSSR	2023	0.82	0.217472	0.811112
65	BSSR	2024	0.91	0.939277	0.532523
66	BULL	2021	0.73	0.5050505	0.5050505
67	BULL	2022	0.73	0.358404	0.099988
68	BULL	2023	0.91	0.505051	0.210152
69	BULL	2024	0.1	0.665569	0.694686
70	BLM	2021	0.82	0	0.403486
71	BLM	2022	0.64	0	0.85674
72	BLM	2023	0.91	0.840023	0.98143785
73	BLM	2024	0.73	0.326325	0.382223
74	BYAN	2022	0.64	0.338586	0.9171954
75	BYAN	2023	0.73	0.658559	0.11173
76	BYAN	2024	0.82	0.739865	0.685654
77	CGAS	2021	0.64	0.338586	0.9171954
78	CGAS	2022	0.55	0.621977	0.348824
79	CGAS	2023	0.73	0.561534	0.145553
80	CGAS	2024	0.82	0.63184	0.311198
81	CLAN	2021	0.55	0.2193937	0.1
82	CLAN	2022	0.91	0.085277	0.30387
83	CLAN	2023	0.82	0.095981	0.198354
84	CLAN	2024	0.91	0.024025	0.439404
85	DEWA	2021	0.64	0.127401	0.849571598
86	DEWA	2022	0.64	0.392832	0.9923725
87	DEWA	2023	0.82	0.05407	0.4183335
88	DEWA	2024	0.73	0.47867	0.428919
89	DOID	2021	0.45	0.993351	0.4435093
90	DOID	2022	0.64	0.117769	0.1818262
91	DOID	2023	0.73	0.992428	0.2187573
92	DOID	2024	1	0.293992	0.980727
93	DOSA	2021	0.64	0.029774	0.95244677
94	DOSA	2022	0.64	0.601684	0.8223262
95	DOSA	2023	0.64	0.47996	0.0689409
96	DOSA	2024	0.55	0.252236	0.8994
97	DMG	2022	0.64	0.597539	0.681095
98	DMG	2023	0.7	0.828976	0.878041
99	DMG	2024	0.73	0.927061	0.876207
100	DMG	2025	0.75	0.119953	0.310625
101	ELSA	2021	0.64	0.875439	0.65446
102	ELSA	2022	0.64	0.480926	0.19599
103	ELSA	2023	0.55	0.891935	0.64404
104	ELSA	2024	0.64	0.37951	0.785254
105	ENRG	2022	0.82	0.737231	0.162133
106	ENRG	2023	0.73	0.980555	0.620284
107	ENRG	2024	0.73	0.911495	0.24321
108	ENRG	2025	0.74	0.565004	0.379135
109	FIRE	2022	0.82	0.152151	0.945459
110	FIRE	2023	0.91	0.527671	0.004132
111	FIRE	2024	0.73	0.655025	0.134044
112	FIRE	2025	0.45	0.957647	0.163791
113	GEMS	2022	0.45	0.957647	0.163791
114	GEMS	2023	0.73	0.288073	0.132769
115	GEMS	2024	0.91	0.094509	0.693198
116	GEMS	2025	0.45	0.589397	0
117	GTBO	2022	0.64	0.388015	0.137795
118	GTBO	2023	0.82	0.515676	0.29736
119	GTBO	2024	0.73	0.014543	0.195839
120	GTBO	2025	0.73	0.337178	0.659506
121	HLL	2022	0.82	0.137842	0.98847
122	HLL	2023	0.73	0.337178	0.659506
123	HLL	2024	0.64	0.561302	0.250162
124	HLL	2025	0.91	0.201821	0.21892
125	HITS	2022	0.82	0.323302	0.113058
126	HITS	2023	0.91	0.503594	0.100997
127	HITS	2024	0.64	0.561302	0.250162
128	HITS	2025	0.91	0.201821	0.21892
129	HRLM	2022	0.45	0	0.140315
130	HRLM	2023	0.55	0	0.20704
131	HRLM	2024	0.64	0.554494	0.202402
132	HRLM	2025	0.73	0.059609	0.311119
133	HRLM	2026	0.55	0.481275	0.058483
134	HRLM	2027	0.82	0.395026	0.905708
135	HRLM	2028	0.82	0.395026	0.905708
136	INDY	2021	0.82	0.356726	0.274583
137	INDY	2022	0.64	0.93524	0.23607334
138	INDY	2023	0.45	0.097991	0.23693408
139	INDY	2024	0.64	0.148845	0.013234
140	INDY	2025	0.35	0.501945	0.220313
141	INPS	2022	0.91	0.7835	0.823505
142	INPS	2023	0.91	0.871852	0.660798
143	INPS	2024	0.64	0.327802	0.130764
144	INPS	2025	0.45	0	0.15453475
145	ITMA	2022	0.64	0	0.033634
146	ITMA	2023	0.73	0.131936	0.289592
147	ITMA	2024	0.64	0.398129	0.933215
148	ITMA	2025	0.64	0.956552	0.1489925
149	ITMA	2026	0.73	0.57471	0.25066042
150	ITMA	2027	0.73	0.274301	0.469531
151	ITMA	2028	0.64	0.924615	0.9146469
152	ITMA	2029	0.64	0.080811	0.9457649
153	ITMA	2030	0.64	0.040834	0.147666
154	ITMA	2031	0.64	0.040834	0.147666
155	ITMA	2032	0.73	0.22021	0.130764
156	ITMA	2033	0.64	0.398129	0.933215
157	ITMA	2034	0.64	0.398129	0.933215
158	KOPI	2021	0.82	0.405684	0.51886
159	KOPI	2022	0.64	0.427937	0.054674
160	KOPI	2023	0.73	0.78139	0.420698
161	KOPI	2024	0.64	0.029187	0.02938
162	LEAD	2021	0.64	0.701538	0.132678
163	LEAD	2022	0.64	0.355173	0.583442
164	LEAD	2023	0.64	0.355173	0.583442
165	LEAD	2024	0.64	0.396051	0.375992
166	MAHA	2021	0.64	0.6409567	0.1
167	MAHA	2022	0.91	0.859943	0.568435
168	MAHA	2023	0.64	0.587542	0.127334
169	MAHA	2024	0.73	0.831903	0.63926
170	MBAP	2022	0.73	0.466151	0.472768
171	MBAP	2023	0.55	0.642226	0.48826
172	MBAP	2024	0.82	0.507622	0.954495
173	MBAP	2025	0.64	0.730774	0.614886
174	MBAP	2026	0.91	0.285076	0.311989
175	MBAP	2027	0.91	0.911228	0.433151
176	MBAP	2028	0.73	0.534104	0.228808
177	MBAP	2029	0.64	0.053314	0.188911
178	MEDL	2022	0.64	0.0924	0.075067
179	MEDL	2023	0.82	0.032732	0.20270081
180	MEDL	2024	0.64	0.324555	0.230257
181	MEDL	2025	0.64	0.019798	0.132678
182	MEDL	2026	0.55	0.769765	0.369
183	MEDL	2027	0.64	0.453586	0.200547
184	MEDL	2028	0.36	0.875429	0.966287
185	MEDL	2029	0.73	0.696361	0.693001
186	MKAP	2022	0.64	0.655995	0.678706
187	MKAP	2023	0.64	0.398854	0.905677
188	MKAP	2024	0.73	0.346129	0.956316
189	MKAP	2025	0.64	0.595599	0.263926
190	MVGH	2021	0.64	0.427618	0.110968
191	MVGH	2022	0.64	0.204672	0.129526
192	MVGH	2023	0.64	0.952557	0.194891
193	MVGH	2024	0.45	0.564393	0.250316
194	PGAS	2022	0.64		