

Stock price reactions to ESG news: the role of ESG ratings and disagreement

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Research Question

- Whether ESG ratings predict future ESG news and the associated market reactions.

Why interesting and important?

- A newer set of performance evaluations: ESG ratings
 - sourced by investment manager, with trillions of dollars in assets under management
 - influencing portfolio construction and trading
- rating multidimensionality—>rating disagreement
 - difficult to observing the outcomes associated with ESG performance
 - less clear how one can or should judge their quality
- ratings' usefulness?

Contributions

- Literature on examines the properties of ESG ratings
 - Prior: greater ESG disclosure exacerbates disagreement across ESG ratings(Christensen et al.,2022)
 - This study: ESG ratings can be useful in predicting future news.
- Literature on market reactions to ESG event, news, or ratings disagreement
 - Prior: negative market reaction to ESG news(Krueger, 2015)
 - This study: how ESG ratings create investor expectations about future news
- Literature on why investors react to ESG news
 - Prior: nonpecuniary reasons (Jones et al. 2000)
 - This study: financial rather than a nonpecuniary motive.

Hypotheses

- There is a positive relationship between ESG ratings and more positive future ESG news.
 - ESG ratings appropriately reflect a management's efforts.
- More positive ESG news will be associated with more positive stock price reactions to the news.
 - better ESG performance translates into value because of operating efficiencies

Data

- ESG news(TruValue Labs Pulse data)
 - above 50 indicate positive sentiment
 - below 50 reflect negative sentiment.
- ESG Rating
 - MSCI ESG Ratings,
 - ustainalytics
 - Thomson Reuters Asset 4.

H1: whether ESG ratings predict future ESG news

- predictive ability of ESG rating diminishes only for firms with large disagreements.

$$ESG\ News_{i,t} = \beta_0 + \beta_1 Normalized\ Average\ ESG\ Rating_{i,t-1} + Control\ Variables + Date\ FE + Industry\ FE + \varepsilon_{i,t} \quad (1a)$$

Table 3 Prediction of news based on the most recent ESG rating

	ESG News			
	(1)	(2)	(3)	(4)
	All News		Material News	
Normalized Average ESG Rating _{t-1}	2.9083*** [7.445]	3.2671*** [8.138]	2.4549*** [5.186]	3.0089*** [6.026]
High Disagreement		0.0955 [0.186]		0.7318 [0.987]
Normalized Average ESG Rating _{t-1} *High Disagreement		-0.8338** [-2.005]		-1.1574** [-2.237]
Controls	Yes			
F.E	Industry & Date			
N	31,854	31,854	10,806	10,806
R-squared	0.316	0.317	0.453	0.455

H2: Market reaction to ESG news

- positive (negative) ESG news is associated with positive (negative) stock price reaction.
- stock price reaction to positive ESG news is more positive than the reaction to negative news

Table 5 Market reaction to ESG news conditional on the average ESG rating

Panel A. Univariate Analysis – All News

	High Average ESG Rating		Low Average ESG Rating	
	<i>N</i>	<i>Industry Adj Return -1, +1</i>	<i>N</i>	<i>Industry Adj Return -1, +1</i>
Positive News	4,006	0.0738%	2,365	0.4159%
Negative News	2,379	-0.1890%	3,991	-0.2184%

Panel B. Univariate Analysis – Material News

	High Average ESG Rating		Low Average ESG Rating	
	<i>N</i>	<i>Industry Adj Return -1, +1</i>	<i>N</i>	<i>Industry Adj Return -1, +1</i>
Positive News	1,340	0.0371%	821	1.0580%
Negative News	798	-0.3430%	1,363	-0.4588%

Predicting futures stock returns

- generate significant excess returns
- market has not fully reflected the information contained in the ESG rating disagreements.

$$R_{i,t} = \alpha + \beta_{MKT}MKT_{i,t} + \beta_{SMB}SMB_{i,t} + \beta_{HML}HML_{i,t} + \beta_{RMW}RMW_{i,t} + \beta_{CMA}CMA_{i,t} + \varepsilon_{i,t} \quad (4)$$

Panel C. Predicting Future Stock Returns Using Disagreements in ESG Ratings

Parameter	Equal-Weighted			Value-Weighted		
	(1)			(2)		
	Long/Short			Long/Short		
	Estimate		t	Estimate		t
Intercept	0.0035		2.46	0.0033		2.35
Market	-0.1334		-3.13	-0.1319		-3.10
SMB	0.0807		1.03	0.0833		1.09
HML	-0.0942		-1.10	-0.0963		-1.15

Conclusion and Question

- Positive market reaction to positive ESG news and a negative market reaction to negative news
- ESG news reflects sentiment, but may not provide accurate corporate ESG information.
- The issue is not how ESG news responds to ESG, but rather the media's misvaluation of ESG news.