



### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

E-ISNN: 2621-4210 P-ISNN · 1979- 746X

### **Understanding 'The Four Phase' of Coal Industries and its Economic Policy Implication in Indonesia: A Systematic** Literature Review (SLR) Approach

### Natasha Natasha<sup>1</sup>, Jahen F. Rezki<sup>2</sup>

<sup>1</sup> Master of Economic Planning and Development Policy, Faculty of Business and Economics, University of Indonesia, Indonesia

<sup>2</sup> Institute for Economic and Social Research, Faculty of Business and Economics, University of Indonesia, Indonesia

> <sup>1</sup>natasha01@ui.ac.id <sup>2</sup>jahen.fr@ui.ac.id

#### Info Artikel

Accepted July, 2023 Revised August 25, 2023 Published September 22, 2023

#### Kata Kunci:

political economy, coal phase, systematic literature review, policy analysis, economic policy

#### **Abstract**

This study seeks to provide a thorough examination of the four stages of coal mining and production. As we will see, there are four major phases in the coal industry across the world: phase-in, phase-out, exporter, and established user. This entanglement is critical for Indonesia's coal phase-out. In this regard, Indonesia, as the primary provider, should grasp the dynamics of coal industries in order to correctly leave coal. We employ a Systematic Literature Review (SLR) to examine the possibilities of nations forming coalitions in the coal industry. The probe is critical because coal companies are associated with highpower politics that necessitate long-term contracts. We discovered that the majority of coal-using countries have a sophisticated yet tough policy. The desire to quit coal in the near future appears to be an impediment. It resonates with classical political economy studies that to exit coal needs a common consensus between each countries.

### INTRODUCTION

Data from Indonesian elections provide empirical evidence (Rezki, 2018, 2022), shows that political competition reduces the incentive to engage in rent-seeking



# JURNAL EKBIS (SÍNE)



### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

E-ISNN: 2621-4210 P-ISNN: 1979-746X

behavior by making it easier for voters to punish incumbents who fail to improve certain policies. When voters have several options in an election, politicians must enact propeople policies. This finding is consistent with research from Blane D. Lewis and Adrianus Hendrawan (Lewis & Hendrawan, 2019), which emphasizes the importance of political accountability to government performance. This notion is important remembering that accountability is major stake while evaluating politicial integrity.

This research is significant for several reasons: 1) Indonesia's goal of generating clean energy, and 2) evidence-based analysis of policy formulation and implementation in the national and local coal sectors. According to our view, the coal sector is one of the major contributors to economic growth.

### Literature Review/Analytical Framework

It is understandable that Indonesia has long been one of the world's top coal exporters (Steckel & Jakob, 2021). Today's coal mining sector has grown far too large. In 2016, at least 120 enterprises were legally registered with the Ministry of Natural Resources, not counting the unregistered ones that proliferate uncontrollably<sup>1</sup>. According to the Central Bureau of Statistics, West Kalimantan alone would produce 294.252.801 tons of coal in 2021<sup>2</sup>. Despite its unstoppable expansion, the coal sector accounts for 4% of Indonesia's GDP (Greenpeace Indonesia, 2014). Lignite and coal GDP growth of 6.6 percent is predicted in 2021, totaling to IDR 261,71 trillion<sup>3</sup>.

Coal has become one of the country's assets for attaining FDI-based and GDPbased economic growth due to its ease of processing. There is also a strong incentive to maintain coal mining as a key economic activity since associated royalties contribute considerably to local and national government budgets (Ordonez et al., 2021). However, when a country's economic expansion begins, there is always an environmental consequence that every country must deal with. In the case of coal mining, governments must strike an agreement for one country to phase out or at least minimize its use of coal.

The coal mining industry is massive. It is widely interconnected across nations. Coal mining industries, as they are popularly called, are divided into four stages. The

<sup>&</sup>lt;sup>1</sup> The list of registered coal mining company can be seen here: https://eiti.esdm.go.id/v2/wpcontent/uploads/2016/12/Lampiran-Daftar-Perusahaan-Mineral-dan-Batubara-Laporan-EITI-2014.pdf. Up to this day, local security authorities were in hunt to tackle the illegal miners: https://regional.kompas.com/read/2022/09/06/175937078/tambang-batu-bara-ilegalditemukan-di-samboja-pemodal-dan-operator-jadi.

<sup>&</sup>lt;sup>2</sup> The statistics can be found here: https://kaltim.bps.go.id/indicator/10/361/1/produksi-

<sup>&</sup>lt;sup>3</sup> Along with these price changes, Indonesia's coal export volume increased slightly by 1.14 percent to 345.45 million tons in 2021. Meanwhile, its value increased by 82.59 percent to US\$26.53 billion from US\$14.53 billion the previous year:

https://databoks.katadata.co.id/datapublish/2022/04/04/pertambangan-batu-bara-danlignit-tumbuh-66-pada-2021.





### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

E-ISNN: 2621-4210 P-ISNN: 1979-746X

first phase, known as the phase-out, classified nations that no longer rely on coal energy for their daily energy demands. Chile, the United States, the United Kingdom, Germany, and Bulgaria are the countries involved (Jakob & Steckel, 2022).

These are quickly developing imperialist countries with previously developed economies and financial stability. These nations have reduced or eliminated their dependency on coal, or they have embraced a new energy source. As a result, they had no trouble phasing out coal energy since they could afford it.

#### RESEARCH METHODS

The systematic literature review is used to aid our benchmark analysis (Mengist et al., 2020). We next use the framework and our identified keywords to narrow down the relevant findings owing to the coalition and coal.

Table 1. Framework on Benchmark Comparison using Systematic Literature Review

No.	Code	Description
1.	Background	The article's general explanation of the issues raised.
2.	RQ/Problematics	Scientific formulation (with concepts/theories) of where or what the problem points in the article will be researched.  Can take the form of a question.
3.	Aims/Objectives	What will be done or discussed in order to answer and solve difficulties.
4.	Urgency / Novelty	The "why and so what" of an article; the significance and promise of fresh contributions from the topic debate, which the article will do.
5.	Theoretical/Conceptual Framework	A brief overview of the article's analytical framework: what theory/concept it is, who it quotes, what its assertions are, and how it is applied.
6.	Method	A description of the procedures employed, how they were utilized, and the data that was utilised.
7.	Main argument	The article's major argument assertions, analysis support, and data are all described.
8.	Supporting argument	The assertion of the supporting argument/derivative, as well as the analysis support and data utilized in the article, are described.





E-ISNN: 2621-4210

P-ISNN: 1979-746X

### ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

9.	Quotes	Important quotes that are directly relevant to the article's points.
10.	Commentary	The subjective comments/notes of the reviewers will be subject to one or two of the above-mentioned aspects of the review (problematization, analytical framework/methods, interpretation, data validity, etc.).
11.	User's Relevance	Relevance points that explain why and how this article was valuable for study.

Based on framework above, we searched relevant journals that concerning our priority countries:

Table 2. The Criteria Used for the Extraction of Information from the Selected Articles

Phase(s)	Concept	Countries	Journal Portal	Criteria	Keywords
Phase-Out	Countries that no longer adopt coal usage	Chile, Germany	Quarterly Journal of Economics, Electoral Studies,	Year of publication under the past five years	Coal, coalition, Chile, Germany
Phase-In	Countries that are still on a verge in coal adoption	Philippines, Vietnam	Global Environmental Change, Energy Strategy Review	Year of publication under the past five years	Coal, coalition, Philippines, Vietnam
Established User	Countries that broadly declare the coal usage	China, India	World Bank Economic Reviews, Frontiers of Business Research in China	Year of publication under the past five years	Coal, coalition, China, India
Exporter	Countries that become the main supplier	Indonesia, Australia	Energy Research and Social Sciences	Year of publication under the past five years	Coal, coalition, Indonesia, Australia



# JURNAL EKBIS PRINTER



### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

E-ISNN: 2621-4210 P-ISNN: 1979-746X

### RESULTS AND DISCUSSION

To understand the developments in the coal sectors, we undertake comparative benchmark analysis. In this position, we intend to investigate if Indonesia followed a similar path to other nations in terms of coalition building and coal. First, we look at the pattern of phase-out nations Chile and Germany.

Table 3. Benchmark Analysis in Phase-Out Countries: Chile and Germany

Indicator/	Phase-Out		
Countries	Chile	Germany	
	Chile's clean energy consumption	In Germany, the main concern is to	
	objective is to improve local clean	ensure climate protection targets and	
	energy initiatives (Fuentes González et	general political and economic	
Motivation	al., 2020).	condition. The government create a	
		law schedule on coal phase-out by	
		2038 at the latest (Brauers et al., 2020;	
		Markard et al., 2021).	
	Chile has agreed to a multi-party	Germany has been forced to adopt a	
	system (Alemán et al., 2021; Gainza et	multi-party system. It used the	
Danter Creations	al., 2021).	concept of 'color coding' to reflect	
Party System		each party's position on various	
		subjects (Brauers et al., 2020; Markard	
		et al., 2021).	
Ideologies	Democratic, which Chile very recently	Republic of the Democratic and	





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

	embraced (Gainza et al., 2021).	Federal Parliamentary Parties (Adena
		et al., 2015; Brauers et al., 2020;
		Markard et al., 2021).
Market	Open Market Mechanism (Alemán et	Social Market Economy (Brauers et
Economy	al., 2021; Fuentes González et al., 2020;	al., 2020; Markard et al., 2021).
Leonomy	Gainza et al., 2021).	
	Binomial electoral rules (Alemán et al.,	Germany agreed to a grand coalition
Coalition	2021; Gainza et al., 2021).	based on the ideological closeness of
Formation		the parties (Brauers et al., 2020;
		Markard et al., 2021).
	Chile's fledgling democracy	Germany's two ideologies result in a
	frequently backfires due to incentives	lack of authority in its demand-
Conflicts	and party prejudice issues (Gainza et	supply relationships, codependence,
Commets	al., 2021).	and broad European interference
		(Adena et al., 2015; Brauers et al.,
		2020; Markard et al., 2021).
	The issue that leads to policy hurdles	The problem that drives Germany's
	is partisanship and a lack of common	policy barrier is market problems;
Policy	ground (Gainza et al., 2021).	aside from hurdles connected with
Barriers		EU legislation and regulation, there
		are minimal legal impediments to US
		trade or investment (Markard et al.,





### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

E-ISNN: 2621-4210 P-ISNN: 1979-746X

		2021).
	Yes, as Chile reshapes its ideas toward	Yes, primarily to aid in the shift from
Transaction	democracy, power struggle has	energy to economic performance
Cost	democracy, power struggte has	chergy to economic performance
Economics	increased significantly (Alemán et al.,	(Brauers et al., 2020; Markard et al.,
Economics	2021; Gainza et al., 2021).	2021).
	Chile was previously conceived by	The first coal was mined in Germany
	military dictatorships that controlled	some 900 years ago, but it wasn't until
	the interchange of power in decision-	the nineteenth century that coal
Historical	making processes. (Alemán et al.,	mining came of age, when
Background	2021; Gainza et al., 2021).	industrialization transformed the
Dackground		mining areas of the Ruhr Valley and
		the Saarland into Germany's
		industrial heartland (Brauers et al.,
		2020; Markard et al., 2021).

In Germany and Chile, the coalition structure will become more open to market distribution. This situation promotes exchange and assists in coal leaving. However, it is also critical to note that its policy challenges are greatly influenced by partisanship, making its policy susceptible. While considering a coal departure, Indonesia's potential for self-sufficiency in energy generation should be considered. Furthermore, developing a law-schedule has become critical for improving policy implementation.



# JURNAL EKBIS PRINTER



### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

E-ISNN: 2621-4210 P-ISNN: 1979-746X

China, India, and Turkey are the established users of coal energy in the second phase (Jakob & Steckel, 2022). These are developing market economies. They have a long history of using coal. They will continue to rely on coal energy to drive economic growth by expanding output and consumption.

Table 4. Benchmark Analysis in Established Coal Users: China and India

Indicator/	Established User	
Countries	China	India
	Climate change was seen as a	The Ministry of Environment and
	scientific foreign-policy issue until	Forestry oversaw climate change
	1998, when it was transferred from	(MOEF). In 2007, Prime Minister
	the purview of China's	Singh established the Prime
	meteorological service to the	Minister's Climate Change Council,
	powerful national development and	which includes representatives from
Motivation	reform commission (NDRC), which	several ministries, the media,
Motivation	also oversees energy programs	business, and non-governmental
	(Aamodt & Stensdal, 2017; J. Chen &	groups (NGOs) (Aamodt & Stensdal,
	Xie, 2019; K. Chen et al., 1992;	2017; Besley et al., 2012; Jakob et al.,
	Garnaut & Song, 2012; Liang et al.,	2020; Montrone et al., 2021; Shukla &
	2021; Lin & Bega, 2021; Sovacool &	Swarnakar, 2022).
	Martiskainen, 2020; Springer, 2022;	
	Tan et al., 2021; Wang et al., 2022).	





### ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac

omi.unisla.ac.id	ALISIS, I REDIKSI, D		E-ISNN : 2621- 4210 P-ISNN : 1979- 746X
	Chinese communist party (Aamodt &	A Westminster-style legislature with	
	Stensdal, 2017; J. Chen & Xie, 2019; K.	a clientelist political settlement	
	Chen et al., 1992; Garnaut & Song,	(Aamodt & Stensdal, 2017; Besley et	
Party System	2012; Liang et al., 2021; Lin & Bega,	al., 2012; Jakob et al., 2020; Montrone	
	2021; Sovacool & Martiskainen, 2020;	et al., 2021; Shukla & Swarnakar,	
	Springer, 2022; Tan et al., 2021; Wang	2022).	
	et al., 2022).		
	The ideology of China is that of an	Federal democracy is Indian	
	authoritarian unitary state. (Aamodt	philosophy (Aamodt & Stensdal,	
	& Stensdal, 2017; J. Chen & Xie, 2019;	2017; Besley et al., 2012; Jakob et al.,	
Ideologies	K. Chen et al., 1992; Garnaut & Song,	2020; Montrone et al., 2021; Shukla &	
ideologies	2012; Liang et al., 2021; Lin & Bega,	Swarnakar, 2022).	
	2021; Sovacool & Martiskainen, 2020;		
	Springer, 2022; Tan et al., 2021; Wang		
	et al., 2022)		
	Transitioning from a regulated to an	Since 1991, India's economy has been	
	open market economy (Aamodt &	more open, although the energy	
Madat	Stensdal, 2017; Besley et al., 2012;	sector is still dominated by state-	
Market	Jakob et al., 2020; Montrone et al.,	owned firms (Aamodt & Stensdal,	
Economy	2021; Shukla & Swarnakar, 2022).	2017; Besley et al., 2012; Jakob et al.,	
		2020; Montrone et al., 2021; Shukla &	
		Swarnakar, 2022).	





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

	The Chinese Communist Party is the	Alliances headed by the Indian
	sole ruler (Aamodt & Stensdal, 2017;	National Congress (INC) and the
Coalition	J. Chen & Xie, 2019; K. Chen et al.,	Bhartiya Janata Party (Indian People's
Formation	1992; Garnaut & Song, 2012; Liang et	Party, BJP) (Aamodt & Stensdal, 2017;
	al., 2021; Lin & Bega, 2021; Sovacool	Besley et al., 2012; Jakob et al., 2020;
	& Martiskainen, 2020; Springer, 2022;	Montrone et al., 2021; Shukla &
	Tan et al., 2021; Wang et al., 2022).	Swarnakar, 2022).
	State-owned enterprises (SOEs)	Many major private firms have close
	dominate the energy industry, with	relations to the government; the Tata
	many of the top energy-consuming	Group and the Confederation of
	companies being SOEs. Companies	Indian Industries have been involved
	seldom express their unhappiness	in India's involvement at COPs since
	with government policies in public;	the outset, and they are also
Conflicts	instead, they prefer to communicate	represented on the Prime Minister's
	through informal channels (Aamodt	Council on Climate Change (Aamodt
	& Stensdal, 2017; J. Chen & Xie, 2019;	& Stensdal, 2017; Besley et al., 2012;
	K. Chen et al., 1992; Garnaut & Song,	Jakob et al., 2020; Montrone et al.,
	2012; Liang et al., 2021; Lin & Bega,	2021; Shukla & Swarnakar, 2022).
	2021; Sovacool & Martiskainen, 2020;	
	Springer, 2022; Tan et al., 2021; Wang	
	et al., 2022).	



## JURNAL EKBIS CISINTAL



E-ISNN: 2621-4210

### **ANALISIS, PREDIKSI, DAN INFORMASI**

Several SOEs are ranked at the vice-

ministerial level in the government's

hierarchy, rendering lower-ranking

them.(Aamodt & Stensdal, 2017; J.

Garnaut & Song, 2012; Liang et al.,

2021; Lin & Bega, 2021; Sovacool &

Martiskainen, 2020; Springer, 2022;

Tan et al., 2021; Wang et al., 2022).

Yes, mostly to maintain donations

and interaction with government

SOEs (Aamodt & Stensdal, 2017; J.

Garnaut & Song, 2012; Liang et al.,

Chen & Xie, 2019; K. Chen et al., 1992;

Chen & Xie, 2019; K. Chen et al., 1992;

officials unable to direct

https://jurnalekonomi.unisla.ac.id

**Policy** 

**Barriers** 

Transaction

Cost

**Economics** 

P-ISNN: 1979-746X Because it has a parliamentary majority, the government typically gets desired legislation passed, and MPs who vote against party decisions may be removed. The political settlement is also fractured, with environmental issues coming under the Concurrent List, where the border between federal and state authority is unclear. The independence of the judiciary and the appointment of public officers to permanent contracts in the Indian Administrative Service are both sources of stability (Aamodt & Stensdal, 2017; Besley et al., 2012; Jakob et al., 2020; Montrone et al., 2021; Shukla & Swarnakar, 2022). Yes, mostly to sustain contributions and engagement with government SOEs (Aamodt & Stensdal, 2017;

Besley et al., 2012; Jakob et al., 2020;

Montrone et al., 2021; Shukla &

Volume 2	23 No.	20	2023





E-ISNN: 2621-4210

P-ISNN: 1979-746X

### **ANALISIS, PREDIKSI, DAN INFORMASI**

2021; Lin & Bega, 2021; Sovacool &

Martiskainen, 2020; Springer, 2022;

Tan et al., 2021; Wang et al., 2022).

Prior to the arrival of civilisation in

China 5,000 years ago, the region's

for around 1,000 years. China

dominated coal use in the pre-

coal helped it to develop into a

civilization (Aamodt & Stensdal,

et al., 2021; Lin & Bega, 2021;

Sovacool & Martiskainen, 2020;

et al., 2022).

Springer, 2022; Tan et al., 2021; Wang

sophisticated economy and

https://jurnalekonomi.unisla.ac.id

Swarnakar, 2022). Commercial coal mining in India dates back over 220 years, beginning ancient people had been utilizing coal in 1774 with M/s Sumner and Heatly of the East India Company at the Raniganj Coalfield on the Damodar modern world, carving coal into ear River's western bank. India has ornaments and building the world's mined coal since 1774, and it is the first coal mine. Ancient China's use of world's second largest producer and consumer of coal after China (Aamodt & Stensdal, 2017; Besley et al., 2012; Jakob et al., 2020; Montrone 2017; J. Chen & Xie, 2019; K. Chen et et al., 2021; Shukla & Swarnakar, al., 1992; Garnaut & Song, 2012; Liang 2022).

We can observe that the exporting countries have challenges in meeting the nation's energy supply (China and India). As a result, the country was striving to keep its own

Historical

**Background** 



# JURNAL EKBIS CIÊNTA



### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

P-ISNN: 1979-746X

E-ISNN: 2621-4210

resources. This situation subsequently proved to be a barrier to the development of a more liberalized market. China and India have a specific policy to maintain their coal supplies, which included exporting from outside. In this respect, Indonesia has become a China export referral point (Wang et al., 2022).

The phase-in nations are those that begin to use coal on a big scale in the third phase. They were debating whether to employ new coal capacity to enhance production. Kenya, the Philippines, and Vietnam are among them (Jakob & Steckel, 2022). Coal is used in the phase-in nations to boost product output and the economy.

Table 5. Benchmark Analysis in Phase-In Countries: Philippines and Vietnam

Indicator/	Phase-In	
Countries	Philippines	Vietnam
	Coal-fired electricity supplies most	Because coal development is
	the Philippines' energy demands.	primarily motivated by political
	The Philippine government strongly	concerns, energy businesses are
	encouraged the growth of the coal	crucial to the communist party's
Motivation	sector until the 2020 ban on the	legitimacy strategy (Breul & Nguyen,
	establishment of new coal-fired	2021; Dorband et al., 2020; Fforde,
	power plants, classifying coal	2016; Jakob et al., 2020; Zimmer et al.,
	projects as nationally significant	2015).
	(Camba, 2021; Delina, 2021, 2022;	





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

iloitii.utiisia.ac.iu		
	Marquardt, 2015).	
Party System	A multi-party system (Camba, 2021; Delina, 2021, 2022; Marquardt, 2015).	Communist party (Breul & Nguyen, 2021; Dorband et al., 2020; Fforde, 2016; Jakob et al., 2020; Zimmer et al., 2015).
Ideologies	Democracy, led by a president who serves as both head of state and head of government (Camba, 2021; Delina, 2021, 2022; Marquardt, 2015).	Communism (Breul & Nguyen, 2021;  Dorband et al., 2020; Fforde, 2016;  Jakob et al., 2020; Zimmer et al., 2015).
Market Economy	A mixed economic system  characterized by a mix of private  liberty with centralized economic  planning and government regulation  (Camba, 2021; Delina, 2021, 2022;  Marquardt, 2015).	Doi Moi open market mechanism (Breul & Nguyen, 2021; Dorband et al., 2020; Fforde, 2016; Jakob et al., 2020; Zimmer et al., 2015).
Coalition Formation	Kilusang Pagbabago, which refer to coalition for change (Camba, 2021; Delina, 2021, 2022; Marquardt, 2015).	The independence coalition is known as Viet Minh. As a result, there is just one party in the Vietnamese legislative structure (Breul & Nguyen, 2021; Dorband et al., 2020; Fforde,





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

Omi.umsia.ac.iu		
		2016; Jakob et al., 2020; Zimmer et al.,
		2015).
	The Philippines has become one of	The Vietnamese Planning and Finance
	the largest importers of coal from	Ministries are unable to drive
	Indonesia and Australia, and the	significant reform in the energy
	current administration has built a	sector, which can only be initiated by
	new coal-fired power plant on a	the CPV. Thus, institutional, and
	regular basis (Camba, 2021; Delina,	human incentives to maintain the
Conflicts	2021, 2022; Marquardt, 2015).	status quo not only contradict the
Commets		fundamental goals of delivering stable
		and cost-effective energy supply, but
		also actively encourage fossil, mostly
		coal-based, generating expansions
		(Breul & Nguyen, 2021; Dorband et
		al., 2020; Fforde, 2016; Jakob et al.,
		2020; Zimmer et al., 2015).
	Legislation obstacles in the	In Vietnam, emission reduction
Pol: av	Philippines coal and coalition include	targets for coal usage are unclear,
Policy Barriers	ongoing conversations with the	inconsistent, and poorly
Dairiers	business sector over the introduction	implemented, and the approval
	of Renewable Portfolio Standards	process is lengthy (Breul & Nguyen,
	I	<u> </u>





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

nomi.umsia.ac.iu		
	(RPS), a market-based policy that	2021; Dorband et al., 2020; Fforde,
	requires providers to obtain or	2016; Jakob et al., 2020; Zimmer et al.,
	deliver a part of their electricity from	2015).
	certified RE projects (Camba, 2021;	
	Delina, 2021, 2022; Marquardt, 2015).	
	Yes, mostly to entice private sector	Yes, there is mutual interest among
Transaction	participation (Camba, 2021; Delina,	foreign contributors (Breul & Nguyen,
Cost	2021, 2022; Marquardt, 2015).	2021; Dorband et al., 2020; Fforde,
Economics		2016; Jakob et al., 2020; Zimmer et al.,
		2015).
	The first coal was discovered in the	The Ke Bao coal mine (Van Yen
	Philippines under Spanish	commune, Van Don district) was
	colonization in 1800 and was used as	Vietnam's first coal mine, according to
	the country's principal source of	historical documents. Around 1840,
	electricity. In 1827, it was discovered	Vietnamese people began mining coal
Historical	in the Philippine Islands (Delina,	in Dong Trieu. In 1888, the French
Background	2021, 2022; Marquardt, 2015).	established a coal mine, and on
		September 1, 1988, S.F.C.T (Bac Ky
		Coal Company) established the first
		coal mine, Ke Bao (Breul & Nguyen,
		2021; Dorband et al., 2020; Zimmer et
		al., 2015).



# JURNAL EKBIS CINTAL SINTER SIN



**ANALISIS, PREDIKSI, DAN INFORMASI** 

https://jurnalekonomi.unisla.ac.id

-ISNN: 2621-4210 P-ISNN : 1979- 746X

Vietnam and the Philippines are on the point of deciding whether to keep using coal or export additional coal. Vietnam has become China's primary source of labor supply, with most of the product usage manufactured in Vietnam (Fforde, 2016). As a result of this firm agreement, it has become more difficult for Vietnam to quit coal. Furthermore, when discussing coal utilization in the Philippines, it firmly emphasized its capacity to participate in increased production. As a result, its policy was largely focused on facilitating diverse commercial prospects (Delina, 2021).

The exporter, which is the country that produces coal and delivers it to other countries, is the most significant user. Australia, Colombia, South Africa, and Indonesia are among them (Jakob & Steckel, 2022). In this situation, Indonesia is the next coal exporter, propelled by a vested interest on the side of its political party and politically well-connected coal mine owners (Ordonez et al., 2021).

In this situation, Indonesia is driven by a vested interest by its political party and politically well-connected coal mine owners (Edenhofer et al., 2018; Jakob et al., 2020; Jakob & Steckel, 2022; Ordonez et al., 2021; Steckel & Jakob, 2021).

Table 6. Benchmark Analysis in Coal Exporter Countries: Australia and Indonesia

Indicator/	Exporter				
Countries	Australia	Indonesia			
Motivation	Not in a position to phase out	Indonesia's energy goal is to reduce the			





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

	coal, as Australian government	use of coal-fired electricity by 2030
	refuses to join 40 nations phasing	(Ordonez et al., 2021).
	out coal (Curran, 2021).	
	Two-party system (Curran, 2021).	A multi-party system that allows several
Douber Court one		political parties to participate in
Party System		government and legislatures (Fossati et
		al., 2020).
Ideologies	Liberal democratic political	Democracy (Fossati et al., 2020).
lueologies	system (Curran, 2021).	
Market	Mixed-market economic system	Close market economy system (Sarwedi,
Economy	(Curran, 2021).	2010).
	Conservatism backed Australia's	Coalitions in Indonesia are organized
	coalition government (Curran,	into two primary groups: the Onward
Coalition	2021).	Indonesia Coalition and the United
		Indonesia Coalition. Following the
Formation		election of the president, most of the
		parties' alliances shifted (Ordonez et al.,
		2021; Sanjaya, 2016).
	Conflict over codependence with	Conflict in coalition formation over land
Conflicts	the corporate sector in coalition	use, pro-business policies, and a lack of
	building around coal, which the	public participation as a watchdog
	Morrison administration	(Mietzner, 2016; Ordonez et al., 2021).





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

E-ISNN: 2621-4210 P-ISNN: 1979-746X

	supported and encouraged, was	
	highly denounced in Australia	
	(Curran, 2021).	
	Obstacles in the market, a lack of	Most policies are mainly concerned with
D 11	government action on	contractual/technical frameworks, rather
Policy Barriers	transitioning to sustainable	than the environmental impact of coal
barriers	energy, and a shortage of human	mining (Ordonez et al., 2021).
	resources (Curran, 2021).	
Transaction	Yes, the coal in Australia were	Yes, most coal industries were run by
Cost	mostly government-driven	members of parliament or people with
Economics	agenda (Curran, 2021).	close political links (Ordonez et al., 2021).
	The earliest mention of coal was	Indonesia has a long history of
	made in 1797 by survivors of a	commercial coal production that extends
	shipwreck who walked up the	back more than 160 years. However, with
	coast from southern Australia to	the implementation of two new
Historical	Sydney (Curran, 2021).	investment and mining legislation in
Background		1967, which provided a framework for
		experienced multinational mining
		organizations to engage, the modern coal
		sector began in the 1980s (Friederich &
		van Leeuwen, 2017).

The coalition formed in Indonesia is mostly connected to the dispersion of participants





### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

ISNN: 2621-4210 P-ISNN: 1979-746X

across many industries. Furthermore, Indonesia is regarded as one of the countries with a strong political economy and a well-organized coalition building process. Long before the election, almost every business, from media to mining to food and beverage, was represented in each alliance (Lewis & Hendrawan, 2019).

This powerful political culture may become the major distinction between Indonesia and the other nations, expressing the oligarchic network of Indonesia across numerous platforms. It was significantly tied to businesses who had a strong-willed relationship inside the parliament and the coal mining industry itself (Febriani et al., 2021).

In Indonesia, there are various policies in place to increase the use of coal, including Presidential Regulation No. 22/2017, RPJMN 2015-2019, and many others. It allows them to influence the debate toward business-oriented policies, even to higher authority, all of which is generated in the body of law. Each policy is described in detail below.

#### Policy Framework on Coal Production in Indonesia

The policy framework below is summarized based on AOC (Actor, Objective, Context) Framework by Michael Jakob, Christian Flachsland, Christoph Steckel, and Jan Urpelainen (Edenhofer et al., 2018; Jakob et al., 2020; Jakob & Steckel, 2022; Ordonez et al., 2021; Steckel & Jakob, 2021) with several elaborations and add-ins. In summary, the framework explains how actors are connected and how they relate to societal and political discourses on coal mining issues.





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

Table 7. Notable Policy Framework of Coal Production in Indonesia

No.	Policies/Objectives	Level	Stakeholders	Summary
1.	Technical	Local	Local	The article goes on the technical
	Regulation on		government,	compatibility of coal processing and
	Permission in Coal		local	byproducts. It assures the efficiency
	Exploration and		stakeholders,	with which local mining businesses
	Processing in Local		Ministry of	are implemented and controlled. In
	Area (Local		Energy and	this situation, the local authority
	Regulation of		Natural	restricts coal processing and
	Tanjung Jabung		Resources, and	purification to its minimal
	Timur, West		other SOEs	concentration.
	Kalimantan, and			
	Island of Bangka			
	Belitung, Special			
	Region of			
	Yogyakarta No.			
	1/2019, No. 9/2012,			
	No. 9/2019, No.			
	31/2015)			
2.	Technical	Local	Local	The local government aimed to
	Regulation on		government,	build a mechanism wholly focused





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

	Procedures in		local	on the working mechanism in coal
	Scope of Work,		stakeholders,	mining, requiring its scope of work,
	Delegating		local miner,	incentives-disincentives scheme, as
	Mechanism,		Ministry of	well as the scope of work and
	Incentives and		Energy and	policies of each mining industry
	Disincentives in		Natural	sector. The goal of this document is
	Environmental,		Resources, and	to guarantee that certain policies are
	and Working		other SOEs	built into the local topology and
	Contracts (Local			nature of the job.
	Regulation in			
	Central			
	Kalimantan, West			
	Kalimantan, North			
	Kalimantan, West			
	Nusa Tenggara,			
	Aceh, No. 128/2016,			
	No. 25/2015, No.			
	51/2015, No.			
	35/2017, No.			
	63/2006)			
3.	National Energy	National	President of	By 2025, coal is predicted to
	Strategy 'KEN' and		Indonesia,	contribute for less than 30% of total
L	I	1		



# JURNAL EKBIS PRINTER



## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

	NI-CI F		Ministra	(DF) :- T-(-1
	National Energy		Ministry of State-	renewable energy (RE) in Total
	Plan 'RUEN'		Owned	Projected Energy Use (TPES), and
	(Presidential		Enterprises,	less than 25% by 2050. According to
	Regulation No.		Ministry of	the national energy policy, it will
	22/2017 on the		Energy and	account for 23% of RE in TPES by
	General Plan on		Natural	2025 and 31% by 2030.
	National Energy		Resources, PLN,	
	and Governmental		and other SOEs	
	Regulation No.			
	79/2014)			
4.	GW fast-track	National	President of	The goal of the fast-track effort is to
	program		Indonesia,	provide 35 GW of extra capacity to
	(Stipulated in Mid-		Ministry of State-	the power industry immediately, 20
	term National		Owned	GW of which must be coal-based. It
	Development Plan		Enterprises,	is being used by PLN to construct its
	– RPJMN 2015-		Ministry of	ten-year business strategy for
	2019)		Energy and	electricity delivery (RUPTL). RUPTL
			Natural	thinks that mine-mouth coal power
			Resources, PLN,	stations should be prioritized
			and other SOEs	wherever there are adequate energy
				supplies.
5.	Rural electrification	National	Local	The primary goal of PLN's rural



# JURNAL EKBIS PRINTER



## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

		<u> </u>	T	
	program		government,	electrification project is to achieve
	(Stipulated in Mid-		local	total electrification by 2024. This is
	term National		stakeholders,	since Indonesia's average national
	Development Plan		Ministry of	electrification rate in 2017 was 93
	– RPJMN 2015-		Energy and	percent, implying that around 20
	2019, RUKN 2018-		Natural	million people remained without
	2015, MEMR		Resources, and	access to power. With over 20
	Regulation No.		PLN	million people still without access to
	38/2016)			electricity, the government has
				planned 97.35 percent electrification
				by 2019 and 100 percent
				electrification by 2024, up from 93
				percent in 2019. Prior to 2013, all
				power in Indonesia was subsidized,
				using a 37-tiered pricing plan.
6.	Electricity and	National	President,	Since 2013, power subsidies have
	fossil fuel subsidy		population,	been gradually phased off, affecting
	reform (Ministerial		Ministry of	16 percent of non-subsidized sales in
	Regulation No.		Finance	2013 and 78 percent in 2017. RON
	30/2012 and			88-gasoline, diesel, kerosene, and
	Ministerial			LPG subsidies have also been
	Regulation No.			reformed.





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

	uriisia.ac.iu		<u> </u>	
	38/2016 among			
	many others)			
7.	Domestic Market	National	Coal mining	The Domestic Market Obligation
	Obligation – IUP		industry, IPPs,	(DMO), enacted in 2018, requires all
	Scheme		national	coal producers to set aside one-
	(Ministerial		government,	quarter of their yearly output for
	Regulation No.		sub-national	domestic use. The price of coal sold
	23/2018, updated to		governments,	for power production in the United
	No. 1924/K30/2018,		key functionaries	States is restricted at USD 70 per ton
	with basis on		with vested	(reference quality 6322 kcal/kg).
	Mining Law No.		interest in coal	
	4/2009)			
8.	Feed-in tariffs	National	President,	Renewable energy feed-in tariffs
	abolishment to area		population,	were phased down in 2017 and
	based (BPP)		Ministry of	replaced by an "area-based strategy"
	scheme (MEMR		Finance	("BPP-scheme"). The maximum for
	regulation No.			IPPs delivering RE electricity to PLN
	12/2017, 50/2017			is set at 85 percent of the average
	and Resolution No.			PLN production cost in the relevant
	1404			region for solar photovoltaics, wind,
	K/20/MEM/2017)			biomass, and biogas, and 100
				percent for geothermal, hydro, and
	•	•		i.





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

				waste-to-energy. This is especially
				true in locations where the PLN's
				production costs exceed the national
				average.
9.	National	National	Ministry of	Under normal circumstances, the
	Determined		Forestry and	Indonesian government will
	Contribution		Environment,	unconditionally decrease its GHG
	(NDC) (Regulation		sub-national	emissions by 29% by 2030. Energy
	No. 16/2017)		governments,	sector emissions are expected to rise
			NGOs,	from 453 million tons CO2eq in 2010
			international	to 1,355 million tons CO2eq in 2030.
			development aid	This reflects the objective of the
			agencies,	National Energy Strategy of
			population in	expanding coal usage to satisfy
			coal mining sites	rising electricity demand. By 2030,
				NDC plans to cut greenhouse gas
				emissions in the energy sector by
				19% compared to business as usual
				in the power sector by installing 7.4
				GW of RE and using "clean coal"
				technologies.
10.	Export-Import	National	Ministry of	The purpose of this policy paper is
	l	l	<u> </u>	



# JURNAL EKBIS PRINTER



## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

	TA7 1:		T 1	1 66 11 6.3
	Working		Energy and	to offer an outline of the
	Regulation and		Natural	technological idea of the coal mining
	Working		Resources,	operating mechanism. It is made up
	Competencies by		Government of	of the process and the stakeholders
	Ministry of Energy		Indonesia, Local	who will be encountered. This
	and Natural		Government,	policy's purpose is to create a due
	Resources and		Coal mining	diligence matrix for coal miners
	President of		industries,	looking for work in the mining
	Republic of		Ministry of	business.
	Indonesia		Employment	
	(Ministerial			
	Regulation No.			
	43/2016 and			
	Government			
	Regulation No.			
	96/2021)			
11.	Coal Contract of	National	Coal mining	The CCOW and COW agreements
	Work, Contract of		industry, IPPs,	were authorized by the Government
	Work, Mining		national	of Indonesia following consultation
	Business Licenses		government,	with the House of Representatives,
	(Mining Law No.		sub-national	according to Article 10(3) of Law
	4/2009 with		governments,	No. 11/1967. The technique is





### ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

E-ISNN: 2621-4210 P-ISNN: 1979-746X

	reference to Mining	key functionaries	consistent with the legislative
	Law No. 11/1967.	with vested	process. This legislation is governed
	The regulation also	interest in coal	by the provision on contracts in
	become the		Indonesian Civil Code Book 3,
	baseline point for		which states that contract parties are
	Mining Law No.		equal and that an agreement cannot
	3/2020 and		be altered unless all parties agree.
	Omnibus Law No.		The authority to export in
	11/2020)		CCOW/COW is governed by
			Indonesian national policy, and it
			has no bearing on the contractor's
			obligations under applicable coal
			supply agreements with third
			parties. Furthermore, under the
			CCOW, the government may choose
			a contractor to operate as its selling
			agent under commercial agreements
			acceptable to all parties. In this
			sense, ownership is passed to the
			contractor at the time of delivery.
Notes	This information roas obtained f	rom mann convec of	f regulation in Indonesia, ranging from

Notes: This information was obtained from many sources of regulation in Indonesia, ranging from national to local. Several regional restrictions were eliminated in this case due to their comparable substance, which centered on functioning mechanisms. We only evaluate initiatives that have contrasting





E-ISNN: 2621-4210

P-ISNN: 1979-746X

### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

viewpoints on coal and coalition in Indonesia.

In short, the policies in Indonesia are always beneficial to coal miners. Although the measures listed above appear to be anti-coal, many support it. In Indonesia, there is no legitimate ecology to allow coal mining to end. To leave coal, for example, it is encouraged to have alternate power to improve renewable energy. Renewable energy must continue to be fueled by coal. As a result, it is rare to have completely 'clean' energy that does not include the usage of filthy energy as its major supplier/driver.

#### Going Deep Dive: Impact of Coal Production to Society

In summary, the coin has two sides: the government (through rules) and society (in the form of activism to protest mining at the regional level). This is done to show an unfair policy tendency that is harmful to society. In this example, regulations essentially silenced society, and the local government appeared to have abdicated its responsibilities to prioritize community interests. This problem is compounded by the prevalence of long-term contracts that do not reflect society concerns or engage with them. The mapping of impacted communities from desk research is presented below4. This mapping also highlights the significance of non-

<sup>&</sup>lt;sup>4</sup> We conduct the desk study from the perspectives of the victim, drawing on resources from local community media outlets, such as kaltim.tribunnews.com, eksposkaltim.com, and pedomanbengkulu.com, (https://www.kaltimprov.go.id/berita/pertambangan-batu-bara-banyak-merusaklingkunganl, https://kaltim.tribunnews.com/2017/05/23/tindak-lanjuti-keluhan-pencemaran-akibattambang-legislator-kutim-temui-warga-desa-sempayau, https://www.eksposkaltim.com/berita-4820-10jam-tutup-hauling-pt-gam-kades-sempayau-dipolisikan.html, https://www.pedomanbengkulu.com/search/label/tambang%20batu%20bara, https://www.merdeka.com/peristiwa/tambang-batu-bara-dituding-ikut-jadi-penyebab-banjir-disamarinda.html, https://www.mongabay.co.id/2017/06/10/mereka-yang-kehilangan-buah-hati-di-lubangtambang-batubara/). We consult the reliability of local news sources using studies from by JATAM. WALHI, and Waterkeeper Alliance. The research may be obtained at the following websites: https://www.jatam.org/wp-content/uploads/2021/07/deadly-coal-series-Bahasa-Indonesia.pdf,





### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

E-ISNN: 2621-4210 P-ISNN: 1979-746X

governmental organizations (NGOs) in amplifying society's views.

### **Desk Study of Impacted Communities**

Brief Description	Main Actor	Main Agitator	Impacted	Government's
brief Description	Main Actor	Main Agitator	Actors	Response
West Kalimantan,	• Pempro	• Local	• Local	Head of the
Samarinda:	v Kaltim	communities	farmers	East
• Pemprov	Mining	• JATAM	Elderly	Kalimantan
Kaltim licensed	compani	Waterkeeper	people	Provincial
1.041 coal	es	Alliance	• Babies,	Office of
firms. There are			young	Petroleum and
around 800			and	Energy did not
permits that are			adults	want to
both non-clear				confirm
and clean.				
Meanwhile,				
mining has a				
tremendous				
impact on the				
residents of				
Samarinda and				

https://waterkeeper.org/wp-content/uploads/2017/05/Hungry-Coal-English-Web.pdf, and https://www.walhi.or.id/wp-content/uploads/Laporan%20Tahunan/FINAL%20IKN%20REPORT.pdf. Several of news sources listed in the study, including kliksangatta.com, antarakaltim.com, and kaltim.prokal.co, were no longer operational.





E-ISNN: 2621-4210

P-ISNN: 1979-746X

### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

Kutai Kartanegara, affecting not only their livelihood but also their health and civil rights. In Kutai, for example, Mulawarman residents may face harassment if they refuse to sell their property. Residents eventually agreed to sell

the paddy

fields to the





E-ISNN: 2621-4210

P-ISNN: 1979-746X

### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

corporation because the mining operations were mostly upstream, causing floods and draughts. According to the JATAM and WA research, iron concentrations in seven of the 17 water samples are greater than 1 ppm, posing a risk to rice and fish farms. One sample reportedly had



# JURNAL EKBIS PRINTER



## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

			l				
up to 119 ppm.							
The value in							
one sample was							
119 ppm.							
Sample 15 was							
collected from							
an irrigation							
channel that							
supplied water							
to rice crops							
and fish farms.							
As a result, iron							
may be found							
in almost any							
grain or							
seafood.							
Bengkulu, Merigi:	•	PT.	•	Rejang Gunung	Local	•	The
The existence		Citra		Bungkuk	farmers and		regional
of underground		Buana		Forum (FRGB)	communities		administrat
coal mining,		Selaras	•	WALHI, the			ion
which produces	•	Police		KPA, KontraS,			declared
pollution and	•	TNI		JATAM, and			that they
			l			l	



# JURNAL EKBIS PRINTER



## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

environmental	other civil	do not have
harm,	society	the right to
endangers	organizations	stop the
-		_
civilian	denounced the	mine
communities.	police officers'	because it
• Farmers want	aggression,	has passed
1 4111025 77411	uggressiony	nus pusseu
the company's	arrogance, and	the
permission	injustice.	AMDAL of
withdrawn and	• They	the
its operations	encouraged the	Environme
terminated.	police to stop	ntal
The location,	employing	Agency
on the other	violence in	and the
hand, was	dealing with	Mining
secured by	environmental	Agency.
police and the	and natural	The central
TNI. The	resource/agraria	Bengkulu
protesters	n problems, and	regent, on
eventually	to stop assisting	the other
collide.	and siding with	hand,
Officers used	companies in	announced
tear gas and	disputes with	that all
I	<u> </u>	





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

shot many			citizens.			medical
individuals.		•	The Civil			bills for
			Society			conflict
			Coalition also			casualties
			urges President			will be
			Joko Widodo to			covered.
			emphasize			
			environmental			
			sustainability			
			and citizen			
			welfare, as well			
			as to put an end			
			to harmful			
			mining.			
West Kalimantan,	PT Ganda	•	Local	•	Elderly	There has been
Sempayau:	Alam		community	•	Babies	no response
Coal mining	Mandiri	•	Village head			from the
activity is	(GAM)					government,
around 700						except from the
meters from the						village head
nearest						(kepala desa),
dwellings. This						who has also
				<u> </u>		





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

circumstance			urged the
has resulted in			company to be
significant air			responsible.
pollution (high			
intensity dust).			
In October of			
2016, the firm			
commenced			
operations.			
However,			
residents worry			
not just about			
the air			
pollution, but			
also about the			
machine's noise			
and brightness.			
• Meanwhile, PT			
GAM is still			
operating			
without a			
complete			
	L	l	



# JURNAL EKBIS PRINTER



### ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

authorization,				
having				
acquired just a				
"regional				
suggestion				
permit" in 2009				
and a				
"provincial				
recommendatio				
n permit" in				
2010.				
East Sumatera,	CV Bara	Victim's family	Productive	No response
Sawahlunto:	Mitra		age man	
• In March 2017,	Kencana			
more than two	(BMK)			
persons were				
killed in the				
coal mining				
area. Coal				
mining in				
Sawahlunto				
has raised the				





## ANALISIS, PREDIKSI, DAN INFORMASI

https://jurnalekonomi.unisla.ac.id

possibility of					
methane gas.					
Two locations					
burst in one					
month, killing					
three people.					
West Kalimantan,	1.400 coal	•	JATAM	Children	KLHK,
Sanga-Sanga:	companies	•	Victims'		Kemenhut,
Between 2011	in East		mothers		POLRI, and
and 2015, 21	Kalimantan				KSP have
children	on general				announced
drowned in pit	and Sanga				that they will
mines, with the	Sanga on				conduct "joint
figure	specific				surveillance"
increasing to 25					under the
by November					supervision of
2016. JATAM,					the
along with					coordinating
women and					ministry for
children,					political and
demands that					security
the government					matters.





E-ISNN: 2621-4210

P-ISNN - 1979- 746X

### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

omi.umsia.ac.id			
investigate and			
revoke all			
mining licences			
near residential			
areas			
immediately.			

Notes: compiled from various such pedomanbengkulu.com, eksposkaltim.com, sources, kaltim.tribunnews.com, Kompas.com, and kaltim.prokal.co. Crosschecked using official report from *JATAM*, Waterkeeper Alliance, and WALHI.

#### CONCLUSIONS AND RECOMMENDATIONS

#### **Conclusions**

It contains an answer or explanation to the problem of research. Moreover, it can also be added to the development prospects of the research and the further application in subsequent studies.

There is no one-size-fits-all answer to severing Indonesia's coal mining chain. As demonstrated, there was still a significant desire to use coal energy. However, it should be an imposition on the government to develop particular policies that promote green energy. Coal mining, in this respect, need widespread agreement at the national, municipal, and international levels. The coal mining business is not a separate enterprise in terms of macroeconomics; rather, it is complicated and linked across countries. Most nations should share the same environmental concerns in order to minimize the use of coal, so that negative externalities are not borne by the people.

#### REFERENCE

Aamodt, S., & Stensdal, I. (2017). Seizing policy windows: Policy Influence of climate advocacy coalitions in Brazil, China, and India, 2000-2015. Global Environmental Change, 46(August), 114–125. https://doi.org/10.1016/j.gloenvcha.2017.08.006

Adena, M., Enikolopov, R., Petrova, M., Santarosa, V., & Zhuravskaya, E. (2015). Radio and the rise of the Nazis in prewar Germany. Quarterly Journal of Economics, 130(4), 1885–1939. https://doi.org/10.1093/qje/qjv030

Alemán, E., Cabezas, J. M., & Calvo, E. (2021). Coalition incentives and party bias in Chile.





E-ISNN: 2621-4210

### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

- P-ISNN: 1979-746X Electoral Studies, 72(December 2020). https://doi.org/10.1016/j.electstud.2021.102362
- Besley, T., Pande, R., & Rao, V. (2012). Just rewards? Local politics and public resource allocation in South India. World Bank Economic Review, 26(2), 191-216. https://doi.org/10.1093/wber/lhr039
- Brauers, H., Oei, P. Y., & Walk, P. (2020). Comparing coal phase-out pathways: The United Kingdom's and Germany's diverging transitions. Environmental Innovation and 238-253. Societal Transitions, 37(January 2019). https://doi.org/10.1016/j.eist.2020.09.001
- Breul, M., & Nguyen, T. X. T. (2021). The impact of extractive industries on regional diversification – evidence from Vietnam. Extractive Industries and Society, 11(August 2021), 100982. https://doi.org/10.1016/j.exis.2021.100982
- Camba, A. (2021). Sinews of politics: State Grid Corporation, investment coalitions, and embeddedness in the Philippines. Energy Strategy Reviews, 35(December 2020), 100640. https://doi.org/10.1016/j.esr.2021.100640
- Chen, J., & Xie, L. (2019). Industrial policy, structural transformation and economic growth: evidence from China. Frontiers of Business Research in China, https://doi.org/10.1186/s11782-019-0065-v
- Chen, K., Jefferson, G. H., & Singh, I. (1992). Lessons from China's economic reform. Journal of Comparative Economics, 16(2), 201-225. https://doi.org/10.1016/0147-5967(92)90132-Q
- Curran, G. (2021). Coal, climate and change: The narrative drivers of Australia's coal Research Energy and Social Science, 74(March), https://doi.org/10.1016/j.erss.2021.101955
- Delina, L. L. (2021). Committing to coal? Scripts, sociotechnical imaginaries, and the resurgence of a coal regime in the Philippines. Energy Research and Social Science, 81(March), 102258. https://doi.org/10.1016/j.erss.2021.102258
- Delina, L. L. (2022). Coal development and its discontents: Modes, strategies, and tactics of a localized, yet networked, anti-coal mobilisation in central Philippines. Extractive and Society, 9(October 2021), 101043. Industries https://doi.org/10.1016/j.exis.2022.101043
- Dorband, I. I., Jakob, M., & Steckel, J. C. (2020). Unraveling the political economy of coal: from Vietnam. Energy Policy, 147(July), https://doi.org/10.1016/j.enpol.2020.111860
- Edenhofer, O., Steckel, J. C., Jakob, M., & Bertram, C. (2018). Reports of coal's terminal may be exaggerated. Environmental Research https://doi.org/10.1088/1748-9326/aaa3a2
- Febriani, A., Istanti, D. J., & Wibowo, P. (2021). Teori Oligarki Winters Atas Penambangan Batubara Di Kalimantan Timur (Relasi Pengusaha Menjadi Penguasa). Jurnal Ilmiah Widya Sosiopolitika, 2(2), 117. https://doi.org/10.24843/jiwsp.2020.v02.i02.p05
- Fforde, A. (2016). Vietnam: Economic strategy and economic reality. Journal of Current Southeast Asian Affairs, 35(2), 3–30. https://doi.org/10.1177/186810341603500201
- Fossati, D., Aspinall, E., Muhtadi, B., & Warburton, E. (2020). Ideological representation in clientelistic democracies: The Indonesian case. *Electoral Studies*, 63(November 2019), 102111. https://doi.org/10.1016/j.electstud.2019.102111





### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

- Friederich, M. C., & van Leeuwen, T. (2017). A review of the history of coal exploration, discovery and production in Indonesia: The interplay of legal framework, coal geology and exploration strategy. International Journal of Coal Geology, 178(December 2016), 56–73. https://doi.org/10.1016/j.coal.2017.04.007
- Fuentes González, F., van der Weijde, A. H., & Sauma, E. (2020). The promotion of community energy projects in Chile and Scotland: An economic approach using biform games. Energy Economics, 86, 104677. https://doi.org/10.1016/j.eneco.2020.104677
- Gainza, X., Livert, F., & Mogollón, R. J. (2021). Electoral incentives and distributive politics in young democracies: Evidence from Chile. Electoral Studies, 73(October 2020). https://doi.org/10.1016/j.electstud.2021.102377
- Garnaut, R., & Song, L. (2012). China: Twenty Years of Economic Reform. In China: Twenty Years of Economic Reform. https://doi.org/10.26530/oapen\_459887
- Greenpeace Indonesia. (2014). How coal mining hurts the Indonesian economy. Greenpeace Indonesia, March, 13.
- Jakob, M., Flachsland, C., Christoph Steckel, J., & Urpelainen, J. (2020). Actors, objectives, context: A framework of the political economy of energy and climate policy applied to India, Indonesia, and Vietnam. Energy Research and Social Science, 70(October), 101775. https://doi.org/10.1016/j.erss.2020.101775
- Jakob, M., & Steckel, J. C. (2022). The Political Economy of Coal. In *The Political Economy* of Coal. https://doi.org/10.4324/9781003044543
- Lewis, B. D., & Hendrawan, A. (2019). The impact of majority coalitions on local government spending, service delivery, and corruption in Indonesia. European Journal Political Economy. 58(November 2018). 178-191. of https://doi.org/10.1016/j.ejpoleco.2018.11.002
- Liang, J., He, P., & Qiu, Y. (Lucy). (2021). Energy transition, public expressions, and local officials' incentives: Social media evidence from the coal-to-gas transition in China. 298. **Journal** Cleaner Production, 126771. https://doi.org/10.1016/j.jclepro.2021.126771
- Lin, B., & Bega, F. (2021). China's Belt & Road Initiative coal power cooperation: Transitioning toward low-carbon development. Energy Policy, 156(January), 112438. https://doi.org/10.1016/j.enpol.2021.112438
- Markard, J., Rinscheid, A., & Widdel, L. (2021). Analyzing transitions through the lens of discourse networks: Coal phase-out in Germany. Environmental Innovation and Societal Transitions, 40(September), 315-331. https://doi.org/10.1016/j.eist.2021.08.001
- Marquardt, J. (2015). The politics of energy and development: Aid diversification in the Philippines. Energy Research and Social Science, 259-272. https://doi.org/10.1016/j.erss.2015.07.013
- Mengist, W., Soromessa, T., & Legese, G. (2020). Method for conducting systematic literature review and meta-analysis for environmental science research. MethodsX, 7, 100777. https://doi.org/10.1016/j.mex.2019.100777
- Mietzner, M. (2016). Coercing loyalty: Coalitional presidentialism and party politics in jokowi's Indonesia. *Contemporary* Southeast Asia, 38(2), 209-232. https://doi.org/10.1355/cs38-2b





### **ANALISIS, PREDIKSI, DAN INFORMASI**

https://jurnalekonomi.unisla.ac.id

- Montrone, L., Ohlendorf, N., & Chandra, R. (2021). The political economy of coal in India Evidence from expert interviews. Energy for Sustainable Development, 61, 230–240. https://doi.org/10.1016/j.esd.2021.02.003
- Ordonez, J. A., Jakob, M., Steckel, J. C., & Fünfgeld, A. (2021). Coal, power and coalpowered politics in Indonesia. Environmental Science and Policy, 123(June 2020), 44– 57. https://doi.org/10.1016/j.envsci.2021.05.007
- Sanjaya, M. R. (2016). The Political Economy of Coalition in Indonesia. Journal of Developing Economies, 1(1), 1–11. https://doi.org/10.20473/jde.v1i1.1773
- Sarwedi, S. (2010). Determinant Analysis of Supply Change of Indonesia's Export Product. Moneter Dan Perbankan. 329-348. Buletin Ekonomi 12(3). https://doi.org/10.21098/bemp.v12i3.375
- Shukla, R., & Swarnakar, P. (2022). Energy justice in post-Paris India: Unpacking consensus and conflict through storylines and discourse coalitions. Energy Research and Social Science, 91(October 2021), 102687. https://doi.org/10.1016/j.erss.2022.102687
- Sovacool, B. K., & Martiskainen, M. (2020). Hot transformations: Governing rapid and deep household heating transitions in China, Denmark, Finland and the United Kingdom. Energy Policy, 139(January), 111330. https://doi.org/10.1016/j.enpol.2020.111330
- Springer, C. H. (2022). China's withdrawal from overseas coal in context. World Development Perspectives, 25, 100397. https://doi.org/10.1016/j.wdp.2022.100397
- Steckel, J. C., & Jakob, M. (2021). The political economy of coal: Lessons learnt from 15 case studies. World Development Perspectives. 100368. https://doi.org/10.1016/j.wdp.2021.100368
- Tan, H., Thurbon, E., Kim, S. Y., & Mathews, J. A. (2021). Overcoming incumbent resistance to the clean energy shift: How local governments act as change agents in coal station closures China. Energy Policy, 149(January), in https://doi.org/10.1016/j.enpol.2020.112058
- Wang, Y., Wang, D., & Shi, X. (2022). Exploring the multidimensional effects of China's coal de-capacity policy: A regression discontinuity design. Resources Policy, 75(December 2021), 102504. https://doi.org/10.1016/j.resourpol.2021.102504
  - Zimmer, A., Jakob, M., & Steckel, J. C. (2015). What motivates Vietnam to strive for a low-carbon economy? - On the drivers of climate policy in a developing country. Sustainable Development, 24. https://doi.org/10.1016/j.esd.2014.10.003