No **Company** Code **Company** Name Adaro Energy Tbk. **ADRO** 1 2 Aneka Tambang Tbk. **ANTM** Apexindo Pratama Duta Tbk. 3 **APEX** Atlas Resources Tbk. 4 ARII Ratu Prabu Energi Tbk 5 ARTI Bara Jaya Internasional Tbk. ATPK 6 7 Astrindo Nusantara Infrastrukt BIPI Borneo Lumbung Energi & Metal 8 **BORN** Borneo Olah Sarana Sukses Tbk. 9 BOSS Baramulti Suksessarana Tbk. 10 **BSSR** Bumi Resources Tbk. 11 **BUMI** 12 Bayan Resources Tbk. **BYAN** Cita Mineral Investindo Tbk. 13 CITA Cakra Mineral Tbk. 14 **CKRA** Citatah Tbk. 15 CTTH Darma Henwa Tbk 16 DEWA Central Omega Resources Tbk. 17 **DKFT** Delta Dunia Makmur Tbk. 18 DOID Dian Swastatika Sentosa Tbk 19 DSSA Elnusa Tbk. 20 **ELSA** Energi Mega Persada Tbk. 21 **ENRG** Surya Esa Perkasa Tbk. 22 **ESSA** Alfa Energi Investama Tbk. 23 FIRE Golden Energy Mines Tbk. 24 **GEMS** Garda Tujuh Buana Tbk 25 **GTBO** Harum Energy Tbk. 26 HRUM Vale Indonesia Tbk. 27 INCO 28 INDY Indika Energy Tbk. Indo Tambangraya Megah Tbk. 29 ITMG 30 KKGI Resource Alam Indonesia Tbk. 31 Mitrabara Adiperdana Tbk. MBAP Merdeka Copper Gold Tbk. 32 **MDKA** Medco Energi Internasional Tbk 33 MEDC Mitra Investindo Tbk. 34 MITI Samindo Resources Tbk. 35 MYOH Perdana Karya Per<mark>ka</mark>sa Tbk 36 **PKPK** 37 **PSAB** J Resources Asia Pasifik Tbk. Bukit Asam Tbk. 38 **PTBA** Petrosea Tbk. 39 PTRO 40 Radiant Utama Interinsco Tbk. RUIS Sekawan Intipratama Tbk 41 SIAP Golden Eagle Energy Tbk. 42 **SMMT**

Appendix 1 : List Populations of Mining Companies Listed in Indonesia Stock Exchange For Period 2013 – 2017

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43	SMRU	SMR Utama Tbk.
44	SURE	Super Energy Tbk.
45	TINS	Timah Tbk.
46	TOBA	Toba Bara Sejahtr <mark>a T</mark> bk.
47	ZINC	Kapuas Prima Coal Tbk.

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No	Company Code	Compan <mark>y</mark> Name
1	ANTM	Aneka Tambang Tbk.
2	ITMG	Indo Tambangraya <mark>M</mark> egah Tbk.
3	ADRO	Adaro Energy Tbk.
4	BUMI	Bumi Resources Tbk.
5	INCO	Vale Indonesia Tbk.
6	MEDC	Medco Energi Internasional Tbk
7	ELSA	Elnusa Tbk.
8	PTBA	Bukit Asam Tbk.
9	INDY	Indika Energy Tbk.
10	PTRO	Petrosea Tbk.
11	TINS	Timah Tbk.

Appendix 2 : List of Samples of Mining Companies Listed in Indonesia Stock Exchange For Period 2013 – 2017

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Catagory · Fannamy						
Category : Economy						
	EC1	Direct Economic Value Generated And Distributed				
Economic Performance	EC2	Financial Implications and Other Opportunity For The Organization's Activities Due To Climate Change				
	EC3	Coverage Of The Organization's Defined Benefi Plan Obligations				
	EC4	Financial Assistance Received From Governmen				
Markat Dracanaa	EC5	Ratios of standard entry level wage by gender compared to local minimum wage at significant locations of operation				
Market Presence	EC6	Proportion of senior management hired from the local community at significant locations of operation				
Indianat Economia Importa	EC7	Development and impact of infrastructure investments and services supported				
Indirect Economic Impacts	EC8	Significant indirect economic impacts, including the extent of impacts				
Procurement Practices	EC9	Proportion of spending on local suppliers at significant locations of operation				
Category : Environmental						
	EN1	Materials used by weight or volume				
Materials	EN2	Percentage of materials used that are recycled input materials				
	EN3	Energy consumption within the organization				
	EN4	Energy consumption outside of the organization				
Enormy	EN5	Energy intensity				
Energy	EN6	Reduction of energy consumption				
	EN7	Reductions in energy requirements of products and services				
	EN8	Total water withdrawal by source				
Water	EN9	Water sources significantly affected by withdrawal of water				
	EN10	Percentage and total volume of water recycled and reused				
	EN11	Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas				
Biodiversity	EN12	Description of significant impacts of activities, products, and services on biodiversity in protected areas and areas of high biodiversity value outside protected areas				
	EN13	Habitats protected or restored				
	EN14	Total number of IUCN Red List species and national conservation list species with habitats ir				
		areas affected by operations, by level of				

Appendix 3 : 91 GRI G4 Sustainability Report Indicators and Results of ROA, SIZE, DER, and Sustainability Report

		extinction risk				
	EN15	Direct greenhouse gas (GHG) emissions (Scope 1)				
	EN16	Energy indirect greenhouse gas (GHG) emission (Scope 2)				
Emissions	EN17	Other indirect greenhouse gas (GHG) emissions (Scope 3)				
	EN18	Greenhouse gas (GHG) emissions intensity				
	EN19	Reduction of greenhouse gas (GHG) emissions				
	EN20	Emissions of ozone-depleting substances (OD				
	EN21	NOX, SOX, and other significant air emissions				
	EN22	Total water discharge by quality and destination				
	EN23	Total weight of waste by type and disposal method				
	EN24	Total number and volume of significant spills				
Effluents and Waste	EN25	Weight of transported, imported, exported, or treated waste deemed hazardous under the terms				
	EN26	Identity, size, protected status, and biodiversity value of water bodies and related habitats significantly affected by the organization's discharges of water and runoff				
Products and Service	EN27	Extent of impact mitigation of environmental impacts of products and services				
Toducts and Service	EN28	Percentage of products sold and their packaging materials that are reclaimed by category				
	EN29	Monetary value of significant fines and total number of non-monetary sanctions for non- compliance with environmental laws and regulations				
Fransport	EN30	Significant environmental impacts of transportin products and other goods and materials for the organization's operations, and transporting members of the workforce				
Dverall	EN31	Total environmental protection expenditures and investments by type				
	EN32	Percentage of new suppliers that were screened using environmental criteria				
Suplier Environmental Assesment	EN33	Significant actual and potential negative environmental impacts in the supply chain and actions taken				
Environmental Grievance Mechanisms	EN34	Number of grievances about environmental impacts filed, addressed, and resolved through formal grievance mechanisms				
Category : Social						

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Practices LA15 Significant actual and potential negative impacts for labor practices in the supply chain and action taken Labor Practices Grievance LA16 Number of grievances about labor practices filed addressed, and resolved through formal grievance mechanisms	-	LAIS	locations of operation Percentage of new suppliers that were screened			
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Mechanisms LA16 addressed, and resolved through formal grievance mechanisms	Men Supplier Assesment for Labor	LA13	locations of operation Percentage of new suppliers that were screened using labor practices criteria Significant actual and potential negative impacts for labor practices in the supply chain and actions			
mechanisms mechanisms	Men Supplier Assesment for Labor	LA13	locations of operation Percentage of new suppliers that were screened using labor practices criteria Significant actual and potential negative impacts for labor practices in the supply chain and actions taken			
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	Men Supplier Assesment for Labor Practices	LA13 LA14 LA15	locations of operation Percentage of new suppliers that were screened using labor practices criteria Significant actual and potential negative impacts for labor practices in the supply chain and actions taken Number of grievances about labor practices filed, addressed, and resolved through formal grievance			

	HR1	Total number and percentage of significant investment agreements and contracts that include human rights clauses or that underwent human rights screening
Investment	HR2	Total hours of employee training on human rights policies or procedures concerning aspects of human rights that are relevant to operations, including the percentage of employees trained
Non-discrimination	HR3	Total number of incidents of discrimination and corrective actions taken
Freedom of Association and Collective Bargaining	HR4	Operations and suppliers identified in which the right to exercise freedom of association and collective bargaining may be violated or at significant risk, and measures taken to support these rights
Child Labor	HR5	Operations and suppliers identified as having significant risk for incidents of child labor, and measures taken to contribute to the effective abolition of child labor
Forced or Compulsory Labor	HR6	Operations and suppliers identified as having significant risk for incidents of forced or compulsory labor, and measures to contribute to the elimination of all forms of forced or compulsory labor
Security Practices	HR7	Percentage of security personnel trained in the organization's human rights policies or procedures that are relevant to operations
Indigenous Rights	HR8	Total number of incidents of violations involving rights of indigenous peoples and actions taken
Assesment	HR9	Total number and percentage of operations that have been subject to human rights reviews or impact assessments
	HR10	Percentage of new suppliers that were screened using human rights criteria
Supplier Human Rights Assesment	HR11	Significant actual and potential negative human rights impacts in the supply chain and actions taken
Human Rights Grievance Mechanism	HR12	Number of grievances about human rights impacts filed, addressed, and resolved through formal grievance mechanisms
Sub Category : Society		
Local Communities	SO1	Percentage of operations with implemented local community engagement, impact assessments, and development programs
	SO2	Operations with significant actual or potential negative impacts on local communities

	SO3	Total number and percentage of operations assessed for risks related to corruption and the significant risks identified
Anti-corruption	SO4	Communication and training on anti-corruption policies and procedures
	SO5	Confirmed incidents of corruption and actions
Public Policy	SO6	Total value of political contributions by country and recipient/beneficiary
Anti-competitive Behavior	SO7	Total number of legal actions for anti-competitiv behavior, anti-trust, and monopoly practices and their outcomes
Compliance	SO8	Monetary value of significant fines and total number of non-monetary sanctions for non- compliance with laws and regulations
	SO9	Percentage of new suppliers that were screened using criteria for impacts on society
Supplier Assesment for Impacts on Society	SO 10	Significant actual and potential negative impacts on society in the supply chain and actions taken
Grievance Mechanism for Impacts on Society	SO11	Number of grievances about impacts on society filed, addressed, and resolved through formal grievance mechanisms
Sub Category : Product Responsibility		
Universi	PR1	Percentage of significant product and service categories for which health and safety impacts are assessed for improvement
Customer Health and Safety	PR2	Total number of incidents of non-compliance with regulations and voluntary codes concerning the health and safety impacts of products and services during their life cycle, by type of outcomes
	PR3	Type of product and service information require by the organization's procedures for product and service information and labeling, and percentage of significant product and service categories subject to such information requirements
Products and Service Labeling	PR4	Total number of incidents of non-compliance with regulations and voluntary codes concerning product and service information and labeling, by type of outcomes
Universit	PR5	Results of surveys measuring customer satisfaction
Marketing Communications	PR6	Sale of banned or disputed products

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		PR7	Total number of incidents of non-compliance with regulations and voluntary codes concerning marketing communications, including advertising, promotion, and sponsorship, by type of outcomes
	Customer Privacy	PR8	Total number of substantiated complaints regarding breaches of customer privacy and losses of customer data
	Compliance	PR9	Monetary value of significant fines for non- compliance with laws and regulations concerning the provision and use of products and services
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N T	Appendix 4 : Results of R					
No	Company Name	Year	ROA	SIZE	DER	Sustainability Report
1	Aneka Tambang Tbk.	2013	0,019	19, <mark>4</mark> 10	0,006	0,505
2	Aneka Tambang Tbk.	2014	-0,048	1 <mark>9,</mark> 430	0,848	0,516
3	Aneka Tambang Tbk.	2015	-0,048	19,850	0,657	0,857
4	Aneka Tambang Tbk.	2016	0,002	26,720	0,629	0,341
5	Aneka Tambang Tbk.	2017	0,005	26,730	0,623	0,385
6	Indo Tambangraya Megah Tbk.	2013	0,166	23,560	0,444	0,319
7	Indo Tambangraya Megah Tbk.	2014	0,153	23,510	0,455	0,396
8	Indo Tambangraya Megah Tbk.	2015	0,054	23,510	0,412	0,330
9	Indo Tambangraya Megah Tbk.	2016	0,108	23,510	0,333	0,275
10	Indo Tambangraya Megah Tbk.	2017	0,186	23,640	0,418	0,132
11	Adaro Energy Tbk.	2013	0,034	18,230	1,108	0,868
12	Adaro Energy Tbk.	2014	0,029	18,190	0,969	0,868
13	Adaro Energy Tbk.	2015	0,025	18,220	0,777	0,264
14	Adaro Energy Tbk.	2016	0,052	18,290	0,723	0,264
15	Adaro Energy Tbk.	2017	0,079	18,340	0,665	0,264
16	Bumi Resources Tbk.	2013	-0,097	15,440	17,908	0,154
17	Bumi Resources Tbk.	2014	-129,581	22,250	-7,174	0,038
18	Bumi Resources Tbk.	2015	-0,064	21,9 <mark>5</mark> 0	-5,217	0,516
19	Bumi Resources Tbk.	2016	0,039	21, <mark>86</mark> 0	-2,114	0,540
20	Bumi Resources Tbk.	2017	0,066	17 <mark>,7</mark> 30	11,909	0,198
21	Vale Indonesia Tbk.	2013	0,017	<mark>24</mark> ,060	0,331	0,319
22	Vale Indonesia Tbk.	2014	0,074	24,090	0,307	0,374
23	Vale Indonesia Tbk.	2015	0,022	24,180	0,248	0,495
24	Vale Indonesia Tbk.	2016	0,001	24,120	0,213	0,088
25	Vale Indonesia Tbk.	2017	-0,007	24,110	0,201	0,143
26	Medco Energi Internasional Tbk.	2013	0,007	17,240	1,823	0,308
27	Medco Energi Internasional Tbk.	2014	0,004	17,330	1,936	0,308
28	Medco Energi Internasional Tbk.	2015	-0,064	17,510	3,147	0,341
29	Medco Energi Internasional Tbk.	2016	0,051	31,510	3,039	0,341
30	Medco Energi Internasional Tbk.	2017	0,037	18,060	2,679	0,341
31	Elnusa Tbk.	2013	0,056	15,290	0,913	0,176
32	Elnusa Tbk.	2014	0,099	15,260	0,644	0,495
33	Elnusa Tbk.	2015	0,085	15,300	0,668	0,473
34	Elnusa Tbk.	2016	0,008	15,250	0,456	0,264
35	Elnusa Tbk.	2017	0,049	15,4 <mark>0</mark> 0	0,591	0,154
36	Bukit Asam Tbk.	2013	0,159	16, <mark>27</mark> 0	0,555	0,473
37	Bukit Asam Tbk.	2014	0,136	16 <mark>,5</mark> 10	0,718	0,154
38	Bukit Asam Tbk.	2015	0,121	<mark>16</mark> ,640	0,829	0,927
39	Bukit Asam Tbk.	2016	0,109	16,740	0,770	0,538
40	Bukit Asam Tbk.	2017	0,207	16,910	0,602	0,231
41	Indika Energy Tbk.	2013	-0,023	30,980	1,439	0,231
42	Indika Energy Tbk.	2014	-0,013	30,980	1,510	0,110

Appendix 4 : Results of ROA, SIZE, DER, and Sustainability Report

43	Indika Energy Tbk.	2015	-0,036	31,020	15,861	0,110
44	Indika Energy Tbk.	2016	-0,057	30,830	1,459	0,132
45	Indika Energy Tbk.	2017	0,089	31, <mark>53</mark> 0	2,261	0,110
46	Petrosea Tbk.	2013	0,034	22, <mark>56</mark> 0	1,577	0,495
47	Petrosea Tbk.	2014	0,005	15 <mark>,</mark> 580	1,426	0,165
48	Petrosea Tbk.	2015	-0,030	<mark>15</mark> ,580	1,386	0,154
49	Petrosea Tbk.	2016	-0,020	15,480	1,308	0,132
50	Petrosea Tbk.	2017	0,019	15,590	1,447	0,143
51	Timah Tbk.	2013	0,065	15,880	0,611	0,901
52	Timah Tbk.	2014	0,065	16,090	0,739	0,560
53	Timah Tbk.	2015	0,011	16,040	0,728	0,538
54	Timah Tbk.	2016	0,030	16,070	0,689	0,637
55	Timah Tbk.	2017	0,043	16,290	0,959	0,495

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