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1	The Ethical Dilemma of Green Economy: Examining the Human
2	and Environmental Costs of Cobalt Mining in DRC
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7 Abstract

8 This article discusses the ethical challenges of the green economy using cobalt mining in the

• DRC as an example. The rising demand for cobalt, a crucial mineral in the manufacture of

¹⁰ renewable energy technologies, has resulted in serious abuses of human rights and

¹¹ environmental damage in the DRC. The article offers suggestions for addressing the ethical

¹² and environmental issues linked with cobalt mining in the DRC. These ideas include

responsible sourcing policy, interaction with the community, sustainable mining techniques,
 and support for alternative technologies. The production of essential minerals must prioritize

¹⁴ and support for alternative technologies. The production of essential innerals must product ¹⁵ human rights and environmental preservation, and community engagement and sustainable

¹⁶ mining techniques can assist in mitigating negative impacts and ensuring equitable

¹⁷ distribution of benefits. The shift to a low-carbon economy is crucial to combating climate

¹⁸ change, but it must be accomplished in an ethical and sustainable manner. By addressing the

¹⁹ ethical and environmental considerations involved with the creation of renewable energy

 $_{\rm 20}$ $\,$ technology, we can ensure that the transition to a low-carbon economy is accomplished in a

 $_{\rm 21}$ $\,$ way that is beneficial to both people and the environment. To build a more just and equitable

²² green economy, it is vital to take a complete and balanced strategy that evaluates the benefits

²³ and possible costs of renewable energy technologies.

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Index terms— ethical dilemma, green economy, cobalt mining, democratic republic of the congo (DRC), human rights violations

27 **1** Introduction

he green economy's ethical dilemma is concerned with the potential human and environmental costs connected 28 with the transition to a low-carbon economy (Goldthau A, 2018). The source of minerals used in renewable energy 29 technologies, such as cobalt, which is mostly mined in the Democratic Republic of the Congo (DRC), is a critical 30 concern in this respect. The DRC's cobalt mining business has been linked to major human rights violations such 31 as child labor, forced labor, and unsafe working conditions (Amnesty, 2016). Mining firms have been accused of 32 exploiting disadvantaged populations, flouting labor laws, and violating workers' rights. Furthermore, the DRC 33 34 government's regulatory framework has been insufficient in protecting the rights of local populations and mining 35 workers (Bales, K. 2017).

The environmental consequences of cobalt mining in the DRC are also considerable. Mining has resulted in deforestation, soil erosion, and water contamination (Musingwini C, 2019). The use of harmful chemicals in the mining process, such as sulfuric acid and cyanide, has also harmed local ecosystems and water sources (Sapp A, 2020). The green economy's ethical dilemma stems from the conflict between the potential benefits of switching to renewable energy technology and the human and environmental costs connected with their production. The growing demand for cobalt, in particular, has put strain on the DRC mining industry, resulting in major human rights violations and environmental deterioration (Kennedy, 2019).

2 II. GLOBAL STATUS OF CERTAIN MINERALS AND FOSSIL FUELS

The ethical dilemma of the green economy necessitates a comprehensive solution that balances the benefits of renewable energy technologies with human rights and environmental protection. This can be accomplished through responsible sourcing policies that ensure mineral extraction while respecting human rights and the environment (IISD, 2019). It is also critical to collaborate with local communities to ensure their participation in decision-making processes and equitable sharing of benefits (Hilson G, 2018).

Responsible sourcing strategies are required to ensure that mining businesses adhere to ethical standards while also respecting human rights and the environment. Certification programs that validate the source and manufacturing processes of minerals used in renewable energy systems may be included in these policies. For example, the Responsible Minerals Initiative (RMI) is a certification program that attempts to enhance the ethical practices in the global mineral supply chain, including cobalt mining in the DRC. The RMI entails auditing, assessing, and verifying mining activities to ensure that they adhere to responsible sourcing criteria.

Working with local communities is also important for guaranteeing their participation in decision-making processes and the equal sharing of benefits. Mining corporations should engage with local communities to learn about their needs and concerns, and then collaborate to reduce the negative effects of mining activities. These can include community development programs that promote education, health, and infrastructure, as well as the creation of local supply chains that benefit the communities.

The ethical dilemma of the green economy necessitates a balanced strategy that takes into account the human and environmental costs connected with the development of renewable energy technology. The DRC's cobalt mining sector exemplifies the ethical problems of procuring minerals for renewable energy systems. Responsible sourcing regulations and community engagement can help to prevent the negative affects of mining activities and assure the production of renewable energy technologies in an ethical and sustainable manner. This paper investigates the ethical implications of cobalt mining in DRC, with an emphasis on the human and environmental costs involved.

⁶⁶ 2 II. Global Status of Certain Minerals and Fossil Fuels

The global status of particular minerals and fossil fuels fluctuates based on their availability, production, and demand. As the globe transitions to a low-carbon economy, demand for minerals such as lithium and cobalt is likely to skyrocket. Yet, ethical and environmental issues about their manufacture underline the importance of responsible sourcing and long-term mining techniques. Here's a quick rundown of the current state of some of the most important minerals and fossil fuels:

? Coal: Coal is still the most abundant fossil fuel on the planet, with worldwide reserves estimated to be more
than 1 trillion tons. Yet, due to worries about its contribution to climate change, coal's place in the global energy
mix is shrinking. According to the International Energy Agency (IEA), worldwide coal demand is predicted to
level and then drop during the next five years (IEA, 2020)).

? Oil: Oil is the most utilized fossil fuel on the planet, with global demand exceeding 99 million barrels per day
 in 2019. Despite the rise of renewable energy, oil remains a critical source of energy for transportation, heating,
 and industrial activities.

Concerns about climate change and the instability of oil prices, on the other hand, have prompted growing
 efforts to convert to alternate energy sources (IEA, 2020).

? Natural Gas: Natural gas is the fastest-growing fossil fuel, with demand expected to expand at a 1.6%
annual rate through 2040. Natural gas is a cleanerburning fuel than coal or oil and is frequently utilized as
a transition fuel to renewable energy. Concerns regarding methane emissions from natural gas production and
transportation, on the other hand, have sparked worries about its environmental impact (IEA, 2020).

? Lithium: Lithium is a crucial mineral used in the creation of batteries for electric vehicles and renewable
energy storage systems. As the globe transforms to a low-carbon economy, global demand for lithium is expected
to high. Yet, lithium manufacturing has been linked to environmental consequences such as water contamination
and habitat destruction. (IEA, 2019).

? Cobalt: Cobalt is another important mineral that is utilized in the manufacture of batteries for electric
 vehicles and renewable energy storage systems. Almost 70% of the world's cobalt comes from DRC, where
 human rights violations and environmental problems have created ethical issues regarding its production (IEA,
 2019).

? Rare Earth Elements (REEs): REEs are a category of minerals that are vital for the creation of high-tech 93 items such as cellphones, wind turbines, and electric vehicles. China now controls the majority of the worldwide 94 supply of REEs, raising worries about supply chain security and escalating geopolitical tensions (US Geological 95 96 Survey, 2021). Cobalt demand is increasing as the globe strives for a "greener" economy, with Electric vehicles 97 (EVs) replacing traditional gasoline/diesel vehicles, solar and wind energy being stored in massive batteries, and 98 the manufacture of smartphones and laptop computers. EVs are regarded as a promising means of reducing 99 greenhouse gas emissions and combating climate change (Gopalakrishnan, 2021). But, rising demand for battery minerals, particularly cobalt, a vital component of electric vehicle batteries, has resulted in an increase in demand 100 (The Economist, 2019) According to the International Energy Agency's (IEA) research, "The Role of Key Minerals 101 in Clean Energy Transitions," demand for minerals such as lithium, cobalt, and rare earth elements (REEs) is 102 likely to rise dramatically as the world transitions to a lowcarbon economy. According to the paper, demand for 103 lithium and cobalt might increase by 40 and 25 times, respectively, by 2040 to fulfill the needs of electric vehicle 104

and renewable energy storage system production (IEA, 2019). Similarly, demand for REEs is expected to climb 105 by more than 300% by 2040, owing to the increased use of high-tech items such as smartphones, wind turbines,

106 and electric vehicles. 107

These forecasts imply that the shift to a lowcarbon economy will necessitate a large increase in the production 108 of essential minerals. However, this increase must be complemented with responsible sourcing and sustainable 109

mining procedures in order to avoid ethical and environmental concerns related with their manufacturing. 110

3 Literature Review 111

The transition to a green economy has emerged as a global priority for tackling the climate change challenge. 112 Renewable energy technologies have the ability to reduce carbon emissions and alleviate climate change effects. 113 Unfortunately, the extraction of essential minerals is required for the development of these technologies, which 114 may have ethical and environmental concerns. The following literature review investigates the ethical issues 115

related with the development of renewable energy technology, as well as the necessity for responsible sourcing 116 rules. 117

118 Critical mineral production, such as cobalt, lithium, and rare earth elements, has been connected to human 119 rights violations and environmental deterioration in poor countries (IEA, 2020). One such example is the Democratic Republic of the Congo (DRC), where cobalt mining has been linked to child labor and hazardous 120 working conditions (Amnesty International, 2016). To promote a more just and equitable green economy, the 121 122 development of renewable energy technology must prioritize human rights and environmental conservation.

123 Responsible sourcing regulations are required to ensure the ethical production of key minerals utilized in renewable energy systems. Implementing responsible sourcing standards may include certification programs that 124 validate the origin and manufacturing methods of minerals. The Responsible Minerals Initiative (RMI) is an 125 industry-led project that strives to create a responsible minerals supply chain that respects human rights and 126 the environment (RMI, 2020). 127

Community engagement and sustainable mining methods can also play an important role in reducing negative 128 effects and ensuring equitable benefit distribution. Mining corporations should engage with local communities to 129 learn about their needs and concerns, and then collaborate to remedy the negative effects of mining activities. 130 Therefore, sustainable mining procedures that promote environmental preservation and minimize negative 131

consequences are essential (ICMM, 2018). 132

The survey of literature emphasizes the ethical problems connected with the development of renewable energy 133 technology, as well as the necessity for responsible sourcing rules. Implementing responsible sourcing policies and 134 sustainable mining methods, as well as community engagement, can help reduce the negative impacts of vital 135 minerals extraction and ensure a more just and equitable green economy. 136

IV. 4 137

5 Methodology 138

This article is a qualitative study of the ethical dilemma of the green economy and the human and environmental 139 costs of cobalt mining in the DRC. The research is based on secondary sources, such as academic publications, 140 international organization papers, and news stories. The literature review investigates the ethical difficulties 141 posed by the manufacture of renewable energy technology and the need for responsible sourcing rules. The 142 examination then concentrates on the issue of cobalt mining in the DRC and the attendant abuses of human 143 rights and environmental damage. 144

The research is based on a comprehensive literature assessment and includes results from multiple sources 145 to present a thorough and nuanced analysis of the ethical difficulties involved with the manufacturing of 146 renewable energy technology. The focus of the literature review is on scholarly works, reports from international 147 organizations, and news pieces that examine the ethical difficulties involved with the creation of renewable 148 energy technology and the need for responsible sourcing rules. The study of the cobalt mining issue in the DRC 149 is based on news stories and studies from international organizations that show the human rights violations and 150 environmental devastation linked with cobalt mining. 151

The research is constrained by the lack of data on cobalt mining in the DRC, a difficult area for data collecting 152 owing to political instability and poor governance. Notwithstanding this, the paper presents a complete review 153 of the ethical problems involved with the manufacture of renewable energy technology and the necessity of 154 155 responsible sourcing regulations.

Using cobalt mining in the DRC as a case study, this qualitative study provides a complete review of the 156 157 ethical problems connected with the manufacturing of renewable energy technology. The analysis emphasizes the need for responsible sourcing rules, community participation, sustainable mining methods, and the promotion of 158 alternative technologies in order to mitigate the negative effects of essential mineral production and promote a 159 more just and equitable green economy. 160 V.

161

162 6 Discussion

The Democratic Republic of the Congo (DRC) is a major cobalt producer, accounting for roughly 70% of global 163 cobalt production (USGS, 2021). However, cobalt mining in the Democratic Republic of the Congo is related 164 with a number of ethical difficulties, including worker exploitation and environmental destruction. The increasing 165 adoption of EVs by consumers and policymakers alike can be ascribed to the rising demand for cobalt. As countries 166 strive to reach their carbon reduction targets and phase out fossil-fuel-powered vehicles, the market for electric 167 vehicles is expected to grow quickly in the coming years (Gopalakrishnan, 2021). Nevertheless, the production 168 of EVs necessitates the usage of a substantial amount of cobalt, which is primarily mined in the Democratic 169 Republic of the Congo. 170

The use of cobalt in EVs has prompted issues about the ethics of the supply chain, particularly in connection to the human and environmental costs of mining in the DRC. The majority of cobalt mining in the DRC is done by artisanal and small-scale miners who operate in dangerous conditions for little pay (Amponsah-Dacosta & Akuffo, 2019). Furthermore, the mining process has caused severe environmental deterioration, such as deforestation and soil erosion, affecting the livelihoods of local residents (Amponsah-Dacosta & Akuffo, 2019).

Cobalt mining in the Democratic Republic of the Congo is primarily carried out by artisanal and smallscale miners who labor in exceedingly hazardous conditions. The mining technique entails excavating tunnels by hand, using primitive tools, and working in small places. Toxic particles in mining dust can cause lung disease, cancer, and other respiratory disorders. The miners, many of whom are children, work long hours in hazardous and unhealthy conditions with inadequate protective equipment (Amponsah-Dacosta & Akuffo, 2019).

The working conditions of miners in the DRC have been described as among the worst in the world (Amponsah-Dacosta & Akuffo, 2019). According to an Amnesty International (2016) investigation, children as young as seven years old work in cobalt mines in the DRC, where working conditions are "hazardous, unclean, and physically demanding." The research also underscores the fact that miners in the DRC are paid very little, with some earning as little as \$2 per day (Amnesty International, 2016).

In addition to the health dangers involved with cobalt mining in the DRC, the mining process has resulted in severe environmental deterioration. The mining process consumes a large quantity of water and energy, depleting natural resources and worsening the region's already vulnerable ecosystem. The mining process has led in deforestation, soil erosion, and waterway contamination, affecting the livelihoods of local residents (Amponsah-Dacosta & Akuffo, 2019).

The lack of transparency in the cobalt supply chain has made it impossible to trace the source of cobalt used in the fabrication of electric car batteries. This has made it difficult to ensure that the cobalt used in EV batteries is not linked to human rights violations and environmental destruction (Apple, 2020).

¹⁹⁴ 7 VI.

¹⁹⁵ 8 Analysis and Findings

The analysis of the green economy's ethical dilemma, especially in terms of cobalt mining in the DRC, shows how important it is to have responsible sourcing policies and sustainable mining practices to make sure that important minerals used in renewable energy technologies are mined in an ethical way. Here are the most important things that came out of the analysis:

200 ? Human Rights Violations: Human rights violations in developing countries have been linked to the mining 201 of important minerals like cobalt. Cobalt mining in the DRC is an example of this. There have been reports of 202 child labor and dangerous working conditions there. Putting in place responsible sourcing policies can help stop 203 these violations of human rights and make sure that critical minerals are made in a fair way.

204 ? Degradation of the environment: The mining of important minerals can also hurt the environment. In the 205 case of cobalt mining in the DRC, the lack of rules and enforcement has made it possible for mining companies 206 to ignore environmental rules, which has polluted the soil and water. It is important to use mining methods that 207 are good for the environment and have as few negative effects as possible.

208 ? Involving the community: Involving the community is important to make sure that benefits are shared fairly 209 and that problems caused by mining are fixed.

Mining companies should talk to people in the area to find out what they need and what worries them. They should also work together to solve problems caused by mining.

? Policies for Responsible Sourcing: Policies for responsible sourcing are needed to make sure that critical
 minerals used in renewable energy technologies are produced in an ethical way.

Responsible sourcing policies can be put into place with the help of certification programs that check where minerals come from and how they are made. The Responsible Minerals Initiative (RMI) is an industry-led effort to set up a responsible minerals supply chain that protects human rights and the environment.

? Alternative Technologies: Supporting alternative technologies, like solid-state batteries that use less cobalt,
 can help lower the demand for critical minerals and reduce the negative effects of making them.

The analysis of the green economy's ethical dilemma, especially in terms of cobalt mining in the DRC, shows how important it is to have responsible sourcing policies, sustainable mining practices, community involvement, and support for alternative technologies to make sure that important minerals used in renewable energy technologies are produced in an ethical way. To make sure that the change to a lowcarbon economy is 223 good for both people and the planet, the production of renewable energy technologies must address ethical and 224 environmental concerns.

²²⁵ 9 VII.

226 10 Recommendations

The ethical problem posed by the green economy necessitates a multifaceted strategy that strikes a balance between the advantages of renewable energy technology and the protection of human rights and the environment. The following recommendations are presented to resolve the ethical concerns related to cobalt mining in the DRC: ? Encouraging Other Technologies: The expansion of the renewable energy industry must be followed by innovations in alternative technologies, such as solid-state batteries, that minimize reliance on cobalt and other essential minerals (Gao, Y., & Chen, G. 2021).

The ethical issue of the green economy necessitates an all-encompassing strategy that balances the advantages of renewable energy technology with the protection of human rights and the environment. The aforementioned ideas can play a vital role in guaranteeing the ethical and sustainable production of important minerals utilized in renewable energy systems.

²³⁷ **11 VIII.**

238 12 Conclusion

The ethical issue of the green economy necessitates a comprehensive and balanced strategy that takes into account the possible advantages and costs of renewable energy technology. Frequently, the production of these technologies requires the extraction of key minerals, which may have ethical and environmental consequences. As such, cobalt mining in the Democratic Republic of the Congo serves as an illustration of the ethical issues brought by the green economy.

Demand for cobalt, a critical mineral in the development of renewable energy technology such as electric 244 vehicles and solar panels, has led to serious abuses of human rights and environmental degradation in the 245 Democratic Republic of the Congo. Lack of regulation and enforcement has permitted mining corporations 246 to exploit vulnerable communities and disrespect environmental standards. The production of essential minerals 247 necessitates sourcing rules that place human rights and environmental conservation first. Nevertheless, community 248 engagement and sustainable mining techniques can offset negative effects and guarantee equitable sharing of 249 benefits. This article's ideas, which include responsible sourcing rules, community participation, sustainable 250 mining methods, and support for alternative technologies, present a road map for establishing a more sustainable 251 and ethical green economy. To ensure that the transition to a low-carbon economy benefits both people and the 252 earth, it is crucial to address ethical and environmental concerns linked with the creation of renewable energy 253 technology. 254

The ethical conundrum presented by the green economy highlights the need for a balanced approach to sustainable development. This article's ideas can serve as a starting point for mining firms, governments, and communities to work jointly to guarantee that the transition to a low-carbon economy is ethical and sustainable.

By prioritizing human rights and environmental conservation, we may establish a green economy that is more

259 just and equitable, to the benefit of both present and future generations.

¹The Ethical Dilemma of Green Economy: Examining the Human and Environmental Costs of Cobalt Mining in DRC







Figure 2: Figure 2 :



Figure 3: Figure 3 :



Figure 4: Figure 4 :

12 CONCLUSION

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