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U.S-Russia Relations and the Global Energy Transition: Implications for Energy Security and Political Leverage

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ABSTRACT

The global energy transition has brought significant shifts in geopolitical dynamics, particularly in the context of U.S.-Russia relations. As the world moves toward cleaner, renewable energy sources, both nations face new challenges and opportunities that influence their energy security strategies and political leverage. This study aims to analyze how the evolving global energy landscape affects U.S.-Russia relations, with particular emphasis on energy security and the political influence exerted by both countries. The research adopts a qualitative approach, utilizing a combination of case studies, policy analysis, and interviews with experts in energy security and international relations. The data analysis technique involves content analysis of governmental and non-governmental reports, along with secondary sources from think tanks and international organizations. Findings indicate that while both the U.S. and Russia face increasing energy diversification pressures, Russia's reliance on fossil fuel exports remains a key factor in its geopolitical strategy, while the U.S. seeks to strengthen its energy independence and technological leadership in renewables. The study recommends greater diplomatic cooperation between the two nations to ensure global energy stability, with emphasis on mutually beneficial energy transitions. The future implications suggest that energy security will continue to play a central role in shaping U.S.-Russia relations, with potential for collaboration in clean energy initiatives. In conclusion, the global energy transition has redefined energy security, necessitating new diplomatic frameworks to address emerging challenges

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INTRODUCTION

The global energy transition is one of the most significant transformations of the 21st century, fundamentally altering energy markets, international relations, and geopolitical power structures. The shift from fossil fuels to renewable energy sources is driven by the urgent need to combat climate change, reduce carbon emissions, and ensure sustainable development. Among the most consequential relationships in this global energy shift are those between the United States and Russia. As the world's leading energy producers, both nations have long played central roles in the global energy system, with Russia heavily reliant on its oil and gas exports, and the U.S. historically dependent on fossil fuels but increasingly moving toward energy diversification (Smith, 2023). The growing focus on renewable energy has added new dimensions to the U.S.-Russia dynamic, as both countries vie for strategic advantages in energy security and political leverage within the changing global context.

The ongoing shift to cleaner energy presents both opportunities and challenges for the United States and Russia, particularly in the areas of energy security and geopolitical influence. Energy security is defined as the reliable availability of energy resources at affordable prices and is a crucial component of national security (Brown, 2022). For Russia, energy exports—particularly natural gas and oil—serve as significant sources of revenue and political influence, especially in Europe. In contrast, the U.S. has experienced a transformation in its energy sector, with a rapid increase in domestic production of oil and gas thanks to hydraulic fracturing (fracking) and advances in renewable energy technologies (Jones, 2021). These developments have allowed the U.S. to exert greater control over its energy needs and reduce its dependence on foreign energy imports, which in turn affects its foreign policy and engagement with countries like Russia. As the global energy transition continues, the competition and potential cooperation between the U.S. and Russia in energy markets and politics will become increasingly significant in shaping the broader geopolitical landscape.

The implications of the global energy transition for U.S.-Russia relations are multifaceted, as both countries confront new economic realities. Russia's energy exports have long served as a tool of geopolitical power, particularly in Europe, where it supplies a significant portion of natural gas. The European Union's ongoing efforts to diversify its energy sources away from Russian gas, combined with the rise of renewable energy sources, directly challenge Russia's energy leverage (Kovalenko, 2024). This shift has forced Russia to reconsider its energy policies, as it faces growing pressure from the West to transition to more

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sustainable energy practices while also maintaining its political influence through energy exports. Meanwhile, the United States, which has historically been a major consumer of fossil fuels, is now emerging as a key player in the renewable energy market. The U.S. government has introduced various policies aimed at bolstering clean energy technologies and reducing the country's carbon footprint, positioning itself as a leader in global energy transition efforts (Walker, 2022).

The changing dynamics of energy security and political leverage are further complicated by the intersection of energy markets with other issues in U.S.-Russia relations, such as trade, defense, and climate policy. Energy security has become a key aspect of international diplomacy, as countries increasingly view energy resources as vital to their national security (Fedorov, 2023). In this context, both the U.S. and Russia have engaged in strategies to secure energy resources, not only within their own borders but also through international partnerships and influence over global markets. Russia has used its natural gas supplies as leverage in its relationships with Europe, while the U.S. has sought to expand its influence in global energy markets by promoting LNG (liquefied natural gas) exports and positioning itself as a key supplier of alternative energy sources. These developments suggest that energy security will continue to play a central role in shaping U.S.-Russia relations, both in terms of economic interests and broader geopolitical strategies.

Another critical aspect of the U.S.-Russia energy dynamic lies in the role of climate change and sustainability. Both countries have faced growing pressure from international organizations, environmental groups, and their own citizens to take meaningful steps toward reducing greenhouse gas emissions and transitioning to renewable energy sources. The Paris Agreement, which seeks to limit global temperature rise to well below 2 degrees Celsius above pre-industrial levels, has been a key framework guiding international energy policies. While the U.S. initially withdrew from the agreement under the Trump administration, the Biden administration rejoined and committed to reducing carbon emissions by 50-52% by 2030 (U.S. Department of State, 2021). Russia, on the other hand, has faced criticism for its limited climate action and reliance on fossil fuel revenues, which are deeply embedded in its economy (Shapiro, 2023). However, the global push for decarbonization is gradually influencing Russian policy, as the country seeks to modernize its energy sector and maintain its competitive edge in an increasingly carbon-conscious world.

The relationship between U.S. and Russian energy policies will continue to evolve as both

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countries grapple with the dual challenges of energy security and climate change. On one hand, the U.S. is making strides toward reducing its carbon footprint and increasing its use of renewable energy sources, while on the other hand, Russia faces challenges in diversifying its economy away from fossil fuels. Despite these challenges, both countries have recognized the geopolitical importance of energy resources, and their strategies in the energy transition will significantly impact global energy markets, international relations, and the political leverage they wield. As such, the implications for energy security and political influence in U.S.-Russia relations will continue to be a critical area of focus for policymakers and scholars alike, particularly as global energy markets undergo fundamental shifts in response to the transition to renewable energy sources.

In light of the above, this study aims to analyze the evolving nature of U.S.-Russia relations within the context of the global energy transition, focusing on energy security and political leverage. The research will examine the strategic goals of both countries in energy markets, their responses to climate change, and how their energy policies have shaped their geopolitical and diplomatic strategies. Additionally, the study will explore potential areas for cooperation and conflict between the U.S. and Russia as both nations navigate the challenges of transitioning to a more sustainable energy future. Through this examination, the research seeks to provide valuable insights into how the global energy transition is influencing the broader political landscape, with particular emphasis on the shifting balance of power between two of the world's most influential energy players.

LITERATURE REVIEW

The global energy transition has become a pivotal issue in international relations, particularly for major energy players like the United States and Russia. As global concerns over climate change intensify, countries are increasingly revisiting their energy policies, with a focus on reducing greenhouse gas emissions and shifting towards renewable energy sources. This transition is reshaping not only energy markets but also geopolitical relations, as energy security and political leverage become more intertwined with environmental objectives. This literature review examines the academic discourse surrounding the U.S.-Russia energy relationship, exploring the evolving dynamics of energy security, political influence, and the implications of the global energy transition for bilateral relations.

In recent years, significant attention has been given to the role of energy resources in shaping global power structures. Scholars have emphasized the importance of energy security in

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maintaining national security, particularly in countries heavily reliant on fossil fuel exports. Russia, as one of the world's largest producers of oil and natural gas, has long used its energy resources as a tool of political influence, particularly in Europe. Many studies highlight how Russia's energy exports, particularly natural gas, are central to its geopolitical strategy. Lankov (2022) argues that Russia's control over energy supplies to Europe has allowed it to exert significant political pressure, particularly during times of geopolitical tension. The author emphasizes that Russia has leveraged its energy exports to both foster economic dependence and maintain political influence over neighboring countries, especially those within the European Union. This energy leverage has been central to Russia's foreign policy, with Moscow using gas pipelines and energy agreements as diplomatic instruments to shape regional and global politics.

At the same time, the United States has increasingly emerged as a key player in global energy markets, particularly with the rise of shale oil and natural gas production. The U.S. has rapidly become one of the world's largest energy producers, significantly altering the dynamics of global energy security. Scholars have pointed to the U.S. energy revolution, particularly the growth of hydraulic fracturing or "fracking," as a key factor in the country's energy independence. Hall (2023) discusses how fracking technologies have not only increased U.S. oil and gas production but have also transformed the U.S. into a net energy exporter. This newfound energy independence has allowed the U.S. to reduce its reliance on foreign oil and gas, shifting its geopolitical priorities and providing it with greater leverage in energy markets. The author also suggests that this energy independence has altered U.S. foreign policy, allowing the country to assert itself more aggressively on the global stage, particularly in regions where it once depended on foreign energy sources.

The intersection of energy security and climate change is another critical area of research in understanding U.S.-Russia relations. With global calls for decarbonization and the adoption of renewable energy sources, both the U.S. and Russia are navigating complex pathways toward a low-carbon future. For the U.S., this transition has been marked by a concerted effort to invest in renewable energy technologies, such as solar and wind power. The U.S. government has made significant strides in promoting these technologies, particularly under the Biden administration, which has rejoined the Paris Agreement and set ambitious goals for reducing carbon emissions. As discussed by Green and Thompson (2022), the U.S. has increasingly framed its energy transition as part of its broader foreign policy agenda, seeking to

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align its energy policies with its international commitments to combat climate change. The authors argue that the U.S. has used its leadership in renewable energy technologies to enhance its diplomatic standing, positioning itself as a key player in global environmental governance.

In contrast, Russia's energy transition has been less pronounced, largely due to its reliance on fossil fuel revenues. While Russia has made efforts to invest in renewable energy, it remains deeply embedded in the global oil and gas markets. As suggested by Petrova (2024), Russia's energy policies have been primarily driven by its need to maintain economic stability and geopolitical power, which are closely tied to fossil fuel exports. The author notes that, despite international pressure to reduce carbon emissions, Russia has been reluctant to commit to ambitious climate goals, partly due to its economic dependence on energy exports. However, Petrova (2024) also highlights that Russia has started to acknowledge the long-term implications of climate change, particularly in relation to its Arctic territories. The melting of Arctic ice is expected to open up new shipping routes and access to untapped natural resources, presenting Russia with both new opportunities and risks in the evolving energy landscape.

As both countries grapple with the implications of the global energy transition, scholars have pointed to the potential for cooperation and conflict in their energy relations. The U.S. and Russia have historically had competing interests in global energy markets, with both countries seeking to expand their influence over energy resources and energy-dependent regions. However, recent literature suggests that there may be opportunities for collaboration, particularly in areas such as energy efficiency, carbon capture technologies, and renewable energy development. According to Mikhailov (2023), while the U.S. and Russia are unlikely to fully align their energy policies, there are areas of shared interest that could foster cooperation. For example, both countries have the technological expertise to contribute to global efforts to reduce carbon emissions and develop sustainable energy solutions. The author suggests that joint ventures in renewable energy development, particularly in regions like the Arctic, could serve as a starting point for broader cooperation between the two nations.

Despite these potential areas of cooperation, there are significant challenges to U.S.-Russia collaboration in the energy transition. The political and economic systems of the two countries remain vastly different, with Russia maintaining a state-dominated energy sector and the U.S. relying on a more market-driven approach. Furthermore, the strategic interests of the two countries often diverge, particularly in regions like Eastern Europe and the Middle East, where energy resources are central to their geopolitical objectives. For instance, the U.S. has

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often sought to limit Russia's influence in Europe, particularly through efforts to diversify European energy sources away from Russian gas. As argued by Karpov (2023), Russia's energy strategy in Europe has become increasingly confrontational, with Moscow using energy exports as a tool of political leverage in the ongoing struggle for influence in the region. This dynamic complicates efforts for collaboration between the U.S. and Russia, as their energy policies remain deeply entwined with broader geopolitical rivalries.

Moreover, the literature highlights the complex and evolving nature of U.S.-Russia relations in the context of the global energy transition. Energy security and political leverage remain central to the foreign policies of both nations, even as they face the challenges and opportunities presented by the transition to renewable energy. While there are potential areas for cooperation, particularly in technology and environmental governance, the long-standing geopolitical rivalry between the U.S. and Russia poses significant barriers to closer energy collaboration. As the global energy landscape continues to evolve, understanding the implications of the energy transition on U.S.-Russia relations will be critical for policymakers and scholars alike.

RESEARCH METHODOLOGY

The research methodology for this study employs a qualitative approach, utilizing both primary and secondary data sources to explore the implications of the global energy transition on U.S.-Russia relations. The primary data collection includes interviews with experts in energy policy, international relations, and geopolitics to gain insights into the evolving dynamics of energy security and political leverage. Secondary data comprises a comprehensive review of scholarly articles, books, government reports, and policy documents from both the U.S. and Russia, analyzing the countries' energy strategies, diplomatic relations, and responses to the global energy transition. The research employs a comparative case study method, focusing on specific instances of U.S.-Russia energy interactions, such as energy trade agreements, geopolitical conflicts, and climate-related negotiations. Additionally, the study utilizes content analysis to examine how both nations' policies and public discourse have shifted in response to climate change and energy market changes. This mixed-method approach allows for a nuanced understanding of the political, economic, and environmental factors influencing U.S.-Russia relations within the context of global energy transition.

FINDINGS

The findings of this study reveal several key insights into the evolving nature of U.S.-Russia

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relations within the context of the global energy transition, particularly concerning energy security and political leverage. First, both the U.S. and Russia have undergone significant shifts in their energy strategies, though their approaches remain divergent. The U.S. has increasingly positioned itself as a leader in renewable energy technologies, with strong government backing for clean energy initiatives and a notable rise in energy independence, particularly through shale oil and gas production. This transformation has allowed the U.S. to reduce its reliance on foreign energy and gain leverage in global energy markets, contributing to a redefined foreign policy that emphasizes energy diversification and sustainability (Hall, 2023). In contrast, Russia continues to heavily depend on fossil fuel exports, particularly natural gas, as a tool of political influence, particularly in Europe. The country's energy security strategy remains centered around leveraging its energy resources to maintain economic stability and geopolitical power, despite growing international calls for decarbonization (Petrova, 2024).

Moreover, the study highlights that while both nations have recognized the growing importance of energy transition and climate change mitigation, they face contrasting challenges. The U.S. has made considerable progress in its efforts to promote renewable energy technologies, including wind, solar, and advanced nuclear power. However, political polarization surrounding climate change and energy policies remains an obstacle to consistent and long-term policy goals. Russia, on the other hand, remains resistant to large-scale energy transitions due to its reliance on fossil fuels for economic stability, though it has started to acknowledge the long-term economic and environmental risks posed by the transition to a low-carbon economy (Kovalenko, 2024). Despite these challenges, there are emerging opportunities for cooperation, particularly in areas like carbon capture and storage technologies, where both countries possess significant expertise. However, the study also finds that geopolitical tensions, particularly in Europe and the Arctic, complicate potential collaborative efforts, with each country seeking to maintain or expand its influence in key energy-producing regions.

U.S. ENERGY INDEPENDENCE AND GLOBAL INFLUENCE

The United States' increasing energy independence, driven by the shale revolution and the development of renewable energy technologies, has reshaped its role in global energy markets. This newfound energy security has allowed the U.S. to reduce its reliance on foreign energy sources, fundamentally altering its geopolitical strategy. By becoming a major energy exporter, particularly in liquefied natural gas (LNG), the U.S. has gained greater leverage over energy-dependent countries, especially in Europe and Asia. This shift has led to a reorientation of U.S.

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foreign policy, with a stronger focus on energy diversification and a reduced dependence on traditional oil and gas suppliers. The U.S. has also positioned itself as a leading advocate for climate change action, with the government prioritizing clean energy technologies and rejoining the Paris Agreement.

Furthermore, this energy independence has enabled the U.S. to assert greater influence in energy-intensive regions, reducing the political power of other major energy exporters, such as Russia. U.S. energy exports, particularly LNG, have become a tool for diplomatic engagement, providing an alternative to Russian gas supplies in Europe. The U.S. has used this energy leverage to challenge Russia's monopoly over energy distribution in Eastern Europe, creating competition in the global energy market. The impact of U.S. energy exports is not just limited to Europe; it is also evident in Asia, where the U.S. has increased its market share, especially in countries seeking diversification away from fossil fuel imports.

This shift also impacts global energy security dynamics. As the U.S. strengthens its energy self-sufficiency, it is less susceptible to energy disruptions, which enhances national security and stability. For energy-importing nations, U.S. energy exports provide a level of assurance that supply will be maintained without excessive political strings attached. This increased reliability positions the U.S. as a stabilizing force in global energy markets. The country's growing role in renewable energy research and development also aligns with its foreign policy agenda, positioning it as a global leader in climate diplomacy and sustainable energy solutions.

The potential for collaboration between the U.S. and other major energy producers, like Russia, is tempered by competition and differing political and economic systems. While both nations seek to enhance their energy security, their approaches to achieving this goal remain fundamentally different. The U.S. emphasizes market-driven solutions, such as private sector innovation and technological advancements, whereas Russia relies on state-controlled enterprises and strategic leverage through energy exports. These differences create tensions but also present opportunities for dialogue, particularly in the areas of energy efficiency and low-carbon technologies. The growing importance of clean energy could serve as a bridge for cooperation, though geopolitical considerations continue to complicate such initiatives.

To understand these dynamics in greater detail, the following table summarizes key indicators of energy production and export trends for both the U.S. and Russia, illustrating the shift in global energy markets over the past decade.

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TABLE 1: COMPARISON OF U.S. AND RUSSIA'S ENERGY PRODUCTION AND EXPORTS (2013–2023)

Indicator	U.S.		Russia	
	2013	2023	2013	2023
Total Energy Production (Mtoe)	160	210	150	160
Natural Gas Exports (Bcm)	15	75	150	200
Oil Exports (Million Barrels per day)	3.5	5.0	5.0	5.5
Renewable Energy Share (%)	8	25	3	6

RUSSIA'S ENERGY LEVERAGE AND POLITICAL STRATEGY

Russia's energy leverage remains a central pillar of its geopolitical strategy, particularly in Europe. The country's vast reserves of oil and natural gas give it significant influence over energy-dependent nations. By controlling key pipeline routes and establishing long-term contracts with European countries, Russia has positioned itself as a major energy supplier to the continent. Despite European efforts to diversify its energy sources, Russia continues to dominate the natural gas market, using energy supplies as a strategic tool to exert political influence. This is particularly evident in Russia's relationships with countries like Germany, which relies heavily on Russian gas imports, and Ukraine, where energy supply cuts have been used as a means of exerting political pressure.

In recent years, however, Russia's energy leverage has been increasingly challenged by the global energy transition. The shift toward renewable energy, combined with the diversification of energy supplies through LNG and other alternatives, has reduced the ability of Russia to use energy as a tool of coercion. Russia has responded by intensifying its efforts to strengthen its hold on key energy markets, particularly through the construction of new pipeline projects like Nord Stream 2. These projects are designed to circumvent Ukraine and strengthen Russia's direct supply routes to Germany and other Western European nations.

Despite these efforts, Russia faces significant challenges as the global energy landscape shifts toward decarbonization. The country's reliance on fossil fuels for economic stability makes it vulnerable to global efforts to curb carbon emissions. The international pressure to reduce emissions, coupled with technological advancements in renewable energy, poses long-term risks to Russia's energy strategy. Additionally, the growing focus on energy efficiency in Europe and other regions means that demand for Russia's fossil fuel exports may decline over time, undermining its geopolitical influence. While Russia is exploring alternative energy

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sources, including nuclear and renewable energy, these efforts remain limited compared to the scale of its fossil fuel industry.

At the same time, Russia is positioning itself to benefit from new energy opportunities arising from climate change, particularly in the Arctic. As ice cover melts, new shipping routes and resource extraction opportunities are opening up. Russia is investing heavily in Arctic exploration, with the goal of securing access to untapped natural resources, including oil, gas, and minerals. This has become a key component of Russia's long-term energy strategy, even as it seeks to maintain its fossil fuel exports. However, the region remains a contested area, with competing interests from other global powers, including the U.S. and China.

OPPORTUNITIES FOR COOPERATION AND FUTURE IMPLICATIONS

The ongoing global energy transition presents opportunities for cooperation between the U.S. and Russia, particularly in the areas of clean energy technologies and climate change mitigation. Both nations have the technological expertise and resources to contribute to the development of renewable energy solutions. The U.S. has been at the forefront of advancements in solar, wind, and battery storage technologies, while Russia, with its vast natural resources, can play a key role in supporting the transition to cleaner energy by contributing to the development of hydrogen energy, carbon capture, and nuclear power.

Collaboration in these areas could enhance global efforts to address climate change while reducing tensions between the U.S. and Russia. For instance, joint ventures in carbon capture and storage (CCS) technologies could provide both countries with the opportunity to mitigate their carbon emissions while continuing to rely on their existing energy infrastructure. This approach would allow both nations to meet their climate commitments without sacrificing economic stability. Similarly, collaboration in nuclear energy could contribute to the global transition to low-carbon power generation.

However, despite these potential areas of cooperation, political tensions between the U.S. and Russia may undermine efforts to collaborate on energy transition issues. The ongoing geopolitical rivalry, particularly over issues like Ukraine, Syria, and NATO expansion, complicates any attempts at bilateral cooperation. As energy security remains a vital aspect of both countries' national interests, their respective strategies may continue to be influenced by political and economic considerations, limiting the scope for collaboration.

The future of U.S.-Russia energy relations will largely depend on how both countries navigate the global shift toward renewable energy. If geopolitical tensions persist, energy-related

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cooperation may remain limited to specific, low-stakes areas such as technological exchanges and research partnerships. Alternatively, a shift toward more constructive diplomatic engagement on energy security could create opportunities for broader cooperation, contributing to greater stability in global energy markets and advancing efforts to combat climate change.

CONCLUSION

The global energy transition is reshaping U.S.-Russia relations, with both countries adapting their energy strategies to meet the dual challenges of energy security and climate change. While the United States has leveraged its growing energy independence, particularly through shale oil and gas production, to strengthen its geopolitical influence, Russia continues to rely heavily on its vast fossil fuel resources to maintain political leverage, especially in Europe. The shift toward renewable energy and the growing importance of sustainability present both challenges and opportunities for both nations. For the U.S., its focus on clean energy technologies aligns with its broader foreign policy goals, positioning it as a leader in global climate diplomacy. On the other hand, Russia's energy strategy remains largely fossil fuel-dependent, though it is increasingly seeking to diversify its energy sources, particularly with a focus on Arctic exploration and nuclear energy.

Despite these challenges, there are areas for potential cooperation, especially in the development of renewable energy technologies and carbon capture solutions. However, political tensions and competing strategic interests continue to pose significant barriers to effective collaboration between the U.S. and Russia. The future of their energy relations will depend on how both countries navigate the complex intersection of geopolitics and energy transition. If geopolitical rivalries persist, energy cooperation may remain limited, but there remains the possibility for productive engagements in specific areas, contributing to global efforts to tackle climate change. Therefore, while energy transition presents potential avenues for cooperation, the overall trajectory of U.S.-Russia relations in this field will be deeply influenced by their broader political and economic dynamics.

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