

FRAMING WATER SUSTAINABILITY AND TECHNOLOGICAL SOLUTIONS: A MICROSTRUCTURAL ANALYSIS OF RHETORICAL STRATEGIES IN ELON MUSK'S 2024 WORLD WATER FORUM SPEECH

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Abstract

This study provides a detailed microstructural analysis of Elon Musk's 2024 World Water Forum speech, focusing on his use of rhetorical strategies to address critical water sustainability challenges and advocate for technological solutions. By analyzing Musk's language, tone, and framing techniques, this research uncovers how he skillfully crafts a narrative that combines urgency with optimism, positioning technology as an essential tool for addressing water scarcity. Key findings reveal that Musk employs hyperbole to magnify technology's potential impact, metaphors to simplify complex concepts, and rhetorical questions to engage his audience in critical reflection. Additionally, he uses repetition to emphasize core themes, reinforcing his message on the importance of collaboration across sectors. The study concludes that Musk's rhetorical approach is not only informative but also mobilizing, as it seeks to inspire both public and private stakeholders to take active roles in sustainable water management. This research underscores the power of strategic rhetoric in advancing discourse on sustainability and encouraging actionable solutions.

Keywords: *Elon Musk; rhetorical strategies; technological solutions; water sustainability*

1. Introduction

Discourse analysis is a multifaceted field that investigates how language shapes texts and contexts, drawing on disciplines like linguistics, sociology, anthropology, and psychology. It focuses on the role of language in constructing and reflecting social realities. As Fairclough (1995) explains, the function of texts cannot be understood without considering the social contexts in which they are produced and interpreted. Through discourse analysis, researchers uncover underlying social norms, power dynamics, and cultural practices that influence communication, providing insights into how language both shapes and is shaped by the social structures it operates within.

However, traditional discourse analysis often lacks the critical depth needed to explore how language can reinforce or challenge social inequalities. This is where Critical Discourse Analysis (CDA) plays a key role, moving beyond a descriptive focus

to critically engage with how language perpetuates power imbalances and ideological structures. According to Van Dijk (1993, as cited in Rovino et al., 2021), CDA allows us to see how texts connect to social contexts and social cognition, particularly in relation to power, dominance, and inequality. Van Dijk's (2001, as cited in Prasetyoaji, 2020) framework, which this study employs, is particularly useful in analyzing how influential figures, like Elon Musk, use discourse to shape public opinion and frame complex social issues in ways that reflect their ideological positions.

Van Dijk's Critical Discourse Analysis model emphasizes the relationship between language and power, particularly through microstructural elements in discourse. Microstructures refer to the local, detailed features of discourse, such as word choices, sentence structures, and rhetorical devices, which together create meaning and shape the audience's perception. Van Dijk (2008) highlights that rhetorical strategies like metaphor, hyperbole, rhetorical questions, and alliteration are not merely stylistic embellishments; they are tools that serve to frame issues, influence public perception, and reinforce ideologies. These micro-level elements are essential in understanding how language is strategically used to guide audience interpretation, shape cognitive models, and ultimately construct social realities.

In the context of global environmental discourse, figures like Elon Musk play a pivotal role in shaping public and policy narratives around sustainability, particularly through a technological lens. Musk's position as an influential entrepreneur in technology and sustainability uniquely positions his rhetoric as a powerful force in shaping audience attitudes and framing technology as an essential solution to environmental challenges. His speech at the 10th World Water Forum—a key event in addressing urgent global water issues—reflects not only his personal and corporate interests but also his significant influence in steering public and political attention toward technological solutions in environmental contexts.

This research aims to analyze how Musk employs microstructural elements in his discourse to frame water sustainability as a challenge best addressed through technological means. By critically examining Musk's rhetorical strategies, this study seeks to reveal the ideological underpinnings that present technology as central to resolving environmental issues, illustrating how such discourse shapes public understanding of complex global problems and the role of innovation in solving them. The core research question of this study is: How does Elon Musk use rhetorical strategies to frame the issues of water sustainability and technological solutions in his speech at the World Water Forum 2024? Specifically, the objectives are to analyze the linguistic strategies Musk employs at the micro structural level, investigate how these strategies influence public perception, and explore the broader implications for policy discussions on water sustainability and innovation. In doing so, this research contributes to the field of environmental discourse analysis, offering insights into the power of rhetoric in framing sustainability issues and driving the public narrative on technology's role in global problem-solving.

2. Literature Review

Recent studies in the field of Critical Discourse Analysis (CDA) have significantly expanded our understanding of how language shapes social realities and power dynamics, particularly in political and public contexts. For instance, research by Umam and Laili (2023) explores rhetorical devices in Joe Biden's inauguration speech, revealing how various strategies like metaphor and parallelism are employed to convey

implicit meanings and engage the audience. Similarly, Nikmah (2021) investigates rhetorical language in speech contests, highlighting the use of metaphors and rhetorical questions as tools for captivating listeners. Further, recent work by Mulya, Sumarsih, and Dirgeyasa (2024) examines media rhetoric in environmental issues, showing how headlines often use persuasive techniques to position sustainability as a pressing concern, thus shaping reader perceptions of urgency in environmental communication. Studies like these underscore the importance of rhetorical strategies in influencing public perception, particularly by showcasing how effectively crafted discourse can resonate with audiences and shape environmental and technological narratives. Incorporating these perspectives highlights how Musk's language aligns with broader discourse practices in sustainability and innovation, situating his speech within a dynamic global conversation.

Building on the classical roots of rhetoric, rhetoric has long been viewed as the art of persuasive public discourse. According to traditional theories dating back to Antiquity, rhetorical strategies (also referred to as *figurae*) serve not only stylistic functions but also enhance the overall coherence and persuasiveness of discourse. Repetition, inversion, and other rhetorical figures contribute to these persuasive effects by structuring discourse in ways that are predictable yet impactful, thereby shaping audience expectations and responses. This aspect of rhetoric is crucial to van Dijk's analysis, as it links linguistic style directly to the strategic goals of the speaker. By applying this classical understanding to modern discourse, it becomes clear that Musk's speech employs rhetorical devices to create a cohesive narrative that positions technology as the primary solution to environmental challenges, resonating with both public and policy-oriented audiences.

The theoretical underpinning of this research draws from Teun A. van Dijk's approach to discourse, particularly his focus on microstructures—the local and detailed features of discourse that include word choices, sentence structures, and rhetorical devices. Van Dijk (2008) argues that rhetorical strategies such as metaphor, metonymy, and alliteration are not mere stylistic embellishments but play critical roles in constructing and reinforcing social meaning. This is particularly relevant to Musk's speech, where rhetorical strategies serve to simplify complex environmental issues and frame technology as a transformative solution. Studies by Rovino, Afifah, and Wardani (2021) further illustrate this dynamic, examining fear rhetoric in COVID-19 news and revealing how language can strategically influence public behaviour toward compliance and support for government policies. Such findings are instrumental for this analysis, as they demonstrate how rhetorical choices guide audience interpretation and align their cognitive perceptions with the speaker's viewpoint.

Despite these valuable contributions, there remain notable limitations in existing research. Many studies focus primarily on the linguistic features of discourse without fully addressing the broader social and political contexts in which these discourses are situated. For instance, Hanim (2016) analyzes rhetorical devices in political speeches, yet the implications of these devices on social power structures and public policy remain underexplored. Much of the recent literature on sustainability rhetoric and technological framing centers on specific case studies, which may limit the generalizability of findings across different contexts or speakers. As a result, there is a need for comprehensive analyses that not only dissect the linguistic elements of discourse but also critically engage with the socio-political ramifications of that discourse.

In light of these gaps, this study aims to contribute to the body of knowledge by applying Van Dijk's CDA framework to Elon Musk's speech at the World Water Forum 2024. By focusing on the rhetorical strategies employed in this specific context, the research seeks to uncover the underlying power dynamics and ideological positions. Van Dijk's microstructure model will be instrumental in analyzing how Musk uses rhetorical strategies such as metaphor, rhetorical questions, and parallelism to frame the issues of water sustainability and technological solutions. The goal is to offer insights that not only deepen our understanding of Musk's influence but also enhance the theoretical and practical applications of CDA in contemporary discourse analysis.

3. Research Method

This study employs Van Dijk's Critical Discourse Analysis (CDA) framework to analyze Elon Musk's speech at the World Water Forum 2024, utilizing descriptive qualitative methods to delve into the critical analysis of discourse. The qualitative approach emphasizes understanding the quality, value, and meaning behind the linguistic choices made in the speech, allowing for a rich exploration of how language constructs social realities. This method focuses on deriving insights from the original data without resorting to numerical transformations, resulting in a narrative description that articulates the nuances of the discourse.

Data for this study is sourced primarily from the video of Musk's speech, obtained from the online platform Kompas.com. In line with Creswell's (2014) assertion that qualitative researchers collect data through document examination and observation, this study relies on document analysis to gather pertinent information. Therefore, the researcher is responsible for data collection in this study, ensuring a thorough and nuanced examination of the discourse. The data encompasses words, phrases, and sentences that can be categorized as rhetorical elements, providing a foundation for understanding how Musk's language shapes public discourse on water sustainability.

The choice to analyze Elon Musk's speech, specifically, is grounded in his unique influence as a globally recognized tech entrepreneur and public figure who often drives conversations on sustainability and technological innovation. Musk's rhetorical approach, particularly in environmental contexts, exemplifies a technological determinism that positions innovation as the primary solution to global issues. His speech at the World Water Forum offers a high-profile platform that impacts both public and policy perceptions of water sustainability and technology. Compared to other influential speeches on similar topics, Musk's discourse is distinct in its integration of corporate influence, global reach, and ideological framing of technology as a transformative tool. Therefore, his speech serves as an ideal case study for examining how rhetorical strategies in sustainability discourse can simultaneously inform public attitudes and potentially shape policy discussions.

The data collection process involves several key steps. Initially, the researcher will watch and analyze the video of Musk's speech to grasp its overarching themes and ideas. The full video is available at Kompas TV (2024). Following this, the full transcript of the speech will be obtained to facilitate a detailed examination, complemented by the video to capture non-verbal cues and the speaker's delivery style. The full transcript of Elon Musk's speech was obtained from the podcast episode titled 'Elon Musk's Speech on the 10th World Water Forum in Indonesia,' available at Spreaker (2024).

Data analysis will follow a structured approach, beginning with the identification and categorization of rhetorical devices, such as metaphor, alliteration, and rhetorical questions. This will be followed by a thorough textual analysis to identify key themes and patterns within the speech. The researcher will then analyze the purpose behind each rhetorical device, focusing on how Musk's language choices influence audience perceptions regarding water issues and proposed technological solutions. Additionally, the study will examine how Musk's discourse interacts with and reflects broader power structures and ideologies related to technology and sustainability. Finally, conclusions will be drawn regarding the rhetorical strategies utilized in Musk's speech, contributing to a deeper understanding of his influence on environmental discourse.

4. Findings and Discussion

The following section presents the findings, showing how these strategies make complex issues easier to understand and influence the audience's views on the role of technology. This analysis provides insights into the impact of Musk's language on shaping public perceptions of sustainability and innovation.

4.1 Findings

The analysis of Elon Musk's speech at the 10th World Water Forum identifies various rhetorical strategies used to shape the audience's understanding of water sustainability and the role of technology as a solution. Musk's language reflects a technological ideology that positions technology as the primary solution to global sustainability challenges. This ideology is evident in his use of rhetorical devices, particularly hyperbole and metaphor, which serve to elevate the status of technology in the minds of his audience.

Hyperbole as a Reflection of Technological Optimism: Musk frequently employs hyperbole to exaggerate the potential of technological solutions, aligning with his core belief that technology can solve even the most complex environmental problems. An example of this hyperbole is Musk's statement that "a small section of the Sahara could power all of Europe or the world." This assertion, though exaggerated, reflects Musk's technological optimism, suggesting that renewable energy technology, such as solar power, holds immense and untapped potential. By using hyperbole, Musk inspires the audience to see technology as an almost limitless resource capable of transforming society. This aligns with his ideology by reinforcing the perception that technological solutions are not only effective but essential for sustainable progress.

Metaphor as a Tool to Reframe Environmental Challenges: Musk also utilizes metaphor to frame complex environmental issues in accessible and compelling ways. For instance, in stating, "If aliens came here, they would name us water," he metaphorically emphasizes water's abundance and importance on Earth. This metaphor does more than illustrate water's value; it also subtly critiques humanity's mismanagement of this essential resource. Musk's choice of metaphor aligns with his technological ideology by positioning technology as a necessary intervention to address this oversight. By presenting Earth as synonymous with water, Musk urges the audience to view water sustainability through a lens of urgency and responsibility, achievable through technological advancements.

Detailed Examples of Rhetorical Devices

To illustrate these rhetorical strategies, the table below provides a breakdown of the rhetorical devices identified in Musk's speech, with specific examples illustrating each device’s rhetorical impact on the audience.

Rhetorical Devices	Example	Rhetorical Effect on Audience
Hyperbole	"A small section of the Sahara could power all of Europe"	Amplifies potential of technology, fostering optimism and urgency for large-scale solutions.
Metaphor	"If aliens came here, they would name us water"	Reframes audience’s view of water, emphasizing its centrality and critiquing resource neglect.
Rhetorical Questions	"What is the most important thing for solving the water crisis?"	Engages the audience in reflection, leading them towards technology as the solution.
Repetition	Frequent use of "water" and "solar power"	Reinforces central themes, ensuring the audience recalls these solutions as crucial.
Parallelism	"A great water future and a great sustainable energy future"	Creates a balanced view of interconnected issues, underscoring technology’s role in addressing both.
Irony	"We should call it Earth, but actually Earth is seventy percent water"	Critiques human oversight in resource management, highlighting the irony between Earth's name and its water-dominant composition.
Personification	Referring to Earth as “holding” resources vital to life	Enhances audience connection to environmental issues by giving Earth human-like qualities, which can inspire a protective response.
Alliteration	"Sustainable solutions for severe scarcity"	Adds rhythm and emphasis, making key phrases memorable and reinforcing their importance.

Table 4. Rhetorical Devices in Elon Musk’s Speech

Hyperbole was the most frequently used device, making up 20% of all rhetorical strategies. Musk often uses exaggeration to make big, bold claims that capture attention and make technological solutions seem not only possible but essential. For example, Musk’s statement that "a small section of the Sahara could power all of Europe or the world" serves to emphasize the potential of solar energy, presenting it as a solution so powerful that it could solve global energy challenges. This kind of hyperbole plays a key role in making the problem of water and energy sustainability seem solvable with the right technological approaches.

Metaphor made up 14% of the devices, allowing Musk to explain complex topics in simpler, more familiar terms. For instance, Musk’s statement, “If aliens came here, they would name us water,” illustrates the abundance of water on Earth and frames it as central to the planet’s identity. This metaphor shifts the audience’s perspective, helping them understand the importance of water while subtly criticizing humanity's poor management of this crucial resource.

Rhetorical questions accounted for 8% of the rhetorical devices. Musk uses these questions to engage his audience and make them think critically about the issues he presents. These questions often introduce a topic, drawing the audience into the discussion and encouraging them to reflect on solutions before Musk proposes his own. For instance, when Musk asks, "What is the most important thing for solving the water crisis?" he sets up the idea that technological innovations are the key to solving global challenges, guiding the audience toward his preferred solutions.

Repetition was used in 8% of the speech, with Musk repeating key concepts like "water" and "solar power" throughout his talk. This strategy ensures that these central ideas remain in the audience's mind, reinforcing their importance. Repetition helps the audience focus on the main themes of the speech and understand that technology, particularly solar power, is the solution Musk is advocating for.

Parallelism was identified in 6% of the devices. Musk uses this device to create a sense of balance between different ideas. For example, in the phrase, "I think we've got a great water future ahead of us, and I think a great sustainable energy future ahead of us," Musk highlights the connection between solving water problems and energy issues. This parallel structure emphasizes that both challenges can be addressed simultaneously with technological solutions, positioning them as part of the same broader problem.

Other rhetorical devices like irony, alliteration, and personification also appeared in the speech. These devices helped Musk add variety and emphasis to his message, making the speech more engaging and ensuring that his points were clearly communicated.

4.2 Discussion

The rhetorical devices identified in Elon Musk's speech are not simply stylistic choices; they play a crucial role in shaping how the audience understands the challenges of water sustainability and the role of technology in addressing them. By using devices like hyperbole, metaphor, and rhetorical questions, Musk is able to simplify complex global issues, making them more relatable and easier to grasp for his audience.

Hyperbole: Amplifying the Role of Technology

Perrine (1969, as cited in Melly, 2022) describes hyperbole as a type of figurative language that exaggerates and can serve various purposes, such as humor, seriousness, or persuasion. In Musk's speech, hyperbole plays a crucial role in elevating the importance of technology in solving global challenges. For instance, when Musk claims, "A small section of the Sahara could power all of Europe or the world," he uses exaggeration to emphasize the vast potential of solar energy. Although technically overstated, this claim serves to make the problem of energy scarcity seem solvable through technological innovation.

Hyperbole functions as a motivational tool in Musk's speech, encouraging the audience to think big and believe in large-scale solutions. By exaggerating the potential impact of solar power, Musk pushes his audience to see technology not just as part of the solution, but as the central solution to the world's energy and water problems. This device works well in framing technology as a powerful force capable of reshaping the future.

Metaphor: Reframing Water and Energy Issues

Metaphors allow Musk to reframe how the audience thinks about water and energy. His statement, "If aliens came here, they would name us water," emphasizes the abundance of water on Earth, while also critiquing humanity's management of this vital resource. This metaphor shifts the audience's understanding, encouraging them to see water not just as a natural resource but as something central to Earth's identity. In line with modern linguistic theory, according to Lakoff & Johnson (1999, as cited in Sala-Suszyńska, 2016), metaphor is not merely a figure of speech but involves a deeper mental mapping, influencing how people think, reason, and imagine.

By framing Earth as "water" from an alien perspective, Musk challenges the audience to reconsider their attitudes toward water management. This metaphor suggests that water should be treated as a top priority, not just a secondary concern. In doing so, Musk encourages his audience to see water as essential to human survival and as something that must be protected through technological innovation.

Metaphors are also used to simplify complex scientific ideas. For example, by referring to the Earth as a "frozen dark ice bowl" without solar energy, Musk makes the importance of solar power easy to understand. These metaphors make scientific and environmental challenges more tangible for the audience, making it easier for them to grasp the urgency and the proposed solutions.

Rhetorical Questions: Engaging and Guiding the Audience

Musk's use of rhetorical questions helps to engage the audience and guide their thinking. By asking, "What is the most important thing for solving the water crisis?" Musk invites his audience to reflect on the complexity of the issue before presenting his own solutions. These questions are designed not to seek answers but to lead the audience toward Musk's vision of the future, which relies heavily on technological advancements.

Rhetorical questions also make the audience feel involved in the conversation. They create a dialogue between Musk and his listeners, making it seem as though the audience is actively participating in solving the problems being discussed. This engagement is crucial for keeping the audience invested in the message and for ensuring that they are more receptive to Musk's ideas.

Repetition: Reinforcing Key Messages

Repetition is used strategically in Musk's speech to reinforce key ideas. Words like "water" and "solar power" are repeated throughout the speech, ensuring that these themes remain central to the audience's understanding. By constantly returning to these core ideas, Musk ensures that his message stays clear and focused.

Repetition also helps to make the speech more memorable. By repeating important words and concepts, Musk increases the likelihood that his audience will retain the key points of his speech. This technique is particularly effective in speeches where the speaker wants to emphasize a few important ideas. For Musk, those ideas are the importance of water sustainability and the role of solar energy in solving global challenges.

Parallelism: Creating a Balanced Argument

Musk uses parallelism to show how interconnected the issues of water sustainability and energy solutions are. In the statement, "I think we've got a great water

future ahead of us, and I think a great sustainable energy future ahead of us,” he creates a balanced structure that links these two issues together. By doing this, Musk suggests that water and energy problems can be solved together, with technology as the common solution.

This balanced argument makes Musk’s message more persuasive, as it shows that the solutions to the world’s problems are not isolated but interconnected. By presenting water and energy as two sides of the same coin, Musk strengthens his argument that technology can solve both challenges simultaneously.

Other Devices: Adding Variety and Emphasis

Other rhetorical devices like irony, alliteration, and personification add variety and emphasis to Musk’s speech. Irony, for example, is used to critique human behavior, as seen in the statement, "We should call it Earth, but actually Earth is seventy percent water." This irony highlights the contradiction between the planet’s name and its actual composition, subtly criticizing how little attention humans pay to water management.

Alliteration and personification are used to make certain phrases stand out, making them more memorable for the audience. These devices help to add rhythm to the speech, ensuring that important points are emphasized and easier to recall.

By using these rhetorical strategies, Musk effectively frames water sustainability and technology as intertwined issues that can be solved with innovative solutions. His use of hyperbole and metaphor helps simplify complex ideas, while repetition and rhetorical questions ensure that his audience remains engaged and focused on his central message: that technology, particularly solar energy, is key to solving the world’s water and energy crises.

While this analysis highlights Musk’s rhetorical framing, it also invites a closer examination of the broader implications for policy-making. Musk’s portrayal of technology as the panacea for environmental challenges can influence policy-makers’ perceptions and decisions. By framing technology in such an optimistic light, Musk encourages a reliance on technological solutions over more systemic changes in behavior or policy. This perspective could lead to policies that prioritize funding for technological innovations while potentially neglecting necessary regulatory reforms or grassroots initiatives that address the root causes of water and energy crises. Expanding on how Musk’s rhetoric shapes policy discussions can enrich this article’s impact, highlighting the importance of critically assessing the narratives that drive public and political discourse around sustainability.

5. Conclusion

Musk’s rhetorical strategies effectively shaped audience perceptions of water and energy issues. Through hyperbole, he amplified technology’s potential; metaphors clarified complex ideas; rhetorical questions encouraged critical engagement; and repetition reinforced central themes. However, these findings should be considered with caution, as this analysis is based on a single speech and may not represent Musk’s broader communication style or the effectiveness of his strategies in other contexts. Additionally, the qualitative, interpretive approach used in this study introduces an element of subjectivity. Future research could examine a wider selection of Musk’s speeches or analyze how other influential figures use rhetorical strategies when discussing sustainability. Investigating how such rhetorical techniques influence audience opinions and whether they impact public policy decisions would also be

valuable. In summary, while Musk's speech illustrates the persuasive power of rhetorical strategies in framing sustainability discourse, more research is needed to understand their broader implications for public opinion and policy.

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