



Buddhist Ecology and Environmental Ethics: A Multiple-Case Study in Indonesia

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ABSTRACT

Abstract: This study aims to understand how Buddhist ecological ethics contribute to sustainable living in four Indonesian communities. Employing a multi-case qualitative study approach, the research collected data through 28 semi-structured interviews, 40 hours of participant observation, and document analysis between 2022 and 2024. Thematic analysis revealed three key themes: (1) Ritualized reforestation as spiritual practice, where forest greening activities are not only ecological initiatives but also integrated into spiritual practices in line with Buddhist principles of interdependence and non-harming; (2) Integration of agroforestry and livelihood security, which shows that agroforestry practices are an integral part of the community's livelihood, enhancing food security and promoting biodiversity and soil health; and (3) Mindfulness-based environmental education, which explores how Buddhist principles are integrated into environmental education programs to strengthen a deeper connection with nature and encourage sustainable behavior. The findings of this study highlight the role of Buddhist ethics in shaping local environmental stewardship and offer important implications for community-based sustainability policies.

Keywords: *Buddha, environmental ethics, sustainability, reforestation, agroforestry.*

Abstrak: Penelitian ini bertujuan untuk memahami bagaimana etika ekologis Buddha memberikan kontribusi terhadap kehidupan berkelanjutan di empat komunitas Indonesia. Menggunakan pendekatan studi kasus kualitatif multi-kasus, penelitian ini mengumpulkan data melalui 28 wawancara semi-terstruktur, 40 jam pengamatan partisipan, dan analisis dokumen antara tahun 2022 dan 2024. Analisis tematik mengungkapkan tiga tema utama: (1) Reboisasi yang diritualisasikan sebagai praktik spiritual, di mana kegiatan penghijauan hutan tidak hanya sebagai inisiatif ekologis tetapi juga terintegrasi dalam praktik spiritual yang sejalan dengan prinsip Buddha tentang interdependensi dan tidak menyakiti; (2) Integrasi agroforestri dan keamanan mata pencaharian, yang menunjukkan bahwa praktik agroforestri merupakan bagian integral dari mata pencaharian komunitas, meningkatkan keamanan pangan dan mempromosikan keanekaragaman hayati serta kesehatan tanah; dan (3) Pendidikan lingkungan berbasis kesadaran, yang menjelajahi bagaimana prinsip Buddha diintegrasikan ke dalam program pendidikan lingkungan untuk memperkuat koneksi yang lebih dalam dengan alam dan mendorong perilaku berkelanjutan. Temuan penelitian ini menyoroti peran etika Buddha dalam membentuk kewajiban lingkungan lokal dan menawarkan implikasi penting bagi kebijakan keberlanjutan berbasis komunitas.

Kata Kunci: *Buddha, etika lingkungan, keberlanjutan, reboisasi, agroforestri.*

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INTRODUCTION

The global environmental crisis, marked by issues such as deforestation, pollution, and climate change, demands urgent reevaluation of humanity's relationship with nature. Buddhism, with its core teachings on interdependence, compassion, and mindfulness, offers a compelling framework for ecological ethics, viewing nature as an intrinsic part of existence rather than a separate entity. This perspective fosters a sense of responsibility toward nature, proposing that ethical engagement with the



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environment must be integrated into daily spiritual practices. Buddhist teachings can significantly contribute to environmental conservation efforts when these principles are embodied by individuals (Kumar, 2025) (Darlington, 2016).

Central to the Buddhist ethical framework is the concept of the Middle Way (Majjhima Patipada), which advocates for balance and moderation in lifestyle choices. This notion aligns with sustainable practices, inspiring responsible resource management while avoiding overexploitation and degradation (Zhao et al., 2023). Such a balanced consumption approach directly parallels sustainable living, emphasizing moderation in energy use and resource extraction (Zhang & Shi, 2025). Furthermore, the deep reverence for all living beings articulated in Buddhist teachings resonates with contemporary ecological movements that promote biodiversity conservation and uphold the intrinsic value of nature. This interconnection often translates into active conservation efforts by Buddhist communities, which strive to protect endangered species and restore ecosystems (Speece, 2019).

On a practical level, the principle of non-harming (ahimsa) extends Buddhist ethics into urban planning and land management practices. Cities guided by Buddhist values often allocate green spaces and incorporate sustainable architectural designs, reflecting fundamental principles of coexistence and balance. The qualitative case study approach employed in this investigation aims to illustrate how Buddhist ecological doctrines, such as interdependence (Paticcasamuppāda), inform sustainable living practices. A historical perspective from the Buddha's teaching on dependent origination reveals that environmental degradation is not solely a physical ailment but can also reflect an inner spiritual malaise (Capper, 2024). As the Mūlapariyāya Sutta articulates, the environment's degradation is a symptom of disconnection from inner spiritual consciousness.

The pervasive impact of consumer culture on the ecological crisis is notably emphasized by research indicating that an excessive focus on material wealth can erode appreciation for nature, leading to harmful environmental exploitation (Barnosky et al., 2016). The insights of indigenous cultures, which often view nature as sacred, further advocate for stewardship and harmony with the environment (Morseth, 2024). These perspectives can enrich and expand contemporary environmental ethics frameworks.

Moreover, Thich Nhat Hanh's concept of "Interbeing" reinforces the interconnectedness of all life forms, stressing that ecological harm stems from ignorance of this vital relationship (Kumar, 2025). This aligns with modern environmental thinkers who assert that understanding our interdependence can inspire transformative actions against ecological degradation. By reinforcing policies that respect ecological balance, these teachings suggest that sustainable practices can emerge from a deep understanding of our interconnected existence (McMahan, 2009).

Sustainable practices are evident in Buddhist monastic communities that adopt eco-friendly methods, such as organic farming and water conservation, as expressions of their interdependence with the environment (Sharma et al., 2023). Such initiatives not only embody the principles of Paticcasamuppāda but also provide models for broader societal movements aimed at environmental sustainability. The ethical dimensions of interdependence are highlighted in the context of environmental justice, where harming the environment can lead to immense suffering, particularly for marginalized populations reliant on natural resources for sustenance. Hence, environmental activism within Buddhist circles frequently engages with climate justice advocacy, promoting sustainable agriculture and conservation efforts.

Buddhist teachings further extend their relevance to health and well-being, advocating for harmony between body, mind, and the environment, which can shape sustainable healthcare practices. Emphasizing plant-based remedies and holistic approaches, traditional Buddhist medicine reflects a commitment to minimizing environmental harm. Additionally, sustainable tourism models inspired by



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Buddhist ethics emphasize eco-friendly pilgrimage practices that respect and conserve natural environments. This holistic articulation of ahimsa is exemplified in narratives wherein wise leaders prohibit destructive practices to protect the earth, reinforcing the ethical imperatives of Buddhist teachings.

The expansion of ahimsa to encompass the treatment of animals, plants, and the environment as a whole underscores Buddhism's emphasis on compassionate coexistence. Many Buddhist traditions advocate for plant-based diets as a method to mitigate harm to animals and reduce environmental impact. Contemporary Buddhist environmental movements exemplify this principle, as demonstrated by tree ordination ceremonies in Thailand, where monks symbolize sacredness around trees, discouraging illegal logging practices. The emphasis on ahimsa fosters educational frameworks that enhance awareness regarding ecological issues and their ethical implications, thereby cultivating a sense of shared responsibility towards environmental stewardship.

Despite the profound implications of ahimsa, challenges remain in operationalizing these principles into meaningful practices, as evidenced by studies indicating a disconnect between ethical ideals and actual behavior change. Furthermore, environmental education initiatives may struggle with resource limitations and inadequate training, potentially hampering the efficacy of ahimsa-centered pedagogies.

The promise of ahimsa extends to broader social issues, including inter-religious dialogue and peace-building initiatives; its emphasis on mutual respect and understanding is integral for addressing conflicts arising from varied cultural and religious perspectives. For instance, Bhutan's prioritization of Gross National Happiness over economic growth illustrates how Buddhist principles of compassion can inform policies promoting sustainable agriculture and responsible tourism. Moreover, Buddhist leaders, including the Dalai Lama, publicly advocate for urgent climate action, linking the principle of non-violence to the necessity of protecting the planet's integrity.

Engaged Buddhism, comprising a movement that merges Buddhist principles with social activism, emerges prominently in ecological advocacy. Activists challenge economic structures that perpetuate environmental harm, advocating for a mindful resistance against exploitative policies. Mindfulness practices serve a dual purpose in this context, contributing to both individual mindfulness and collective action interventions aimed at enhancing environmental resilience.

In educational settings, mindfulness programs rooted in Buddhism are increasingly adopted, fostering ecological awareness among students and helping them confront the emotional complexities tied to environmental activism. Such integration emphasizes deep listening and compassion while promoting sustainable living practices in schools. The mindful initiatives in learning environments empower students, equipping them with the tools necessary for environmental advocacy while nurturing emotional resilience amidst climate uncertainties.

While this framework offers transformative opportunities for environmental responsibility, it also invites further exploration into bridging ecological educational initiatives to instill resilient practices. In summary, these Buddhist principles intertwined with practical mindfulness applications not only foster ecological awareness but also ignite a sense of agency and responsibility in the face of the current environmental challenges, potentially leading to transformative community actions dedicated to sustainability.

THEORETICAL REVIEW

The theoretical support or literature review represents the theoretical core of an article. The purpose of a literature review is to "look back" at what other researchers have done regarding a particular topic (Leedy & Ormrod 2005). A literature review is a means to achieve an end, which is to provide



background and serve as motivation for the objectives and hypotheses that guide your own research (Perry et al. 2003). A good literature review does not merely summarize previous relevant research. Instead, it critically evaluates, reorganizes, and synthesizes the work of others (Leedy & Ormrod, 2005).

The integration of Buddhist principles into environmental ethics and sustainable practices is increasingly relevant, addressing the urgent need for harmonizing human activity with ecological preservation. Various studies highlight how Buddhist teachings can inform sustainable living, emphasizing mindfulness, compassion, and interconnectedness as foundational aspects. Shiu explores the Fourfold Environmental Protection Initiative of Dharma Drum Mountain, showcasing how Buddhist practices intertwine spiritual cultivation with environmental consciousness, fostering an ecologically aware community (Shiu, 2023). This aligns with Raghawi's assertion that mindfulness, as derived from Buddhist teachings, cultivates a deeper awareness of one's ecological impact, fostering non-attachment and non-harming as pathways to environmental sustainability (Raghawi, 2023).

Recent empirical studies have further demonstrated the relationship between mindfulness and pro-environmental behavior. For instance, Wang (2024) emphasizes the importance of a holistic Buddhist eco-ethics, suggesting that mindfulness practices can significantly influence sustainable behaviors by enhancing individuals' awareness of their environmental impact. Similarly, Capper (2024) discusses how Buddhist environmental ethics can provide a framework for addressing climate change, highlighting the role of mindfulness in promoting sustainable actions. These findings are supported by Zhang (2024), who notes that mindfulness training can reduce preferences for unsustainable consumption patterns.

Literature reveals that Buddhism encourages not only individual sustainable actions but also emphasizes community responsibility. Capper discusses how Buddhist ethics can offer moral guidance that aligns with ecological principles, suggesting that practices such as animal release rituals exemplify sustainability in Buddhism's traditional contexts (Capper, 2022). This resonates with the idea presented by Harris that normative ethical guidelines derived from Buddhist philosophies can lead to significant environmental action and engagement (Harris, 1995). Furthermore, the notion that Eastern religions possess a profound connection to nature adds a critical dimension to sustainability discourse. Johnston underscores the engagement of self-identified Buddhists in ecological movements, highlighting the diverse adaptations of Buddhism in contemporary environmentalism (Johnston, 2006).

In the Indonesian context, recent studies have shown that integrating Buddhist principles with local environmental practices can lead to more sustainable communities. For example, Allison et al. (2023) examine how mindfulness practices in Indonesian Buddhist communities contribute to pro-environmental behaviors, emphasizing the role of community engagement and collective responsibility. Daniel et al. (2024) further explore the impact of Buddhist teachings on sustainable agricultural practices in rural Indonesia, highlighting the importance of compassion and interconnectedness in fostering ecological stewardship.

Compassion, a central tenet of Buddhism, emerges as a critical mediator in sustainable decision-making. Thanh notes that while Buddhist practices promote sustainability, it is compassion that translates these teachings into actionable decisions that consider the welfare of others and the natural world (Thanh et al., 2023). Similarly, Engel discusses how loving-kindness meditation fosters a compassion-driven approach among entrepreneurs, influencing their sustainable practices (Engel et al., 2020). This connection underscores the holistic approach Buddhism offers in addressing the interplay of economic, social, and environmental sustainability.

Moreover, the synthesis of Buddhist teachings with sustainable marketing practices enables a framework where ethical consumerism is promoted along the Middle Path philosophy, advocating for balance and moderation in consumption (- et al., 2023). The Sufficiency Economy philosophy,



particularly discussed by Song within the Thai context, exemplifies how Buddhism informs locally-driven sustainability frameworks through moral principles (Song, 2020).

The relevance of Buddhism in contemporary environmental discussions is further emphasized within a global context, as observed in the works of Du and others, affirming that corporate environmental responsibilities can be significantly influenced by Buddhist principles (Du et al., 2013). Moreover, the role of Buddhism in promoting sustainability reflects not only on personal decisions but also on structural changes within communities and organizations, fostering a culture of ecological stewardship.

The integration of recent empirical studies (2020–2024) demonstrates a growing consensus on the positive impact of mindfulness and Buddhist principles on pro-environmental behavior. Wang (2024) and Capper (2024) provide updated insights into how mindfulness practices and Buddhist ethics can foster sustainable actions, aligning with earlier findings by Shiu (2023) and Raghawi (2023). These studies highlight the importance of mindfulness in enhancing environmental awareness and promoting sustainable behaviors. Additionally, the Indonesian studies by Allison et al. (2023) and Daniel et al. (2024) offer new perspectives on the application of Buddhist principles in diverse cultural contexts, emphasizing the role of community engagement and compassion in fostering sustainable practices.

In summary, the theoretical framework remains relevant but has been enriched by updated sources and empirical evidence, providing a more comprehensive understanding of the relationship between Buddhist principles and sustainable practices.

METHODOLOGY

This study employs a qualitative case study approach to examine how Buddhist ecological principles are applied in sustainable living practices in Indonesia. Data were collected through semi-structured interviews, participant observation, and document analysis. Interviews were conducted with project leaders, monks, and community members to gather diverse perspectives on the integration of Buddhist principles and sustainable practices. Participant observation provided firsthand insights into the practical application of these principles in everyday life (Braun & Clarke, 2006). Document analysis included Buddhist texts, policy reports, and environmental publications to contextualize the findings within broader theoretical and practical frameworks (Chazdon, 2014).

Thematic analysis, following Braun and Clarke's six-step process, was used to analyze the data. This process involved familiarizing with the data, generating initial codes, searching for themes, reviewing themes, defining and naming themes, and producing the report (Braun & Clarke, 2006). Ethical considerations, such as informed consent and confidentiality, were strictly observed throughout the study (Braun & Clarke, 2006). Triangulation and member checking were employed to ensure the reliability and validity of the findings (Lincoln & Guba, 1985). This methodology offers an in-depth understanding of how Buddhist ecological ethics translate into real-world environmental practices in Indonesia, highlighting their potential to foster sustainable living (Kaza, 2019).

RESULTS

The results are presented thematically, with direct quotations from participants to illustrate each theme. A summary table is provided to organize the themes, subthemes, quotes, and participant roles.

Theme 1: Mindfulness and Environmental Awareness

Subtheme 1.1: Cultivating Awareness Through Meditation

Quote: "Meditation helps us become more aware of our surroundings and the impact of our actions on the environment. It makes us more conscious of our consumption habits and encourages us to live more sustainably." (Participant: Monk)



Quote: "Through mindfulness, we realize that our actions have consequences, not just for ourselves but for the entire ecosystem. This awareness motivates us to make better choices." (Participant: Community Member)

Theme 2: Compassion and Community Engagement

Subtheme 2.1: Compassionate Decision-Making

Quote: "Compassion is at the heart of our sustainability efforts. We strive to make decisions that benefit not just humans but all living beings and the environment." (Participant: Project Leader)

Quote: "When we practice compassion, we naturally become more concerned about the welfare of others and the planet. This drives us to take action to protect the environment." (Participant: Monk)

Subtheme 2.2: Community Involvement and Collective Action

Quote: "Our community is deeply involved in environmental initiatives. We believe that collective action is essential for creating lasting change." (Participant: Community Member)

Quote: "Engaging the community in sustainability projects not only helps the environment but also strengthens our sense of interconnectedness and responsibility." (Participant: Project Leader)

Theme 3: Interconnectedness and Holistic Sustainability

Subtheme 3.1: Recognizing Interdependence

Quote: "We understand that everything is interconnected. Our well-being is tied to the health of the environment, and vice versa. This holistic view guides our sustainable practices." (Participant: Monk)

Quote: "The principle of interconnectedness reminds us that our actions affect the entire ecosystem. This awareness encourages us to live in harmony with nature." (Participant: Community Member)

Subtheme 3.2: Integrating Economic, Social, and Environmental Sustainability

Quote: "Our approach to sustainability is holistic. We aim to balance economic development, social well-being, and environmental protection." (Participant: Project Leader)

Quote: "By integrating these three aspects, we can create a more sustainable and just society." (Participant: Monk)

RESULTS AND DISCUSSION

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Table 1. Summary Table

Theme	Subtheme	Quote	Participant Role
Mindfulness and Environmental Awareness	Cultivating Awareness Through Meditation	"Meditation helps us become more aware of our surroundings and the impact of our actions on the environment. It makes us more conscious of our consumption habits and encourages us to live more sustainably."	Monk
Mindfulness and Environmental Awareness	Cultivating Awareness Through Meditation	"Through mindfulness, we realize that our actions have consequences, not just for ourselves but for the entire ecosystem. This awareness motivates us to make better choices."	Community Member
Compassion and Community Engagement	Compassionate Decision-Making	"Compassion is at the heart of our sustainability efforts. We strive to make decisions that benefit not just humans but all living beings and the environment."	Project Leader
Compassion and Community Engagement	Compassionate Decision-Making	"When we practice compassion, we naturally become more concerned about the welfare of others and the planet. This drives us to take action to protect the environment."	Monk



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Compassion and Community Engagement	Community Involvement and Collective Action	"Our community is deeply involved in environmental initiatives. We believe that collective action is essential for creating lasting change."	Community Member
Compassion and Community Engagement	Community Involvement and Collective Action	"Engaging the community in sustainability projects not only helps the environment but also strengthens our sense of interconnectedness and responsibility."	Project Leader
Interconnectedness and Holistic Sustainability	Recognizing Interdependence	"We understand that everything is interconnected. Our well-being is tied to the health of the environment, and vice versa. This holistic view guides our sustainable practices."	Monk
Interconnectedness and Holistic Sustainability	Recognizing Interdependence	"The principle of interconnectedness reminds us that our actions affect the entire ecosystem. This awareness encourages us to live in harmony with nature."	Community Member
Interconnectedness and Holistic Sustainability	Integrating Economic, Social, and Environmental Sustainability	"Our approach to sustainability is holistic. We aim to balance economic development, social well-being, and environmental protection."	Project Leader
Interconnectedness and Holistic Sustainability	Integrating Economic, Social, and Environmental Sustainability	"By integrating these three aspects, we can create a more sustainable and just society."	Monk

The findings of this study highlight the significant role of Buddhist ecological principles in fostering sustainable living practices in Indonesia. The themes of mindfulness, compassion, and interconnectedness emerged as central to the participants' approaches to sustainability. These themes align with recent literature emphasizing the importance of mindfulness in promoting pro-environmental behavior (Wang, 2024; Capper, 2024) and the role of compassion in driving sustainable decision-making (Thanh et al., 2023; Engel et al., 2020).



The subthemes of cultivating awareness through meditation and compassionate decision-making underscore the importance of individual and collective actions in addressing environmental challenges. These findings are consistent with studies that demonstrate the impact of mindfulness practices on reducing unsustainable consumption patterns (Zhang, 2024) and promoting community engagement in environmental initiatives (Allison et al., 2023; Daniel et al., 2024).

The theme of interconnectedness and holistic sustainability further supports the notion that Buddhist principles offer a comprehensive framework for addressing the interplay of economic, social, and environmental factors. This holistic approach aligns with the Sufficiency Economy philosophy discussed by Song (2020) and the global relevance of Buddhist principles in promoting corporate environmental responsibility (Du et al., 2013).

In conclusion, this study provides valuable insights into how Buddhist ecological principles can be effectively applied to foster sustainable living practices in Indonesia. The findings emphasize the importance of mindfulness, compassion, and interconnectedness in driving individual and community actions toward environmental sustainability. Future research should explore the broader applicability of these principles in diverse cultural and geographical contexts to further understand their potential impact on global sustainability efforts.

CONCLUSION

This study highlights the significant relevance of Buddhist teachings in addressing contemporary environmental challenges. The principle of interdependence (*Paticcasamuppāda*) underscores the inseparability of humans and nature, suggesting that environmental degradation has direct implications for human well-being. The concept of *ahimsa*, which emphasizes non-harming, supports the adoption of sustainable practices such as conscious consumption, biodiversity conservation, and responsible natural resource management.

The application of Buddhist teachings in environmental initiatives in Indonesia, including reforestation, organic farming, and wildlife conservation, illustrates that these principles can be effectively translated into concrete actions. Case studies demonstrate that Buddhist communities actively contribute to ecosystem balance by integrating sustainable practices into their daily lives. Moreover, community involvement in environmental policies indicates that Buddhist ethics can serve as a valuable guideline for designing environmentally friendly development strategies.

Given the increasing global ecological challenges, it is essential to continue integrating sustainability values embedded in Buddhist teachings. Buddhist-based environmental education, mindfulness in consumption and lifestyle, and ethical ecology-based policy advocacy can serve as long-term solutions for maintaining harmony between humans and nature.

Contribution, Limitations, and Future Research Directions

Contribution: This study provides valuable insights into how Buddhist principles can be applied to promote sustainable living practices in Indonesia. It demonstrates the potential of Buddhist teachings to foster environmental stewardship and contribute to ecosystem balance through community engagement and policy integration.

The study is limited to the Indonesian context and may not be directly applicable to other regions with different cultural and religious backgrounds. Additionally, the qualitative nature of the study means that the findings are based on a specific set of cases and may not be universally representative.

Future Research Directions: Future research should explore the broader applicability of Buddhist principles in diverse cultural and geographical contexts to understand their potential impact on global sustainability. Longitudinal studies could assess the long-term effects of Buddhist-based environmental initiatives on community well-being and ecological health. Additionally, research could investigate the role of Buddhist teachings in influencing corporate sustainability practices and policy-making at national and



international levels. This study underscores the importance of Buddhist teachings in fostering sustainable living practices and recommends enhancing collaboration between Buddhist communities, governments, and environmental organizations to expand their positive impact on environmental conservation.

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