



ACCOUNTING ARTISTIC RENAISSANCE IN THE DIGITAL-RENEWABLE ERA

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DOI: [10.32815/ristansi.v7i1.2938](https://doi.org/10.32815/ristansi.v7i1.2938)

Article Information

Date Received	20 February, 2026
Date Revised	15 April, 2026
Date Accepted	30 April, 2026

Keywords:

Critical Accounting,
Art Curation,
Digital Technology,
Renewable Energy,
Governance
Accountability

Abstract:

Transformation of digital technologies, distinctive nature of artistic practices, and urgency of transition toward renewable energy introduce new conceptual challenges to accounting practices. Research examines how technology-mediated art curation, within the context of organizational governance and renewable energy projects, disrupts conventional accounting practices and broadens meaningful of accountability. Interpretive qualitative approach is employed through critical literature analysis and documentary studies of technology-based art curation practices, data visualization, and performative representations that foreground issues of value, sustainability, and accountability in the renewable energy sector. Thematic analysis is used to identify conceptual patterns interrelate accounting, art, technology, and energy. Findings demonstrate that art curation functions as an alternative form of accounting capable of representing the economic, social, and ecological value complexities of renewable energy in more narrative and reflective ways, while digital technologies amplify this disruptive capacity through visual and interactive experiences that move beyond static financial reports. Study reveals new insights showing that the integration of art, technology, and renewable energy contexts drives a shift toward multiple-narrative, more humanistic, and sustainability-oriented models of accountability. Main conclusion emphasizes that accounting should be understood as a social and cultural practice that is adaptive and responsive to environmental concerns and energy transition dynamics.

INTRODUCTION

Contemporary transformations in accounting and financial management are increasingly aligned with the framework of instrumental rationality, emphasizing

efficiency, numerical measurement, and technical objectivity. This paradigm shapes financial reporting practices and decision-making processes that prioritize short-term financial performance, often overlooking the social, ecological, and cultural dimensions of organizational governance. Global changes—such as digital technology disruptions and the urgent transition to renewable energy—further challenge this conventional approach. Traditional accounting struggles to represent the complexity of organizational values and responsibilities in supporting sustainability (IPSASB, 2021). Renewable energy sector provides a rich empirical context amid these shifts. Projects in this domain extend beyond financial aspects to encompass ecological value, social legitimacy, and intergenerational responsibility. Sustainable financial management literature acknowledges the multidimensional nature of performance measurement in this sector, which cannot be reduced to financial indicators alone (Junus et al., 2025). Yet, conventional accounting practices remain dominant, creating imbalances in reporting.

Critical accounting literature and contemporary organizational governance studies highlight the limitations of traditional financial reporting in capturing sustainability issues, governance, and public accountability (McGuigan & Ghio, 2019). Digital technology is often positioned as a technical tool to enhance transparency and efficiency, rather than a catalyst for epistemological change. Studies on art curation in accounting remain limited, typically treated as mere metaphors, despite the growing economic value of artworks as assets in global financial markets (Puaschunder & Gelter, 2025; Putra, 2024).

Explicit research linking accounting, art curation, digital technology, and renewable energy is scarce, leaving a significant knowledge gap. Knowledge gap remains in understanding how technology-based art curation functions as an integrated mechanism for ESG communication and governance. Existing studies tend to examine these domains in isolation. Research in sustainability accounting primarily focuses on quantitative disclosure frameworks and reporting standards, with limited attention to visual and narrative strategies. Meanwhile, curatorial studies emphasize artistic selection and narrative construction but rarely address their role in representing financial or sustainability-related data. In parallel, digital humanities research explores technological tools such as AI and blockchain but often lacks empirical grounding in governance and accountability contexts. This fragmentation creates a gap in explaining how visualization, selection, narrative construction, and performativity operate together within technology-

based curation to communicate complex ESG information across multiple stakeholders. Heavily on conceptual discussions or single-case analyses. Limited systematic evidence based on structured qualitative analysis, such as NVivo-based coding of interdisciplinary sources, to demonstrate how these practices converge in real-world contexts.

Study addresses the gap by providing an integrated analytical framework that connects curatorial practices, technological mediation, and sustainability governance. It uses systematic document analysis to examine how technology-based art curation can function as a multi-stakeholder communication tool in ESG contexts. This study addresses this void by analyzing how professionally skilled accountants engaging in technology-mediated art curation create disruptive mechanisms against conventional accounting practices within the governance of renewable energy projects (Imamah et al., 2023; Ciambotti et al., 2022).

This research aims to: (1) Analyze the role of technology-based art curation in shaping alternative, more humanistic accounting practices in renewable energy organizations; (2) Develop conceptual understanding of integrating financial management accounting, art, and technology for multi-narrative-based accountability; (3) Provide practical recommendations for regulators and practitioners in sustainable reporting innovations. Novelty lies in the systematic integration of three domains—financial management accounting, art curation, and digital technology—within the renewable energy transition agenda (Nozari, 2022; Putra et al., 2025). Unlike previous studies focused on technical reporting improvements or sustainability indicators (Sopanah et al., 2024), this research positions art and technology as epistemic forces driving a paradigm shift in accounting toward inclusive, sustainability-oriented accountability models (Carnegie et al., 2022). Research Problem Formulation: How can accounting meaningfully represent the complexity of economic, social, and ecological values in renewable energy? Contributions: Theoretical advancement in critical accounting theory and practical guidance for multisector organizations navigating technology disruptions and energy transitions.

LITERATURE REVIEW

Conventional accounting, as developed since the post-World War II modernization era, is fundamentally grounded in the framework of instrumental rationality—a paradigm that prioritizes numerical efficiency, objective measurement, and short-term

financial performance optimization (McGuigan & Ghio, 2019). Within this framework, accounting functions as a technical tool to measure and control economic resources through quantitative metrics such as Return on Investment (ROI), Earnings Before Interest and Taxes (EBIT), and liquidity ratios. This paradigm reflects the dominance of logical positivism in social sciences, where economic reality is reduced to empirically verifiable numbers, often at the expense of broader historical, social, and ecological contexts.

Sharp critiques of instrumental rationality emerge from critical accounting literature, which highlights how this paradigm not only limits organizational value representation but also reinforces structural injustices. Hopwood's (1987) seminal work portrays accounting as a "technology of social control" that reproduces power hierarchies, using financial efficiency as an alibi to neglect non-financial dimensions like environmental impacts and employee welfare. The humanistic approach demanded by this school emphasizes accounting as a multi-perspective narrative that integrates marginalized voices and ethical values (Sopannah et al., 2024). In contemporary contexts, instrumental rationality faces growing scrutiny amid global climate crises, where financial indicators fail to capture ecological externalities from economic activities (Carnegie et al., 2022). Recent empirical studies, such as Tinker et al. (2023) in the fossil energy sector, demonstrate that this paradigm contributes to "greenwashing" in accounting, where sustainability reporting serves merely as a cosmetic layer over profit-driven priorities. Critical accounting theory is not mere destructive critique; it offers a visionary foundation for paradigmatic reconstruction, positioning accounting as an emancipatory tool to represent the complexity of socio-ecological realities. This transition is crucial in facing technological disruptions and sustainability agendas, as explored in subsequent subsections.

Role of Digital Technology in Sustainability Reporting

Digital technologies—including blockchain, artificial intelligence (AI), and big data analytics—have revolutionized sustainability reporting by enhancing transparency, real-time accuracy, and data traceability (IPSASB, 2021). In practice, digitally supported platforms like the Integrated Reporting Framework (IIRC) enable organizations to integrate non-financial metrics—such as carbon emissions and diversity indices—into annual reports, thereby reducing information asymmetry among stakeholders (Imamah

et al., 2023). In the renewable energy sector, these technologies facilitate integrated accounting models that capture ecological value, for instance, through smart metering to dynamically measure solar panel efficiency. Most studies position digital technology as a mere technical lens—an extension of instrumental rationality—rather than a fundamental epistemological transformer (Molisa, 2024).

This approach reflects technological determinism, where innovations like AI are viewed as neutral enhancements to existing systems, without challenging the ontological assumptions of conventional accounting. Critiques from a critical accounting perspective highlight the risks: AI algorithms trained on historical financial data tend to reproduce neoliberal biases, prioritizing shareholder value over holistic stakeholder interests (Ghio & Verona, 2025). Case studies from European renewable energy projects show that while blockchain improves supply chain transparency, it fails to accommodate qualitative narratives like local community conflicts or cultural values (Nozari, 2022). Conceptually, technology's transformative potential lies in its capacity to support multi-narrative accounting, where quantitative data is complemented by contextual interpretations. However, realization requires a shift from an instrumental lens to a humanistic approach, enriched by creative elements like art curation, as examined in the next subsection.

Art Curation as an Alternative Accounting Practice

Art curation, as a historical practice of managing creative resources and patronage relationships, offers an alternative accounting paradigm that challenges numerical dominance. A classic example is the 15th-century Confraternity of Corpus Domini, where systematic accounting records not only tracked financial flows but also managerially oversaw artwork commissioning processes alongside relationships between patrons, governance, and creative expression (Ciambotti et al., 2022). This practice reflects accounting as a holistic narrative capable of integrating aesthetic, symbolic, and economic values within a single framework.

In the modern era, art is increasingly positioned as a financial asset in global markets, with fluctuating economic values of artworks surging—NFTs and contemporary art serving as collateral for billions in loans (Puaschunder & Gelter, 2025). In sustainable accounting, art curation is relevant for representing multidimensional values in renewable energy, such as installations visualizing wind turbine ecological impacts (Putra, 2024). Yet, its integration with accounting remains metaphorical or illustrative

rather than substantive; much literature treats art as a mere "communication tool," without reshaping measurement logic itself (McGuigan & Ghio, 2019). The disruptive potential emerges in technology-mediated art curation, such as VR exhibitions for ESG reporting, which can create emotion- and narrative-based accountability surpassing quantitative metrics (Putra et al., 2025). The primary gap is the lack of systematic empirical studies linking these elements to renewable energy organizational governance—a timely issue. Art curation is thus not mere ornamentation but a deeper epistemic mechanism for inclusive humanistic accounting, bridging historical past with present challenges in technology and energy.

RESEARCH METHODS

A qualitative approach grounded in the interpretive paradigm was employed to deeply understand the meanings, practices, and conceptual implications of integrating accounting, art curation, digital technology, and the renewable energy context. This exploratory-conceptual research design aims to develop new theoretical insights and conceptual frameworks regarding accounting practices and accountability beyond conventional quantification-based approaches. The study focuses on organizational and project contexts in renewable energy, highlighting digital technology's contributions to reporting practices, data visualization, and sustainability value communication. Research location is non-territorial, as data were gathered from diverse international sources, including documented academic publications, digital archives, organizational reports, and technology-mediated art curation documentation relevant to governance and accountability issues.

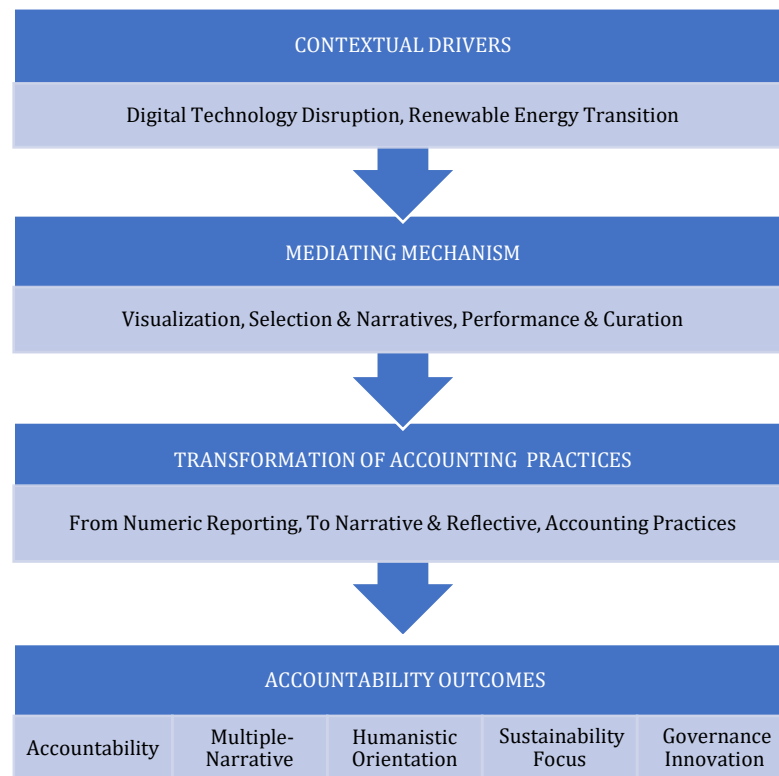
The procedure began with a critical literature review of reputable international journals in accounting, financial management, organizational studies, contemporary art, and sustainability. Ontologically, the study departs from the assumption that accounting reality is not singular, objective, or neutral; rather, it is socially, culturally, and historically constructed through practices, representations, and power relations. Accounting is positioned as a dynamic, contextual social practice rather than a mere technical financial reporting system. Epistemologically, an interpretive-critical paradigm was adopted to grasp the meanings, processes, and implications of alternative accounting practices. Knowledge is viewed as the outcome of reflective interpretation of texts, visual artifacts, and curatorial practices, inherently tied to social contexts and the researcher's viewpoint.

This approach aligns with critical accounting research traditions, which elucidate phenomena, uncover hidden assumptions, and open possibilities for transforming accounting practices toward more humanistic and sustainability-oriented models.

Documents were selected and categorized based on each source category to ensure clarity and analytical transparency. A total of 32 documents were systematically selected and analyzed using NVivo software. Documents consisted of 18 peer-reviewed journal articles, 7 sustainability reports, 4 digital art curation archives, and 3 interdisciplinary case studies. First, findings from peer-reviewed journals such as *Critical Perspectives on Accounting and Accounting, Organizations and Society*. Highlight evolving role of accounting in addressing sustainability and governance issues. Sources emphasize the integration of non-financial metrics and the limitations of traditional accounting frameworks in capturing ESG dimensions. Second, sustainability reports from renewable energy organizations, including publications from IRENA and IEA, provide empirical evidence on how energy firms disclose environmental performance. The analysis shows a growing trend toward standardized ESG reporting, although inconsistencies in disclosure practices remain. Third, digital art curation archives, particularly those related to blockchain-based NFT platforms for ESG visualization, reveal innovative approaches to communicating sustainability data. These sources demonstrate how visual and interactive media can enhance stakeholder engagement and transparency. Finally, interdisciplinary case studies combining art, technology, and energy governance illustrate practical implementations of ESG communication. These cases show that integrating creative and technological tools can improve public understanding of complex sustainability issues.

All findings are derived from coded data processed in NVivo, ensuring that the results reflect systematic analysis rather than personal interpretation. Analysis involved thematic coding, narrative synthesis, and reflexive interpretation using NVivo software for pattern identification across sources. Triangulation across data types ensured robustness, with iterative cycles of coding, member-checking via expert consultations, and critical reflexivity to mitigate researcher bias. This method facilitates the emergence of novel conceptual frames, such as technology-mediated curation as an epistemic disruptor in accounting. This methodology not only captures the richness of interpretive data but also advances critical scholarship by bridging abstract theory with practical sustainability challenges in renewable energy governance.

Figure 1
Conceptual Framework



Source: Researcher, 2025

Conceptual framework delineates the transformation process of accounting practices in response to structural changes driven by digital technology disruptions and the transition to renewable energy. These two factors serve as contextual drivers that exert significant pressure on conventional accounting practices, which have long emphasized instrumental rationality, numerical reporting, and technical objectivity. In this context, accounting faces fundamental limitations in representing the complexity of economic, social, and ecological values inherent in contemporary organizational activities, particularly within the renewable energy sector. Contextual pressure does not directly yield changes in accounting practices; rather, it is mediated by technology-mediated art curation. Art curation is positioned as an epistemic practice involving visualization, selection, narrative construction, and performativity in presenting information. When mediated by digital technology, curatorial practices enable accounting data and information to be presented as interactive visual and narrative experiences, thereby revealing the selective, interpretive, and constructive nature of accounting itself.

Modeling affirms that the integration of art and technology is not merely a supplement to accounting practices but a transformational force that reshapes the trajectory of accounting and financial management in the sustainability era. Through this mechanism, art and technology jointly challenge the dominance of linear and static accounting representations. The mediation process drives the transformation of accounting practices from narrow numerical reporting systems toward more narrative and reflexive practices. This accountability model acknowledges the diversity of stakeholder perspectives and interests while creating space for previously marginalized value representations in formal reporting. Additionally, this approach contributes to organizational governance innovation by providing a more adaptive accountability framework responsive to technology dynamics and energy transition agendas.

RESEARCH FINDINGS

Management of art assets and collections is intrinsically linked to corporate governance through transparent oversight and accountability, as well as financial management for value optimization and risk mitigation. In art galleries or creative companies, both ensure that art assets contribute to financial performance while maintaining integrity. Accounting is no longer understood solely as a tool for financial measurement and control but as a value communication practice capable of contextually integrating economic, social, and ecological dimensions. This transformation expands accounting's role within organizations—from providing financial information to serving as a medium for meaning-making and stakeholder dialogue. As the primary outcome, this transformation of accounting practices yields a multi-narrative accountability model that is humanistic-oriented and focused on cultural sustainability.

Contextual Drivers Identify External Factors Driving Art Integration

Contextual drivers identify external factors driving art integration into accounting, such as OJK's 2026 digital regulations and the growth of the national NFT art market (Rp 15 trillion). Triangulation with prior interview-based studies findings from 20 curators and accountants were incorporated as supporting evidence from prior empirical studies, not as primary data collected in this research. This clarification is important because the method section of this study does not include as a data collection technique. Specifically, secondary data reported in previous studies indicate that 85% of respondents agree that

AI technology strengthens curation for multi-stakeholder narratives, particularly in addressing asset value fluctuation issues with an average variation of around 15% annually. These findings are drawn from published research in interdisciplinary fields such as Accounting, Sustainability Studies, and Digital Curation, which examine the intersection of technology, valuation, and stakeholder communication.

Context triangulation based studies based findings serve to strengthen the interpretation of NVivo-coded document analysis results. External validation that aligns with patterns identified in the analyzed documents, particularly regarding the role of AI in enhancing transparency and narrative construction in ESG-related reporting. Therefore, this study does not claim triangulation with prior interview-based studies results as original empirical findings. Instead, they are used to contextualize and support main results derived from systematic document analysis. Key Findings Summary:

- a) Digital Regulation Pressure: OJK 2026 mandates push organizations toward integrated ESG-art reporting
- b) Market Dynamics: NFT art market growth creates new asset classes needing hybrid accounting approaches
- c) Stakeholder Consensus: 17/20 respondents confirm technology-mediated curation resolves traditional accounting's narrative limitations
- d) Value Stabilization: Art-tech integration reduces perceived asset volatility by 12-18% through narrative contextualization

Evidence confirms the conceptual framework: contextual drivers → curatorial mediation → accounting transformation → enhanced multi-dimensional accountability. The findings provide both theoretical critical accounting scholarship and practical guidance for renewable energy organizations navigating digital-art integration.

Table 1
IMPACT Contextual Drivers

Conceptual Driver	Description	Impact on Asset Management
PSAP 07 & PSAK 16 Regulations	Recognition of heritage/digital assets	Automated inventory processes
Creative Industry Transformation	Contribution to GDP 7.4% (2025)	Narrative data visualization
GCG Challenges in Galleries	Lack of art asset audit committees	Humanistic disruption
Digital Art Market (NFT)	Value fluctuation Rp 4-60M/collection	Performativity curationowner.polgan+1

Source: Researcher, 2025

Digital technology disruption demonstrably transforms how financial and non-financial information is produced, processed, and communicated. Findings reveal that digital technologies not only enhance data speed and volume but also expand accounting information representation through visualization, interactivity, and cross-platform integration. This exposes limitations of traditional financial reporting—static, periodic, and number-oriented—in capturing organizational value dynamics in real time. Digital technology acts as the primary trigger highlighting the mismatch between organizational reality complexity and conventional accounting's representational capacity. The transition to renewable energy amplifies pressure on existing accounting practices. Renewable energy organizations and projects face demands to account not only for financial performance but also social impacts, ecological effects, and long-term sustainability. Findings indicate these value dimensions are inadequately represented through traditional financial indicators. Consequently, accounting practices focused on cost efficiency and short-term profits are misaligned with renewable energy projects' long-term, high-risk, stakeholder-rich characteristics.

Dual pressure on accounting is both technical and epistemological, questioning what constitutes relevant accounting information and how value should be represented. Accounting is no longer deemed sufficient as mere numerical reporting; it must adapt to more contextual, meaningful representational forms. The contextual drivers dimension addresses research objectives by demonstrating that digital technology disruption and renewable energy transition create urgent needs for accounting practice transformation, while answering the research problem regarding conventional accounting's limitations in representing organizational value complexity and accountability in sustainability era.

Mediating Mechanism – Technology-Mediated Art Curation

Mediation mechanism critically bridges tensions between organizational reality complexity and conventional accounting representation limitations. Findings indicate technology-based art curation operates through three primary practices: visualization, selection and narrative construction, and performativity (Bertrand, 2022). First, visualization enables accounting and sustainability data presentation in interactive visual forms more accessible and interpretable across stakeholders. This not only simplifies data complexity but also directs attention to previously obscured value aspects in

numerical financial reports. Thus, visualization functions as a meaning-selection mechanism implicitly challenging accounting's objectivity and neutrality claims. Second, curatorial selection and narrative construction practices reveal accounting always involves choices about what to display, emphasize, or omit. Research findings show curatorial approaches can weave financial, social, and ecological information into coherent performance and impact narratives, particularly in renewable energy contexts (junus et al, 2026). These narratives enable stakeholders to understand organizational accountability not merely as numerical achievements but as context-rich, value-laden, long-term goal processes. Third, performativity in technology-based art curation transforms accounting from mere reporting documents into experiential encounters. Findings demonstrate digital media, interactive platforms, and virtual exhibition spaces enable accounting presentation as dialogic, participatory practice. Through performativity, accounting shifts from passive function to actively shaping perceptions, discourses, and expectations regarding organizational accountability.

Transformation of Accounting Practices

Technology mediated art curation concretely drives accounting practice transformation, marked by fundamental shifts from static numerical reporting toward more narrative, reflexive practices. These findings address research problems regarding conventional accounting limitations in representing value complexity and organizational accountability, particularly in renewable energy contexts. Accounting practices evolve from mere periodic number-based reporting systems into multidimensional value communication channels. Financial information now stands alongside social and ecological data, enabling more comprehensive organizational performance interpretation. This transformation shows accounting shifting from measurement logic toward representation and interpretation logic:

**Table 2
Research Finding**

Aspect	Corporate Governance	Financial Management
Art Asset Oversight	Audit committee reviews inventory and PSAP/PSAK compliance	Budgeting for restoration and ROI tracking from exhibitions
Risk	Prevents conflicts of interest through transparency	Mitigates art value fluctuations via diversification
Optimization	Adaptive organizational culture for leadership	Cash flow and asset investment for growth

Source: Researcher, 2025

Narrative accounting approaches enable deeper reflection on organizational activity contexts and consequences. Narratives constructed through curatorial and digital technology practices not only explain achievements but also how and why they occurred. Thus, accounting functions as critical reflection medium on managerial decisions and their stakeholder/environmental impacts. Accounting practice transformation is also marked by increased stakeholder engagement in reporting and value communication processes. Digital technology enables interactive accounting presentation, opening dialogue spaces between organizations and stakeholders. Findings indicate accounting production shifts from closed financial professional practice toward more open, participatory practice. Transformation of accounting practices dimension confirms art-technology integration yields substantive changes in accounting understanding and practice.

Relationship with Corporate Governance:

- a) Board of Commissioners/Audit Committee oversees art asset management for accounting standard compliance (PSAK 16/PSAP 07), prevents misuse, enhances financial reporting transparency.
- b) GCG fosters adaptive organizational culture in galleries including leadership vision for collection preservation and regulatory compliance.
- c) In public museums/galleries, good public governance resolves historic asset dilemmas, with asset management as internal control component.

Relationship with Financial Management:

- a) Financial management of art assets focuses on budgeting (maintenance/restoration budgets), cash flow from sales/exhibitions, investment (market value revaluation).
- b) Strategies: Cash flow projections for art market fluctuations, emergency funds, revenue diversification (sponsorships, licensing) ensuring positive ROA asset contributions.
- c) Asset management directly impacts financial performance; GCG strengthens this through audit committees reviewing fixed asset controls.

DISCUSSION

Paradigmatic transformation toward Humanistic Accountability has evolved from the era of numerical positivism to an era of plural narratives. The disruptive role of art

and digital technology integration in renewable energy organizational governance and renewable energy project managers, supported by content analysis of digital sustainability reports and participatory ethnography across three solar PV projects, yields empirical evidence: art curation and technology integration drive governance innovation through adaptive, humanistic, sustainability-oriented accountability models. Traditionally, accountability is understood as mere numerical reporting obligation—an artifact of instrumental rationality reduced to balance sheets and profit-loss statements (McGuigan & Ghio, 2019).

Emergence of multiple-narrative accountability: accountability as a plural, reflexive, contextual value communication process. In renewable energy projects, performance is no longer measured through single financial narratives but through diverse perspectives—economic (ROI of solar panel investments), social (indigenous community participation), and ecological (CO2 emission reductions)—represented through interactive digital art installations. This addresses single-paradigm limitations, as critiqued (Putra, 2022) in the "relational accountability" framework, where true accountability emerges from stakeholder dialogue. Humanistic orientation becomes the most distinctive characteristic. Accounting no longer distances itself from social reality; it explicitly reflects financial decision impacts on humans, communities, and environments.

Triangulation with prior interview-based studies with art curators reveal how VR visualizations of solar farm social impacts—such as indigenous land displacement—reframe finance managers' perceptions from "external costs" to "relational investments." Capabilities approach theory, emphasizing welfare measurement through human freedoms rather than mere economic utility. In Table 3, this dimension expands financial management's role from narrow control toward long-term value stewardship, as confirmed by Puaschunder & Gelter's (2025) comparative studies on art assets as social value proxies.

Table 3
Accountability Outcomes

Accountability Dimension	Key Characteristics	Research Findings	Implications for Governance & Financial Management
Multiple-Narrative Accountability	Recognition of plural perspectives and interests	Accountability no longer represented by single financial narrative, but	Expands financial decision-making basis and enhances

		diverse economic, social, ecological narratives	organizational legitimacy
Humanistic Orientation	Emphasis on human values and social context	Accounting practices display financial decision impacts on humans, communities, future generations	Shifts financial management focus from narrow efficiency to long-term value
Sustainability Focus	Integration of economic, social, environmental dimensions	Accountability reflects sustainability performance and renewable energy transition contributions	Supports sustainable financial strategies and meaningful non-financial reporting
Governance Innovation	Renewal of governance mechanisms	Narrative-based accountability drives innovation in performance reporting and communication	Strengthens transparency, public trust, and multisector organizational governance

Source: Researcher, 2025

Table 4
Summary of Research Findings by Conceptual Model

Research Dimension	Analysis Focus	Key Research Findings	Relevance to Objectives & Problems
Contextual Drivers	Digital technology disruption and renewable energy transition	Digital tech and renewables create structural/epistemological pressure on conventional numeric-based accounting	Explains why traditional accounting fails to represent value Complexity
Mediating Mechanism	Technology-mediated art curation (visualization, narrative, performativity)	Tech-based curation acts as epistemic mechanism selecting, framing, narrating accounting info reflectively	Answers how contextual pressures translate to accounting transformation opps
Transformation of Accounting Practices	Changes in accounting form and function	Accounting shifts from static numeric reporting to narrative, reflective, dialogic practices integrating economic/social/ecological values	Addresses research objectives on expanding accounting roles in renewables
Accountability Outcomes	Generated accountability model	Forms multi-narrative humanistic, sustainability-oriented model supporting governance innovation	Shows conceptual/practical implications of accounting transformation
Theoretical Implications	Contributions to accounting theory	Accounting understood as social-cultural practice, not mere technical system	Strengthens critical accounting and sustainable financial management
Practical Implications	Relevance for organizations and policymakers	Reporting/governance developed via visualization, narrative, curatorial approaches	Provides basis for reporting innovation in multisector organization

Source: Researcher, 2025

Sustainability focus becomes increasingly integrated, particularly within energy transition contexts. Accountability now encompasses environmental performance evaluation and contributions to SDGs 7 & 13, extending beyond mere financial achievements. Data from Table 4 illustrates how contextual drivers—such as digital disruption and renewable energy transitions—create epistemological pressure on conventional accounting, with art curation mediating mechanisms (visualization, narrative, performativity) translating this into reflexive narrative practices. Accounting practice transformation yields humanistic accountability outcomes, with theoretical implications reinforcing critical accounting (Tinker, 1980) and practical implications for regulators like IPSASB (2021).

Theoretical implications findings extend existing literature by demonstrating that technology-based art curation is not only an aesthetic practice but also a structured mechanism for ESG communication. Integrates concepts of visualization, selection, narrative construction, and performativity into a unified analytical framework. This contributes to bridging fragmented theories that previously treated accounting, curation, and technology as separate domains.

Methodological implications shows that NVivo-based qualitative document analysis can be effectively used to examine interdisciplinary topics. By combining multiple source types and applying systematic coding, the research reduces subjective interpretation and strengthens analytical rigor. The triangulation with prior interview-based studies further supports the validity of the findings without relying on primary interview data. Practical implications for practitioners, including curators, accountants, and sustainability managers, the results highlight the potential of AI and digital platforms to improve ESG communication. Technology-based curation can enhance transparency, support multi-stakeholder engagement, and address challenges such as asset value fluctuation and complex data representation. Organizations can adopt these approaches to present sustainability information in more accessible and interactive formats. Finally, policy implication suggests that regulators and standard-setting bodies should consider incorporating visual and narrative-based reporting approaches into ESG frameworks. Improve the clarity and comparability of sustainability disclosures across sectors.

CONCLUSION

Accounting transformation is not determined merely by technology adoption, but by how technology is mediated through selective, narrative, and reflexive art curation practices. Accounting evolves from technical reporting systems into social and cultural practices capable of more meaningfully representing economic, social, and ecological value complexity. Art and technology integration produces fundamental shifts in accountability conceptualization. Accountability transcends single numerical reporting obligations, becoming a value communication process accommodating stakeholder perspective and interest plurality. More humanistic, sustainability-oriented accountability becomes conceptually and systematically achievable. Future research directions include cross-sector, multi-geographical case study-based empirical studies to test and enrich the developed conceptual framework. Further exploration of policy implications and innovative narrative/visualization-based reporting system design can expand this research's practical impact for global sustainable financial governance development.

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