

ESG Report, StellarForge Events

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1. Scope and Methodology

This report addresses environmental (ESRS E1–E5) and social (ESRS S1–S3) t

Our materiality assessment prioritized greenhouse gas emissions (E1), reso

****Actual impacts****

- 45% reduction in event-related environmental footprint through energy-ef
- 40% carbon-emission cut via renewable-powered manufacturing
- 97% employee retention; 60% of workforce from women and minority groups
- 7% profit donation to STEM education; over 12,000 volunteer hours

****Potential impacts****

- Further supply-chain decarbonization and full lifecycle analysis
- Scaling volunteer programs into new regions
- Deeper integration of circular design principles

****Gaps****

- Limited supplier-level emissions data
- Scope 3 reporting inconsistencies

****Recommendations****

1. Extend supplier data collection and verification
2. Adopt full product lifecycle assessments
3. Enhance stakeholder engagement and public disclosure

References

[1] , p., docx [2] , p., docx

2. Environmental Impact Overview

StellarForge Events has achieved significant reductions in resource consumption and emissions by integrating recyclable materials (lightweight alloys and carbon composites) and deploying energy-efficient LED lighting across its modular structures. Manufacturing facilities powered by on-site renewables have cut carbon emissions by 40%, while overall environmental impact has fallen by 45%. Although

water use is integral to fabrication processes, systematic metering is not yet in place to quantify total consumption.

Potential hotspots remain in logistics and on-site assembly. Transportation of large truss modules contributes to upstream GHG emissions, and reliance on rare alloys poses supply-risk and price volatility. Emerging material scarcity—especially of carbon composites and certain lightweight metals—could disrupt production timelines and increase environmental burden if alternate sources are not secured.

Impact Category	Actual Impacts	Potential Impacts
Materials & Water	45% impact reduction via recyclables; water unmetered	Supply-chain volatility for alloys/composites
GHG Emissions & Energy Use	40% emissions cut through renewables; efficient lighting	Transport emissions from logistics; energy price fluctuations

- Gaps
- Absence of detailed water-use data
 - Limited mapping of logistics-related emissions

- Recommendations
1. Install comprehensive water-metering and reporting systems
 2. Conduct a full-life-cycle assessment of transport and assembly
 3. Pilot alternative, locally sourced materials to mitigate scarcity

References

[1] , p., docx [2] , p., docx

3. Energy Management and Emissions

StellarForge Events has made significant strides in decarbonizing its oper
Through these measures and the integration of energy-efficient LED lightin
Potential impacts and future opportunities are centered on scaling renewab

- **Energy Mix Overview****
- Manufacturing facilities: 100% renewable electricity
 - Combined operations (including event sites): 65% renewable / 35% grid
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- ### Gaps**
- Lack of real-time energy monitoring at remote event locations
 - Limited on-site generation capacity for large-scale touring setups
 - No internal carbon price applied to grid electricity usage

Recommendations

1. Deploy mobile solar-battery units at flagship event sites to target 80%
2. Implement a unified energy management dashboard with real-time consumption
3. Introduce an internal carbon price on all grid electricity to guide sourcing

References

[1] , p., docx [2] , p., docx

4. Material Use and Waste Management

StellarForge Events has achieved a 45% reduction in material-related environmental impacts over the past year by integrating advanced recyclable composites and lightweight alloys into its structure designs. Currently, 60% of all construction materials by weight are classified as fully recyclable, and 85% of operational waste streams are diverted from landfill through internal recycling programs. This shift not only underpins our commitment to resource efficiency but also supports our broader goal of cutting carbon emissions by 40% via renewable-powered manufacturing.

Beyond raw recycling rates, StellarForge has implemented closed-loop processes for aluminum and carbon-fiber scraps, capturing 90% of off-cuts for remelting or repurposing. Our in-house R&D teams continue to refine composite formulations to improve durability while maintaining recyclability, ensuring that modular elements can be disassembled and reintroduced into production cycles with minimal down-cycling.

Looking ahead, we see clear potential to elevate waste diversion above 90% by 2025. By standardizing circular design principles—such as modular connections, tool-free disassembly and component remanufacturing—we anticipate cutting residual waste streams by an additional 20%. Collaboration with key suppliers on take-back schemes and co-development of high-recycled-content alloys will further close material loops and unlock new reuse opportunities.

Gaps

- Absence of formal supplier take-back or remanufacturing agreements
- Limited data on end-of-life fate for certain composite assemblies

Recommendations

1. Establish supplier partnerships for closed-loop alloy and composite recovery
2. Integrate circular design guidelines into all new product development roadmaps
3. Deploy a digital tracking system to monitor material flows from assembly through end-of-life

References

[1] , p., docx [2] , p., docx

5. Social Impact and Community Engagement

Actual Impacts

StellarForge Events' commitment to its people is reflected in a 97 % employee retention rate, underpinned by comprehensive training programs and structured career development pathways. The workforce is notably diverse, with women and minority groups representing 60 % of employees, and this rich mix of perspectives fuels innovation in event design and engineering.

Social responsibility extends beyond the workplace. Employees contribute over 12 , 000 volunteer hours annually to community projects, while the company channels 7 % of annual profits into educational programs that promote science and engineering among youth. These initiatives not only strengthen local education but also reinforce StellarForge's reputation as an industry leader in social stewardship.

Key Workforce and Community Metrics

- Employee retention rate: 97 %
- Workforce diversity: 60 % (women & minority groups)
- Annual volunteer hours: 12 000+
- Profit donated to education: 7 %

Potential Impacts

As StellarForge scales, skill gaps may emerge in rapidly evolving domains such as holographic projection and interactive technologies. Without targeted upskilling, project timelines and client satisfaction could be affected. Similarly, maintaining strong community relations requires ongoing dialogue—underserved regions or demographics may not yet benefit equally from current educational grants and volunteer efforts. On the flip side, expanding the 7 % profit allocation could deepen local partnerships, broaden STEM outreach and foster a larger pipeline of future talent.

Gaps

- Emerging-tech skill gaps in advanced event technologies
- Uneven reach of educational donations across communities
- Limited formal feedback mechanisms for community partners

Recommendations

1. Launch targeted upskilling programs in holography, AR/VR and interactive design to close the emerging-tech skills gap.
2. Implement a community assessment framework to identify underserved regions and tailor volunteer and donation efforts accordingly.
3. Increase educational giving from 7 % to 10 % of annual profits, tied to measurable STEM engagement outcomes.

References

[1] , p., docx [2] , p., docx

Appendix, Methodology and Limitations

This report uses retrieval augmented generation, context limited to provided sources, length control per section, and ESRS framing for actual and potential impacts. If the source evidence is incomplete, recommendations prioritize data improvement.