

Eastern Lights Industries Private Limited

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Authors:



Zeehan Rahman - Managing Director



Thomas Beaton - CIO

Executive Summary

Eastern Lights Industries Pvt Ltd, a pioneering company in supercomputing, presents a comprehensive development plan, underpinned by a commitment to United Nation : Sustainable Development Goals (SDGs). This plan is designed to drive not only commercial success but also substantial socio-economic and environmental benefits, particularly in remote areas.

Pilot Project in Kalimpong (Palla): This involves the establishment and operation of a data centre, local hiring, and the formation of a Local Area Development Committee. The committee will oversee village development plans, with a budget of 10 Lakhs, and seasonal employment opportunities.

Expanded Projects in West Bengal: The implementation of two additional 10 MW Data Centre projects, accompanied by agricultural R&D programs, further local hiring and training, and community development plans. Budgets of 20 Lakhs for village development and scholarships for local students are planned.

Additional Community Services: After one year of operation of the 13.5 MW, we aim to provide ambulances for free medical transportation services in the Kalimpong area, emphasising our commitment to community health and welfare.

Eastern Lights Industries Pvt Ltd is dedicated to driving sustainable development through innovative technology and community-focused initiatives. Our development plan not only aligns with the SDGs but also represents a holistic approach to corporate responsibility, aiming to create a lasting positive impact on the communities we serve.

Sustainable Development Goals

The founders of Eastern Lights Industries Pvt Ltd feel privileged to be engaged in a process where the growth of the company can be assessed upon more than commercial benefits alone. Supercomputing activities have forever changed the lives of the company founders and the leading purpose of Eastern Lights Industries Pvt Ltd and our global partners has been to create external benefits through supercomputing to make the world a better place.

In our previous business, we were deeply motivated to make positive changes to affect the scale of inequality, poverty and discrimination we observed in the remote areas where we operate facilities. Within Eastern Lights Industries Pvt Ltd we have identified 6 categories of activities leading to SDG impacts and achieving 17 of 17 SDG Goals.

SDG Goals Addressed By Eastern Lights Industries Pvt Ltd

SDG 1 ✓	SDG 2 ✓	SDG 3 ✓	SDG 4 ✓
SDG 5 ✓	SDG 6 ✓	SDG 7 ✓	SDG 8 ✓
SDG 9 ✓	SDG 10 ✓	SDG 11 ✓	SDG 12 ✓
SDG 13 ✓	SDG 14 ✓	SDG 15 ✓	SDG 16 ✓
SDG 17 ✓			

1. Direct operational impacts: SDG impacts resulting directly from the core operation of our data centres and electricity generation activities. We have a long track record of operating high-tech data centres in remote/rural locations and developing countries.

Our data centre operations have enabled high levels of synergy with the UN SDG Goals, however, Eastern Lights Industries Pvt Ltd's symbiosis of next generation data centres with hydropower of West Bengal enables even higher degrees of SDG Impacts. This combination allows us to impact 11 of 17 SDG Goals.

2. Hiring & training policies: Prioritising the staff at the core of our data centres has always been our practice. In the past our hardest working and most loyal staff have proven to be those who suffered long term unemployment, possess no skills or those who have been discriminated against by their communities in remote and rural locations.

We have observed most businesses in remote areas beholden to local government support, local customers or large local companies for supply or

custom. We buck these trends with our digital industrial style export operations. This allows us to hire those who are most discriminated against by their local communities without fear of recrimination by the local business community or government. Whether discriminated against due to race, religion, gender, age or previous actions we strongly believe everyone is entitled to second chances and to be treated equally.

We see great benefits to investing in our people. Our CTO personally trained every one of our staff members at our previous data centre development. Successfully turning entirely unskilled labour into qualified data centre technicians. This training has proven so effective that the new owner of our last data centre has sent these staff all over the world to lead and train their other teams who operate much larger facilities.

3. Public Site Facilities: Leveraging our data centres to offer public areas with free access to internet and ICT resources for local residents. With little impact upon our operations this achieves 4 of 17 SDG Goals at our facilities in West Bengal. We envision to offer computer and internet access to the locality via free use of computers nearby our sites.

4. Staff Benefits & Facilities: The company founders, having all begun careers in entry level positions, understand first hand how worries can impact the lives and job performance of workers. It has been core to our beliefs that assistance, benefits and facilities provided by employers can be as important to employees as the wages they receive. For these reasons we engage in ambitious programmes to assist the lives of our employees and their families. We see this as not just philanthropic but also increases the loyalty and effectiveness of our work force resulting in direct commercial benefits. In addition to commercial advantages, this also enables us to impact 5 of 17 SDG Goals.

5. Local Schemes : Eastern Lights Industries Pvt Ltd provides the framework & resources for targeted local schemes and grants. Specifically within Kalimpong the proposed schemes and grants enable SDG Impacts to be felt by the wider local communities beyond our staff and their families. This includes investment into local infrastructure, efforts to reduce disaster risks, microloans and provision of transportation and health services. Through these measures we hope to widen the scope of SDG Impacts in the communities where we operate and to further achieve 5 of 17 SDG Goals.

6. Research and Development: Eastern Lights Industries' executives are engaged in two principal research and development projects with high degrees of synergy to core operations in the UK and Norway. Both relate to the reuse of data centre waste heat for commercial applications.

Heating and cooling accounts for about half of the global final energy consumption. It is the largest source of energy end use, ahead of electricity (20%) and transport (30%), and is responsible for more than 40% of global energy-related carbon dioxide emissions. Data centres are becoming exponentially more electricity intensive, with up to 97% of that electricity converted into recoverable heat. With this understanding the Eastern Lights Industries Pvt Ltd executive team have designed two systems for the reuse of data centre waste heat. The first is for supplying heat to on-shore aquaculture and aquaponic sustainable farming practices. The second relates to the use of waste heat for desalination to create fresh water sources.

Eastern Lights Industries plans to develop R&D operations at each of its sites, achieved with simple constructions where data centre heat is diverted. This provides commercial space for community-led R&D projects which advance and trial designs for sustainable aquaculture, aquaponics and other farming innovations.

In addition to advancing innovation within the sustainable food and water production space, this also enables Eastern Lights Industries Pvt Ltd to impact 5 of 17 SDG Goals.

Sustainable Development Goal Impacts

Table 1 - SDG impacts analysed across all company activities

Activity ID	Source of Impacts	SDG Goals	Activities	UN SDG Indicator for Impact Measurement
1 Direct Operational Impacts				
1a	Direct Operational Impacts	SDG 4	Sustainable Development Practices and Operations	4.7.1
1b	Direct Operational Impacts	SDG 6	Our data centres are built to consume little or no water, compared with low water usage effectiveness typically seen within the data centre industries	6.4.1, 6.4.2
1c	Direct Operational Impacts	SDG 7, 9, 12, 13, 14 & 17	Utilising renewable energy to power our data centre for energy intensive compute along with our global partners' "Airflow management system" leads us to apply global innovation in Kalimpong and increase the efficiency of our data centres.	7.1.1, 7.1.2, 7.2.1, 7.3.1, 7.a.1, 7.b.1, 9.4.1, 12.1.1, 12.a.1, 12.c.1, 13.1.3, 13.a.1, 14.3.1, 17.3.1, 17.7.1, 17.17.1
1d	Direct Operational Impacts	SDG 8 & 9	Deployment of high tech industrial data centres to areas which are rural, remote places such as Kalimpong	8.1.1, 8.2.1, 9.2.1, 9.2.2, 9.b.1
1e	Direct Operational Impacts	SDG 8, 12, 14 & 15	Technology and designs for data centres which use dramatically less (over 66% less) land compared with existing and commonly adopted practices.	8.4.1, 12.2.1, 14.2.1, 15.1.1
1f	Direct Operational Impacts	SDG 8	Deployment of industrial data centres which are safer to operate than other industrial processes. It provides for decent work and economic growth in rural communities .	8.8.1
1h	Direct Operational Impacts	SDG 10	Facilities are constructed in remote and rural areas.	10.b.1
1i	Direct Operational Impacts	SDG 12	Operational practices which make it profitable to deploy end of life computer components "e-waste" into data centre operations. Extending operational life and reducing total e-waste.	12.5.1
1j	Direct Operational Impacts	SDG 12	Policies mandating that we; Publish annual sustainability reports, prioritising key suppliers who do the same and insist that all non-key suppliers themselves publish sustainability reports within 12 months of contracting us.	12.6.1
1k	Direct Operational Impacts	SDG 17	The export of digital services from our data centres and resulting Forex payment flows to local operational companies.	17.3.2, 17.11.1
2 Hiring & Training Policies				
2a	Hiring & Training Policies	SDG 1,8,10	Providing wages to employees and prioritising hiring of groups who are at high risk of poverty, unemployment (including informal employment) & discrimination. In further efforts to tackle discrimination we operate a "Second Chance Policy" where we do not consider past records, or, previous dismissal from employment when hiring candidates for entry level positions.	1.2.1, 1.2.2, 8.3.1, 8.5.1, 8.5.2, 8.6.1, 10.1.1, 10.2.1, 10.3.1, 10.4.1, 16.b.1
2b	Hiring & Training Policies	SDG 1	When our facilities are developed in remote and rural areas, we prioritise the hiring of local people .	1.2.1, 1.2.2
2c	Hiring & Training Policies	SDG 4	Operating apprenticeship programmes at our facilities to target local youths. In addition scholarships will be offered to apprentices to provide opportunities for further education.	4.3.1, 4.4.1, 4.b.1
2d	Hiring & Training Policies	SDG 4	Structured training policies enable us to target hiring of unskilled and uneducated workers. Giving them opportunities to learn ICT skills and to become qualified data centre technicians.	4.3.1, 4.4.1
2e	Hiring & Training Policies	SDG 5	Target of 30% female employment by 2030 , 14% above global averages for female employment in managerial positions within the ICT industry.	5.5.2
2f	Hiring & Training Policies	SDG 8	Our hiring policies globally will mandate that staff evidence their children are not in employment and are enrolled into formal education.	8.7.1
2g	Hiring & Training Policies	SDG 16	We will operate strict anti bribery and anti corruption policies with regular reviews.	16.5.1, 16.5.2
3 Public Site Facilities				
3a	Public Site Facilities	SDG 1, 9, 13 &	Every data centre will have publically accessible computer rooms with both computers and internet access freely available	1.4.1, 4.4.1, 9.c.1, 13.1.3, 17.8.1

		17	to local residents. This will be provided with in-built ICT training software to ensure access for all. Free wifi will also be available outside the facilities to provide internet connectivity to people in remote areas of developing countries.	
4 Staff Benefits & Facilities				
4a	Staff Benefits & Facilities	SDG 1	We will operate programmes to assist all staff, regardless of levels of literacy, in opening bank accounts and accessing banking services into which their wages will be paid.	1.4.1
4b	Staff Benefits & Facilities	SDG 3 & 6	Every facility will include free hygiene and wash facilities which are available for use by all staff and their family members.	3.9.2, 6.2.1
4c	Staff Benefits & Facilities	SDG 4	Daycare services will be offered to all staff with children below primary school ages.	4.2.2
4d	Staff Benefits & Facilities	SDG 4	Non-formal education will be offered to all staff members by way of training programmes. Scholarships, paid sabbaticals and flexible employment will be offered to any staff members who wish to engage in formal education. Scholarships will be offered to children of employees	4.3.1
4e	Staff Benefits & Facilities	SDG 10	Staff in developing countries will be offered work opportunities at our facilities in developed countries. Any staff electing to do so will be given financial assistance to cover relocation, travel and visa costs.	10.7.1
4f	Staff Benefits & Facilities	SDG 10	Any staff who elect to work overseas and request portions of their wages are remitted to home countries will have the remittance costs covered by the company.	10.c.1
5 Local Schemes & Grants				
5a	Local Schemes & Grants	SDG 3	A local scheme will be run where we pay for community ambulances and health services . Ensuring staff, their families and other local residents have access / routes to health services	3.b.3
5b	Local Schemes & Grants	SDG 6	Staff members will be offered forgivable micro loans (ranging \$200-\$400) to provide better sanitation and hygiene facilities in their homes and local communities.	6.2.1
5d	Local Schemes & Grants	SDG 11	The on-site data centre electricity will be used to power LED street lighting we provide to local areas which do not currently possess that infrastructure.	11.1.1
5e	Local Schemes & Grants	SDG 13 & 15	In Northern India we will provide staff with grants and paid time-off to engage in targeted tree planting programmes to reduce the local risk of landslides.	13.1.3, 15.1.1
6 Research & Development				
6a	(R&D) Heat Use Agriculture	SDG 2, 9, 13 & 14	Structures will be built next to the data centre, capturing the substantial waste heat from operations. This space will be made freely available for community programmes which wish to engage in sustainable aquaculture and vertical farming .	2, 9.3.1, 9.5.1, 9.5.2, 13.1.3, 14.7.1
6b	(R&D) Heat Use Desalination	SDG 6, 9 & 13	R&D is underway to capture waste heat from data centre facilities at temperatures which will enable desalination of water. Providing new, secure and sustainable sources of fresh water.	6.4.2, 6.a.1, 9.5.1, 9.5.2, 13.1.3

Roadmap for implementation

Pilot Project (2025)

- Establishment and operation of the pilot project.
 - Establishment of a hiring committee
 - Hiring 8 people from the local area near the pilot data centre.
 - The 8 unskilled people will be trained and brought under the employment of Eastern Lights Industries Pvt Ltd.
- After 6 months of successful operation
 - Establish a Local Area development committee with
 - 1 Chairman, 1 Advisor, 2 Local stakeholders, 1 Eastern Lights Industries Advisor
 - Village development plan for the data centre area with a budget of 10 Lakhs only
 - Plan approval by Chairman of Local Area development committee and Eastern Lights Industries Advisor
 - Disbursement of money
 - Village development work starts
- Seasonal employment of 5 to 7 people as and when required



Figure 1, shows 1 acre Palla Pilot Site, Kalimpong.

Site 1 : Capacity 10 MW (2025 or 2026)

- Establishment and operation of the 10 MW Data Centre project.
 - Establishment of a hiring committee
 - Hiring 12 people from the local area near the pilot data centre.
 - The 12 unskilled people will be trained and brought under the employment of Eastern Lights Industries Pvt Ltd.
- Establishment of Agricultural research and development program
 - Hiring 8 people from the local area near the pilot data centre.
 - The 8 unskilled people will be trained and brought under the employment of Eastern Lights Industries Pvt Ltd.
- After 6 months of successful operation
 - Local Area development committee will draw up a village development plan for the data centre area with a budget of 20 Lakhs only.
 - Plan approval by Chairman of Local Area development committee and Eastern Lights Industries Advisor
 - Disbursement of money
 - Village development work starts
- Seasonal employment of 8 to 15 people as and when required
- After 1 year of operation, we envision offering scholarships for local students to pursue university education.
- Internship or Apprenticeship for students interested and qualified for Data Centre operations.

Site 2 : Capacity 10 MW (2025 or 2026)

- Establishment and operation of the second 10 MW Data Centre project.
 - Establishment of a hiring committee
 - Hiring 12 people from the local area near the pilot data centre.
 - The 12 unskilled people will be trained and brought under the employment of Eastern Lights Industries Pvt Ltd.
- Establishment of Agricultural research and development program
 - Hiring 8 people from the local area near the pilot data centre.
 - The 8 unskilled people will be trained and brought under the employment of Eastern Lights Industries Pvt Ltd.
- After 6 months of successful operation
 - Local Area development committee will draw up a village development plan for the data centre area with a budget of 20 Lakhs only.
 - Plan approval by Chairman of Local Area development committee and Eastern Lights Industries Advisor
 - Disbursement of money
 - Village development work starts
- Seasonal employment of 8 to 15 people as and when required
- After 1 year of operation, we envisioned providing ambulances for the Kalimpong area to offer free medical transportation services for the local population.

Artificial Intelligence Edge Data Centres (2030)

After 3-5 years of successful operation of the ELI data centre, we will have a trained staff of 20-30 individuals who will be proficient in the Data Centre operations .

In the year 2029/30, we will be working towards building the first Artificial Intelligence Data Centres in West Bengal along with our global partners in the United Kingdom, Norway and the United States of America.

We aim to be the pioneers in edge computing Artificial Intelligence Data Centre and provide the benefit of Edge Computing to West Bengal.

Software and Industrial Park (2030)

By the year 2030, we aim to leverage our proficiency in data centre development and software building abilities to create an atmosphere that welcomes global talent into the west bengal software markets. We aim to develop software and industrial parks that will ensure the technology development and hopefully create technology and industry based developmental townships such as Bangalore and Gurugram.

Development Benefits of Eastern Lights Industries Pvt Ltd

In total, ELI will bring direct economic benefits to 48 families through full-time employment opportunities. In addition, ELI will invest in the local communities where its sites are developed, including but not limited to, water, solar, healthcare and education infrastructure.

Secondary benefits of ELI's development plan include, more employment opportunities with Agri-Tech solutions such as, aquaponics, hydroponics & aquaculture.

Through this development plan, ELI hopes to transfer and distribute industry knowledge and the latest innovations within IT, data centre operations, and agriculture industries.

The developmental benefits are highlighted below :

- **Employment** : 48 local families helped through direct employment
- **Structured training policies**: opportunities to learn ICT skills from Chief Technical Officer James Collins and Europe IT Director Ismael Valero and to become qualified data centre technicians
- **Local Schemes & Grants** : Formation of village development committee and local area development of Rs 10 Lakhs, Rs 20 Lakhs and Rs 20 Lakhs as per the roadmap presented above.
- 30% Female employment in management positions within Eastern Lights Industries by 2030
- Publicly available **computer facilities** and free internet facilities for the local community
- **Ambulance facility** donated by Eastern Lights Industries for the local community as per the roadmap.
- **Scholarships** for local students to pursue university education.
- **Internship or Apprenticeship** for students interested and qualified for Data Centre operations.
- Establishment of **Artificial Intelligence Edge Data Centres** in West Bengal in 2028 along with our European and American Partners bringing the Artificial Intelligence data centre revolution to West Bengal.
- Forgivable micro loans to provide **better sanitation and hygiene facilities** for local areas
- **LED Street light programmes** for local areas without street light infrastructure.
- Sustainable Agriculture and heat reuse, which enables **Agri-Tech, Aquaculture and Algae Culture programmes and Vertical farming**, thereby providing more employment and ensuring food sustainability.