



## Project Final Report

Name of the Organization: Green Lead

Project Name: Re-energize Bangladesh (RB)

Submission Date: 25/01/2025

### Project Information (250 words)

- Briefly describe about the project

The project **Reenergize Bangladesh (RB)** aims to support the energy transition of Bangladesh based on the roadmap the country's strategy for achieving renewable energy goals. Centered around the Key Priority Area 6 of the Mujib Climate Prosperity Plan (MCPP), "Maximized Renewable Energy, Energy Efficiency, and Power & Transportation Sector Resilience," the initiative aims to play a crucial role in securing energy independence and accelerating the growth of a just energy transition.

The project consists for two key components:

1. **A Website on National Energy Scenario:** This component involves the creation of an intuitive and accessible website offering a comprehensive overview of Bangladesh's renewable energy landscape. The dashboard will focus on addressing the needs through data visualizations, infographics, and highlight key developments. It aims to provide a visual understanding of where Bangladesh stands in terms of achieving its renewable energy goals and the way forward.
2. **Course on Renewable Energy Education:** To support a just energy transition of Bangladesh, the project will develop an Energy Education Module name "energizED: Educating the Next Generation of Energy Leaders". The module will include videos on renewable energy basics, and curated list of energy education resources. The module aims to supplement the traditional education on renewable energy and will be accessible for everyone, especially university students.

- **Start and end date of the project:** May 2024- February 2025
- **Targeted participants of the project:** Youth, Energy enthusiasts, Energy Practitioners
- **Location of the project:** The project is a digital website-based project that can be accessed anywhere in Bangladesh.

Website Link: <https://greenleadglobal.org/re-energize-bangladesh/>

Trailer of course 'energizED': [https://drive.google.com/file/d/1qwk\\_wThjy4NsSB6ypJcr\\_-qNYJCWGGjBU/view?usp=sharing](https://drive.google.com/file/d/1qwk_wThjy4NsSB6ypJcr_-qNYJCWGGjBU/view?usp=sharing)

Facebook Page Link: <https://www.facebook.com/profile.php?id=61557546309473>

### Objective of the Project (Write down in bullet points)

The project Reenergize Bangladesh (RB) aimed to achieve two objectives mentioned below:

1. To develop a website on the energy scenario of Bangladesh
2. To develop an energy education module and organize a training session

### Measuring progress of the project

	Name of activities	Target	Progress	Remarks
1	Research & Data Collection	An overview of the energy scenario and datasets	Completed	N/A
2	RB website development	A live and functional website	Completed	N/A

3	Course curriculum and content development	script for 5 videos on RE concepts	Completed	N/A
4	Video shoots and post-production	shooting the videos and edit	Completed	N/A
5	Re-energize You training	Introducing the website, concept, and feedback	Completed	N/A
6	Launch of the initiative	officially launch and promote the platform and course	TBD	

Narrate the achievement of your project according to your project objectives	
<p><b>Objective 1:</b> 1. To develop a website on the energy scenario of Bangladesh</p> <p><b>Achievement:</b> We have developed a one-of-a-kind digital portal in Bangladesh which can work as the one stop information center for renewable energy information. The features include data visualization of energy scenario, interactive charts, maps and solar calculator. The website has been accessed 1000 times in beta phase and aimed to be used by 1 million users in the next 3 years.</p>	
<p><b>Objective 2:</b> To develop an energy education module and organize a training session</p> <p><b>Achievement:</b> We have developed the curriculum and produced the course videos. The course titled ‘energizED: Educating the Next Generation of Energy Leaders’ is presented by and for the youth of Bangladesh. We have also organized a training titled “Re-energize You: Explore Your Career into Renewable Energy” and FGD on the platform development.</p>	

People reached			
<ul style="list-style-type: none"> <li>Number of people reached directly through project interventions.</li> </ul>			
Event/Activities	Number of people reached		Total
	Women	Men	
Tech Team: Web Development	3	4	7
Course Content, Instructor and Production	2	4	6
Session on “Re-energize You” and FGD	3	9	12
Total			25

- **Number of people reached through social media (On particular awareness-raising issues)**

Posting date on social media	Number of people reached (Viewer)	Social media Link (FB/YouTube)
Jul 8, 2024	1269	<a href="#">Link</a>
August 11, 2024	465	<a href="#">Link</a>
August 25, 2025	516	<a href="#">Link</a>
Dec 7	1935	<a href="#">Link</a>
Dec 11, 2024	646	<a href="#">Link</a>
Dec 13, 2024	222	<a href="#">Link</a>
Dec 24, 2024	515	<a href="#">Link</a>
Jan 14, 2025	99	<a href="#">Link</a>
Linkedin Top Posts	2127	LI Page <a href="#">Link</a>
Others posts	2000+	<a href="#">Link</a>
Total	10,000+	<a href="#">Facebook Page Link</a>

**The CAP-RES project has three objectives as follows:**

**Objective 1:** Create enabling environment and foster individuals to enhance their knowledge of climate change issues and develop their problem-solving skills.

**Objective 2:** Generate factual evidence from local practices to scale up at the global level.

**Objective 3:** Improve institutional efficiency and effectiveness in decision-making and putting into practice in climate intervention.

**Based on these above objectives which one is more relevant to your project? How your project objectives and activities achieved this objective? (Maximum 200 words)**

Our project is relevant to objective 1 and objective 2 of the CAP-RES project. The website on the energy scenario of Bangladesh based creates an enabling environment for the Bangladeshi youth to enhance their knowledge on renewable energy. The education module is specifically designed for university students and curated for the Gen-Z audience. It will inspire them to explore career and research opportunities in the renewable energy sector. The data driven dashboard helps energy practitioners and institutions to increase their efficiency in decision making and apply in climate intervention. It can be used as a go to place for information on Bangladesh energy landscape and an effective tool to take decisions related to the energy transition.

### **Skills/Capacity**

- What new skills/capacity you have developed?

We have identified three new skills

1. Research and data collection of technical topics
2. Ability to communicate technical information in a comprehensible way
3. Data visualization and web development

We will continue improving these three new skills as we move ahead with the project.

- What knowledge or skills do you think would have improved your project?

Firstly, the knowledge of the renewable energy scenario of Bangladesh has improved through research and data collection. The dashboard will help users have a holistic understanding energy landscape of Bangladesh. Secondly, web development was a big part of our project and we have increased our expertise through the implementation of new technologies.

#### **“Lesson-learned” of your project**

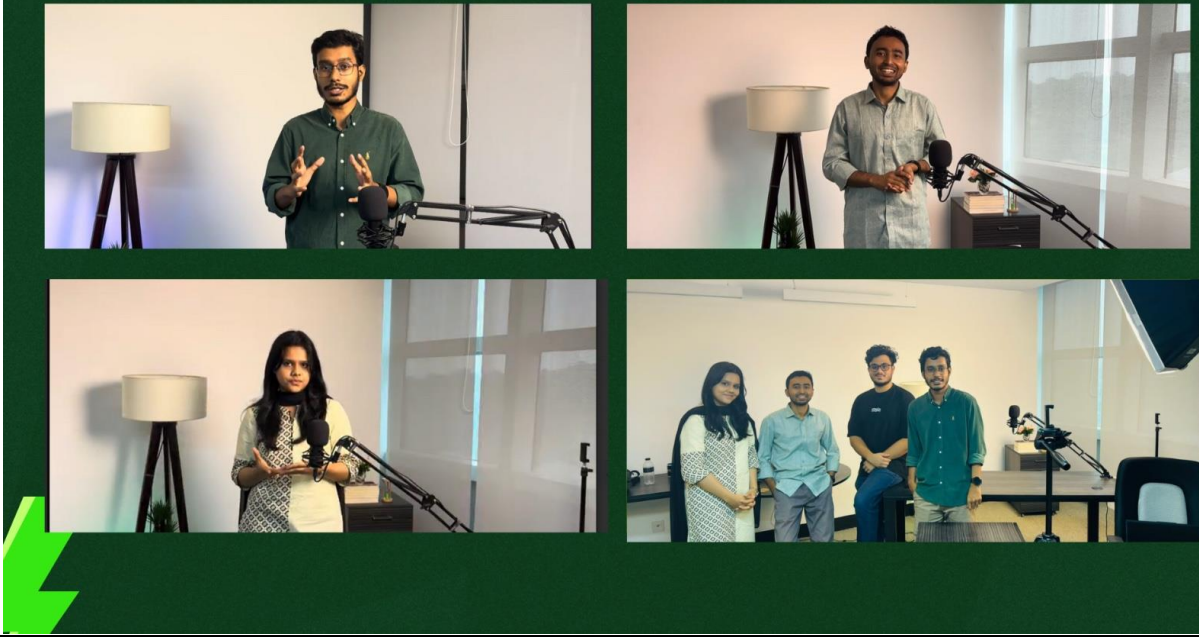
We have learned several lessons from the project. The key lessons are mentioned below:

1. Learned how to understand and present technical topics like renewable energy to the youth and general audience.
2. Gained experience of how to manage a technical team to get the desired output.
3. Improved communication skills in technical information.

#### **What are the challenges/Risks you faced during the project activities? How you overcome/minimize those challenges?**

We have faced several challenges during the project. The web-based dashboard is something new that we wanted to develop. The core challenge was to have the right skills for web development and video production. Our web developers have worked hard to experiment and find the appropriate technologies. Also, our video production team has the challenging task of creating Gen-Z-friendly videos. They have put in their effort to produce attractive content that serves the purpose. Lastly, the challenge was completing the tasks on time and our team has tried its best within the constraints.

Selected best 5/6 pictures of the project intervention: Attached on the form



**Image 1: Video Course Shooting**

Made with VISME



Area(km2)  
■ < 12,9K ■ 12,9K - 15,3K ■ 15,3K - 17,7K ■ 17,7K - 20,1K ■ > 20,1K

Made with Visme

## Bangladesh Re-energizing!

A one-stop renewable energy education platform featuring an energy dashboard and an energy education module.

### How are we doing on Renewable Energy growth?

Currently Bangladesh generates only 4.67% of its energy from renewable sources like solar, hydro, wind, biogas and biomass.

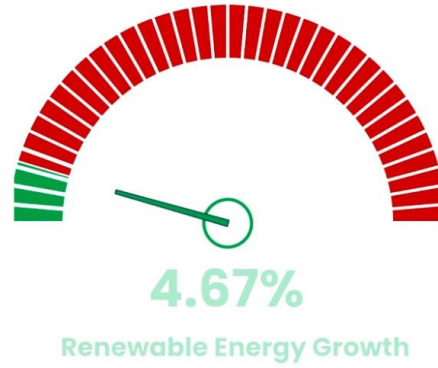
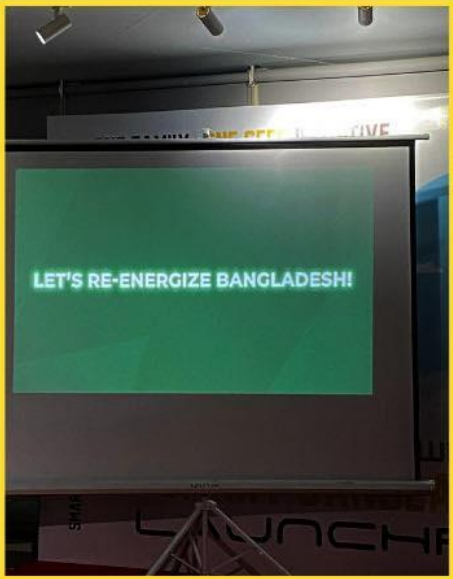


Image 2: Snapshot of Website



# RE-ENERGIZE BANGLADESH

Accelerating the renewable energy transition of Bangladesh



## How can you (engineers) contribute to the energy transition?

12 responses

- By reducing energy usage from our very own home.
- Creating a nexus of our academic aspiration and moral duty towards the nature. Enviro-engineer
- Introducing Energy Powerplant
- By thinking and implementing innovative solutions to tackle the arising problem.
- Engineers should take the place of policy maker.
- Propose optimal ways of converting renewable resources to energy
- Creating awareness within our own reach. From family, friends, hall
- BCS 🇷🇷
- Making existing energy machines more power efficient.
- By observing lifestyle of affluent
- An engineer can pursue career in renewable energy.



Image 3: Session on ‘Re-energize You’



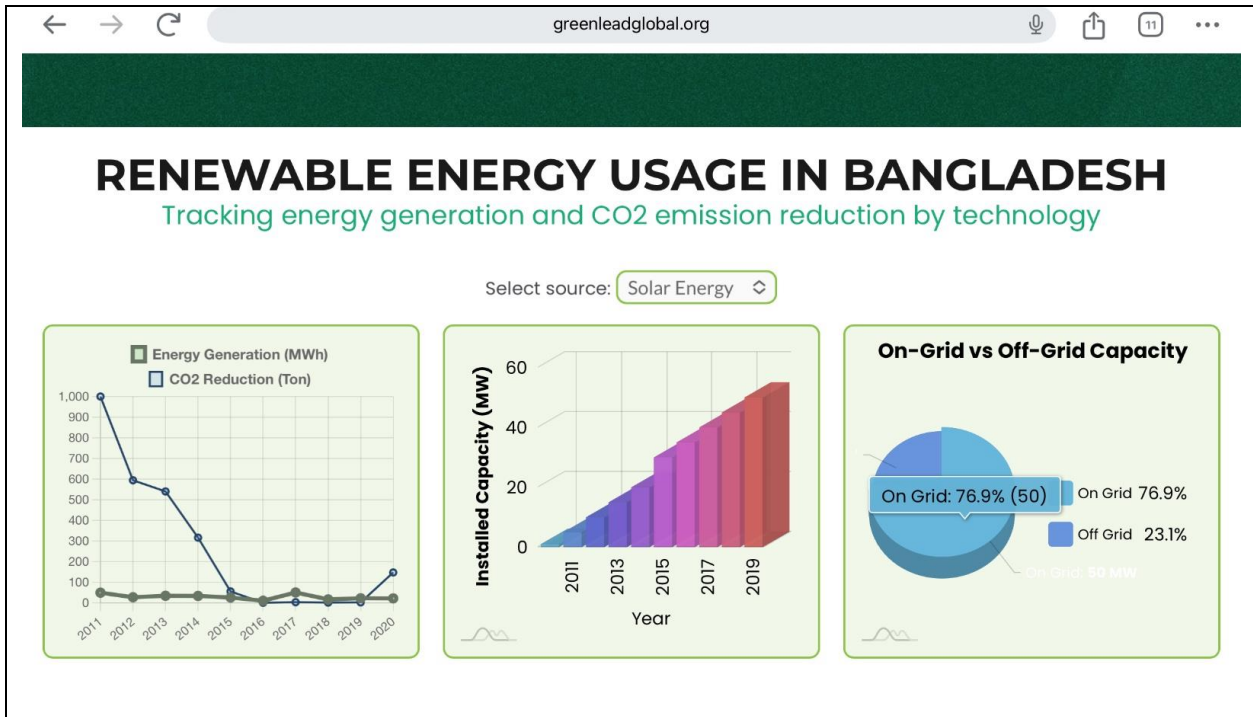


Image 4: Snapshot of Website 2



Image 5: Wind Power Mill Visit and Video Shoot



# Photos

Re-energize Bangladesh 's Photos

Albums

### Energy Ask

Episode - 1

What percentage of Bangladesh's total energy comes from renewable sources?

4% 6% 8% 10%

### Decreasing Solar Costs Make it the Most Viable Energy Source for Asia



### Breeze to BREAKTHROUGH

Bangladesh has launched its **First ever commercial wind power** in Cox's Bazar.

It has 22 turbines with a capacity of **60 MW**, started full scale operation on March, 2024

### Hydro Power

Hydro Power now contributes up to **230 MW** of energy which is a significant percentage in off the entire renewable energy mix.

Since 1988, **Kaptai Hydro Power Plant** in Rangamati has been the only operating hydro power plant in Bangladesh.

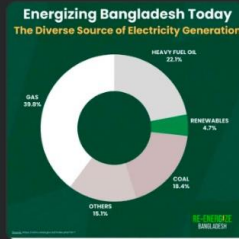
### OUR GOAL IS → 40% RE

Prioritizing Clean Energy between 2024 & 2041

### Solar

The Energy that makes it Worth Living

Renewable Energy accounts for only **4.7%** of total Electricity Generation in Bangladesh. Out of this, a staggering **78.6% is Solar Energy** & the rest of it comes from Wind, Hydro, Biogas as well as biomass.



### 100% Renewable by 2050?

Imagine a Bangladesh where everyone has access to clean, renewable energy. Achieving this is not just a dream; it's a feasible goal.

- With significant investments and strategic planning, we can:
  - Provide energy for all citizens.
  - Increase living standards.
  - Reduce our dependency on fossil fuels.

### A Sustainable Energy Future

The World's Future Council Project, **100% Renewable Energy for Bangladesh - Access to Renewable Energy for all within one generation** shows a bright future for Bangladesh.

- **8250 km<sup>2</sup>** land available, capable of generating **188 GW Solar Power**.
- Potential to **165 GW Wind Power**.
- Investing **\$40-100 billion** could save **\$140-220 billion** in electricity costs.
- **40%** of transport and up to **100%** of heating could be powered by renewables.

### Where does Bangladesh stand today?

<b>SOLAR ENERGY</b> 3 million solar home systems installed which provided clean energy for 13 million rural residents.	<b>SOLAR ENERGY</b> 50,000 new solar home systems regularly added across Bangladesh one of the fastest growing nations in solar energy.
<b>WIND ENERGY</b> Generating <b>300 kW</b> Mukur, Dhaka and <b>800 kW</b> in a small station, hybrid plant.	<b>GEOTHERMAL ENERGY</b> Geothermal Potential: Plans for a <b>200 MW</b> plant in Thakurgaon.

### IS BANGLADESH READY FOR 100% RENEWABLE ENERGY?

Did you know that Bangladesh currently only gets **2.81%** of its energy from renewable sources? It's time to change that! With incredible potential and ongoing projects, Bangladesh is on the brink of a renewable energy revolution.

### RE-ENERGIZE BANGLADESH

Image 6: Social Media Content