[Date]

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**Business Proposal**

Analysing the problem and solutions

# Business Context

The problem is that many people do not have correct and up-to-date information on green energy products available in the market and how these products will help them to reduce their carbon footprint. They also find it difficult to access reliable information and schedule consultations or installations

Provide customers with information about green energy products currently on the market and how to reduce their carbon footprint- The problem being solved here is lack of knowledge about the green energy products and how to reduce their carbon footprint. This will allow the company to provide helpful and accurate information to help customers to make better decisions.

Schedule consultations and installations - The problem being solved here is that booking consultations and installations can be confusing or sometimes they need to be done through a phone call which can be stressing and time consuming. The solution is to implement an easy online booking system that customers can access through try website and book it from there. This will allow the company to reduce manual work and improve customer service.

Carbon footprint calculator – The problem being solved here is that customers don’t know how much carbon footprint they produce. The solution is to implement a carbon footprint calculator to calculate the total carbon footprint used and its impact. This will help the business motivates their customers to buy green energy products to help them stay energy-efficient.

Account registration and customer dashboard- The problem being solved here the customers needs a way to track their consultations, installations and energy usage. The solution is to create a dashboard where all customer’s data is easily accessible for them to track.

Accessibility features to support wide range of users – The problem being solved here is complying with regulations such as W3Cs which require accessibility support. This will ensure the business meets the accessibility laws to avoid any law issues.

A tool for calculating and tracking energy usage – The problem being solved here is that customers want to track their energy use. The solution is to add a energy use tracking tool to view and track their consumption.

# Functional requirements:

The solution must have a home Page

The solution must have a register Page

The solution must have a login page

The solution must have an accessibility feature

The solution must have a about us page

The solution must have a contact us page

The solution must have a FAQs guide page

The solution must have an information on green energy products page

The solution must have an information page on how to reduce carbon footprint

The solution must have a consultation booking system

The solution must have an installation booking system

The solution must have a carbon footprint calculator page

The solution must have customer dashboard page

The solution must have an energy usage tracking tool page

# User stories

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| **As a <role>** | **I want to <goal>** | **So that <benefit>** | **User acceptance criteria** |
| As a new user | I want to access the home page | So that I can have an introduction to what the website is about | Go to Home page  Read introduction |
| As a new user | I want to register on the website | So that I can create an account and book a consultation | Click on register button  Enter email  Enter password  Re-enter password  Click register |
| As a registered user | I want to log in to my account | So that I can access my dashboard to manage and track my consultations and personal data | Click on dashboard  Manage data  Track booked consultations |
| As a user with disabilities | I want to access accessibility features | So that I can navigate through the website easily regardless of any disabilities | Click on accessibility features icon  Choose a prefers feature |
| As a visitor | I want to read about the company on an About us page | So that I can learn more about the company mission and services | Click on About us page  Read through the page |
| As a potential customer | I want to contact the company easily through contact us page | So that I can get more information on products and services or seek any help | Click on Contact us page  Read through the page |
| As a user | I want to view a FAQs guide page | So that I can find answers to common questions without needed to contact the support team | Click on contact us  Scroll down to FAQ’s  Read through the questions and answers |
| As a customer | I want to read about green energy | So that I can learn more about the available green energy products | Click on Learn More  Read through up-to-date information on green energy products |
| As a user | I want to book a consultation through an easy-to use-booking system | So that I can schedule a consultation at a time that is flexible for me | Click on Book consultation  Enter your first name  Enter your last name  Enter your home address  Choose the consultation type  Enter a date  Click on submit |
| As a customer | I want to read information on how to reduce my carbon footprint | So that I can understand how to reduce my impact on the environment | Click on Learn More  Read through how to reduce carbon footprint  Read through tips |
| As a customer | I want to book an installation through an easy-use booking system | So that I can schedule my installations without any confusion or issues | Click on Book installation  Enter your first name  Enter your last name  Enter your home address  Choose the installation type  Enter a date  Click on submit |
| As a user | I want to access a customer dashboard to track my data and manage my consultations or installations | So that I can stay updated on my upcoming consultations, installations or energy usage | Click on My profile  Navigate through the dashboard |
| As a user | I want to cancel my consultations | So that I can book them for other day because of any personal reasoning or emergencies | Click on My profile  Navigate to my consultations  Click on Cancel |
| As a old customer | I want to go to the settings page | So that I can reset my password | Click on login icon  Enter Email  Enter Password  Click on Settings icon   Click on reset password button   Enter old password   Enter new password |
| As a user | I want to calculate my carbon footprint | So that I can see how much I am affecting the environment and make better decisions | Click on Calculate button  Click on calculate carbon footprint  Fill in the required fields  Click on calculate  Read through the results  Visualize the chart |
| As a user | I want to calculate ad track my energy usage | So that I can keep my self-updated with my energy usage to make better decisions | Click on Calculate button  Click on Calculate energy usage  Fill in the required fields  Click on calculate  Read through the results  Visualize the chart |

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| --- | --- |
| **Functional requirements** | **Justification** |
| Home page | This is the home page that will contain a brief introduction to the website and will be the landing page of this website |
| Register page | The register page allows the users to create a personal account which gives them access to feature like tracking consultations and installations. This is important because the user needs to manage their booking from a dashboard and the user will need to login or register before they can book a consultation manage it from the user dashboard. |
| Login page | The login page provides a secure way for registered users to access their account. The login page is important because after they register the user will need to login and their data will be kept safe as it should be because of data laws such as GDPR. After logging in the user will eb able to track their consultations or installations and manage their profile such as password change, logout option or delete account option. |
| The accessibility features | Accessibility features will make sure that the website is usable for people with disabilities. This is crucial to meet the legal requirements and provides an equal user experience for all, regardless of their physical abilities. |
| About us page | The about us page helps users to understand the company missions, values and the important of green energy products. It will also help to build trust and transparency, allowing user to connect with the business and understand the company’s commitment |
| Contact us page | The contact us page gives the users a way to contact the company for support or help any inquiries. This is important as every business in the industry should maintain a good customer communication and providing assistance when users need help or have questions about services or products |
| FAQs guide page | The FAQ will have common questions and concerns with answers that users might have. It is important because it helps users to find answers and support without contacting the company which saves time and improve user experience. This page will be integrated on the contact us page where user can see the questions and also contact them if they need more help from the same page. |
| Information on Green energy products page | This page complies with the set task brief and it provides information on different products that are currently available in the market and how they help to reduce carbon footprint which helps people to make correct and informed decisions. |
| Information on how to reduce carbon footprint | Just like the green energy products page this also complies with the set task brief and it also provides information on how to reduce carbon footprint which also helps people to take better decisions and steps needed to keep the environment safe and clean. |
| Consultation booking page | This is a crucial page as it also complies with the set task brief. This will page will allow customers to easily schedule meetings. They can easily input their preferred time and consultation type. This will help customers to save time and they can easily track it and manage it from the dashboard. |
| Installation booking system | Just like the consultation booking system this also comply with the set task brief. This page also allow customers to easily book installations of different products. They can easily input their preferred time and product type. The price will not be included as it will be discussed on the phone call and depends on the home situation or anything that might affect the price. This will help customers to save time and they can easily track it and manage it from the dashboard. |
| Carbon footprint calculator | This page will allow user to access their environmental impact helping them to understand how their energy consumption is affecting the planet. They can enter their energy usage, gas and electricity and other required fields and calculate their carbon footprint and according to their inputs a result will be displayed showing a positive or negative affect which motivates the user to take staps towards reducing their carbon footprint and suing more sustainable and environmentally friendly products such as solar panels |
| Customer dashboard page | This page will allow user to manage their bookings and also cancel them if needed from this page. The dashboard page is essential for tracking purposes and managing personal data. This page only be accessible when the user logs in because each user will have different and unique information regarding to them. |
| Energy usage tracking tool page | This page also complies with the set task brief and allows the users to calculate their energy usage weekly or monthly and make decisions. This is important for identifying areas where users can reduce energy consumptions and it will help them to save energy costs and also it can affect the environment positively. This page will also provide tips guides regarding to their energy usage and also a chart that will display the result of energy usage weekly. |

## User acceptance criteria

**Home Page:**

* The user can access the home page and interact with it.
* The home page should give a brief, clear introduction about the website.
* The home page should be responsive so it looks good on phone and computers.
* The home page should be easy to navigate and have links to other important pages like register and login page.
* The user is redirected to home page after logging in/registering.
* The home page design should be clean and follow a simple structure.
* The page should be responsive so it works well with both computers and mobile phones.

**Register Page:**

* The user can access the register page and interact with it
* The user should be able to fill out their email address and password and create an account
* User should be able to go back to the login page after registering
* Passwords must be checked for specific criteria (e.g. must contain a number)
* Emails are checked for specific criteria (e.g. must contain the “@” symbol)
* An error message should be displayed if the password or email address are left blank or they don’t meet the minimum requirements
* The registration process should be simple and fast without too many steps
* The page should be responsive so it works well with both computers and mobile phones

**Login Page:**

* The user can access the log in page and interact with it
* User should log in with registered email address and password
* The email address and password must be correct and matching in the database or else an error will be displayed
* There should be an option to reset the password if the user forgets it
* The page should be secure and protect user’s information.
* After logging in the user must be redirected to the landing page (home page)
* The page should be responsive so it works well with both computers and mobile phones.

**About us Page:**

* The user can access the about us page and interact with it.
* The page should explain about the company’s mission and what they do and provide
* The page should be easy to read and understand
* The page should help user trust and connect with the company
* The page should be responsive so it works well with both computers and mobile phones.

**Contact us page:**

* The user can access the contact us page and interact with it
* The page should have a from where users can send questions or concerns
* User should get a confirmation message after submitting the form
* The page should show other ways to contact the company such as their email address or phone number
* The page should contain FAQ’s most common questions and answer that a user might have and they can access it and read through
* Users should be able to easily find the answers they are looking for
* The contact us page should be simple to navigate and clearly laid out
* The page should be responsive so it works well with both computers and mobile phones.

**Accessibility features:**

* The website should be easy to use for people with disability
* There must be at least 2 features for text and colour for example increasing the text and switching from light mode to dark mode.
* The website should work well with screen readers for visually impaired users.
* The page should be responsive so it works well with both computers and mobile phones.

**Information on green energy products page:**

* The user can access the page and interact with it
* The page should provide information about the green energy products available
* Users should understand how these products help the environment
* Information should include benefits and drawbacks of each product
* The page should eb easy to read with no complicated language
* The page should be responsive so it works well with both computers and mobile phones.

**Information on how to reduce carbon footprint page:**

* The user can access the page and interact with it
* The page should explain simple ways users can reduce their carbon footprint
* The page should give practical tips that user can follow
* The information should be easy to understand and not too technical
* The page should encourage users to take action to help the planet
* It should be accessible from the main menu and easy to find
* The page should be responsive so it works well with both computers and mobile phones.

**Consultation booking page:**

* The user can access the page and interact with it
* Users should be able to select a consultation type and date
* After booking a consultation, user can manage the booking from the user dashboard
* User should be able to cancel their consultation from the dashboard
* The page should be simple to use
* The page should be responsive so it works well with both computers and mobile phones.

**Installation booking page:**

* The user can access the page and interact with it
* The user be able to book an installation by selecting the product and date just like consultation booking
* After booking an installation, user can manage the booking from the user dashboard
* User should be able to cancel their booking from the dashboard
* The page should be simple to use
* The page should be responsive so it works well with both computers and mobile phones.

**Carbon footprint calculator:**

* The user can access the page and interact with it
* The user should be able to enter their energy use, gas and electricity information
* The user can click on calculate button and the results should show their carbon footprint impact
* The result should tell the user whether their impact is positive or negative
* The page should also give tips to reduce their carbon footprint
* The page should be simple to use with clear instructions
* The page should be responsive so it works well with both computers and mobile phones.

**Customer dashboard page:**

* The user can access the page and interact with it
* The dashboard should show all the user’s booked consultations and installations
* The user should be able to manage or cancel their bookings from this page
* Only logged-in users should be able to access their dashboard
* The page should be easy to navigate and easy to read
* The page should be responsive so it works well with both computers and mobile phones.

**Energy usage tracking page:**

* The user can access the page and interact with it
* User should be able to enter their energy usage data weekly or monthly
* The page should show energy usage in simple line chart
* Users should be able to see their energy usage in easy-to-understand format
* The users should enter their energy and gas usage and calculate their weekly or daily energy usage to make better decisions
* The page should provide tips on how to use less energy and protect te environment
* The page should be responsive so it works well with both computers and mobile phones.

## Proposed solution:

To solve the issues faced by many people, we will create a digital solution that provides all the necessary tools and information in all-in-one website.

The website will have a home page where user can interact with the navigation bar and different links for them to access. There will be Learn more link that user can access that will offer clear and easy to understand information about green energy products available in the market, that can help the customer to better decisions and reduce their carbon footprint.

We will also create an easy-to-use online booking system for consultations and installations that will allow the customers to quickly schedule the services without calling the company which saves a lot of time for them and increase user experience. To manage and track these bookings we will provide an account registration system for them to register and log in and once they log in they will be able to access the dashboard where user can simply cancel or manage their bookings.

For users to learn about their carbon footprint we will include a carbon footprint calculator, so customers can easily calculate their carbon footprint and they can learn about the impact they are making to the environment and understand the benefits of switching to energy efficient products.

To meet the business requirement, we will develop an energy usage tracking tool that will allow customers to monitor their energy consumption over time which helps them understand the areas where they can reduce the energy usage and make better choices.

This solution will not only make it easier for customers to access the information and services they need but also help them make environmentally-friendly decisions, all within a simple, efficient, and accessible online experience.

## Non-Functional requirements

**Performance**

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| --- | --- | --- |
| Non-Functional requirement | Justification | KPI |
| The website should load quickly and smoothly | Fast loading times are important for keeping users engaged. If the page takes too long to load, users may leave the site which might result in poor user experience. | Page load time should be no more than 3 seconds for all pages |
| There should be no delays when interacting with the website | Immediate responses to user actions are necessary for a smooth experience. Any delay in navigation or input could cause frustration. | No complaints about lad or delays during interactions such as form submission or navigating between pages |
| Interactive pages and content should load instantly | Interactive elements such as booking forms should load instantly to make sure users can complete tasks without waiting which increases user experience | Interactive pages should load within 2 seconds to keep users engaged |
| Data should update quickly when changes are made | Quick updates are important to avoid confusion and ensure that users always see the most current information, such as bookings or account details. | Data updates should be reflected within 1 second of input. |
| Calculations and results should quickly load and get displayed (carbon footprint calculator) | Faster result processing makes sure that users receive correct information as fast as possible, enabling them to make informed decisions more efficiently. | The calculation logic and results display should be completed within 3 seconds. |

**Security**

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| --- | --- | --- |
| Non-Functional requirement | Justification | KPI |
| The website should protect user data from unauthorized access | Protecting user data is crucial which makes this website follow the protection laws such as GDPR. Secure storage and transmission prevent data to be stolen or leaked keeping the user’s personal information safe such as email address and password | All sensitive data should be encrypted to keep it safe  There should be no reports or complains about private data being leaked for 1 year  The website should follow all privacy laws |
| The login process must be secure | Making sure that only authorized users can access their account helps prevent unauthorized actions or data leaks | Users should not be able to log in without providing valid credentials |
| User password must be stored securely | Storing password securely ensures that even if the database is hacked or compromised, the sensitive information remains safe | Passwords should be hashed before storing in the database |
| There should be regular security updates | By doing regular security updates will make sure that the system remains secure and protected | Security updates should be done very 2 months and the passwords for admin login should be changed every 2-3 months |

**Scalability**

|  |  |  |
| --- | --- | --- |
| Non-Functional requirement | Justification | KPI |
| The website should handle more users as traffic on the server increases | As more users visits the site, the system must be able to handle the increase load without crashing or slowing down | The system should support up to 1000 users at a time without performance issues |
| The system should not crash, glitch or slow down after adding new features | The website must be developed to handle new features if they get added in the future without negatively affecting the performance of the website | The website should not crash or slowdown after introducing and developing new features |
| The system should be able to handle an increase in data storage | As the number of users increases, more data will need to be stored. The system must be able to handle larger database without losing performance | The system should not cause errors or slow down when the storage of database increases |
| The website should be easy to update and maintain (code) | The website should be easy for developer to maintain and update as technology develops in the future | The website should allow developers to easily update code or add features without major system changes. |

**Capacity**

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| --- | --- | --- |
| Non-Functional requirement | Justification | KPI |
| The website should support many users at the same time | This makes sure that the website performance is smooth even during busy periods so the website must handle large numbers of users without crashing | The website should handle 500+ users at once without performance issues |
| The website must allow many users to register at once | The more users register on the website more load will be increased on the server but the server should not crash or delay or slowdown as it will affect the user experience | The system should store and process many registered users at once without any problems |
| The website should support high volumes of booking requests | Many people will try to book consultations or installations at the same time so to keep them engaged the serve should not slow down at any time | The booking system should handle at least 50 booking request without failure at the same time |

**Reliability**

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| --- | --- | --- |
| Non-Functional requirement | Justification | KPI |
| The website must be reliable and available 24/7 | Reliability is very important because it makes sure that users can access the website at any time without downtime | The website should have an uptime of 99.9% or higher over the course of 1 year  The website should not crash at any time  No complaints about downtime of more then 5 minutes every 2 months |
| The website should recover quickly from any failure or crash | A reliable recovery process ensures that users do not experience long downtime or any interruptions in service. | Recovery time from any system failure should be less than 10 minutes |
| The system should provide correct and up to date information | Users are relied on accurate data about green energy products or tips to reduce carbon footprint so they need to stay up to date with the information to make informed decisions | Data must be consistent across all the pages and calculations  Information needs to be checked and updated everyday |
| Backup of the system and the code should be taken regularly and when new feature is introduced | Regular backups ensure data and code is available in case of system failure which makes it easy to quickly use the backup code and run the site again without any issues | Backups should be done daily and stored in a secure location |

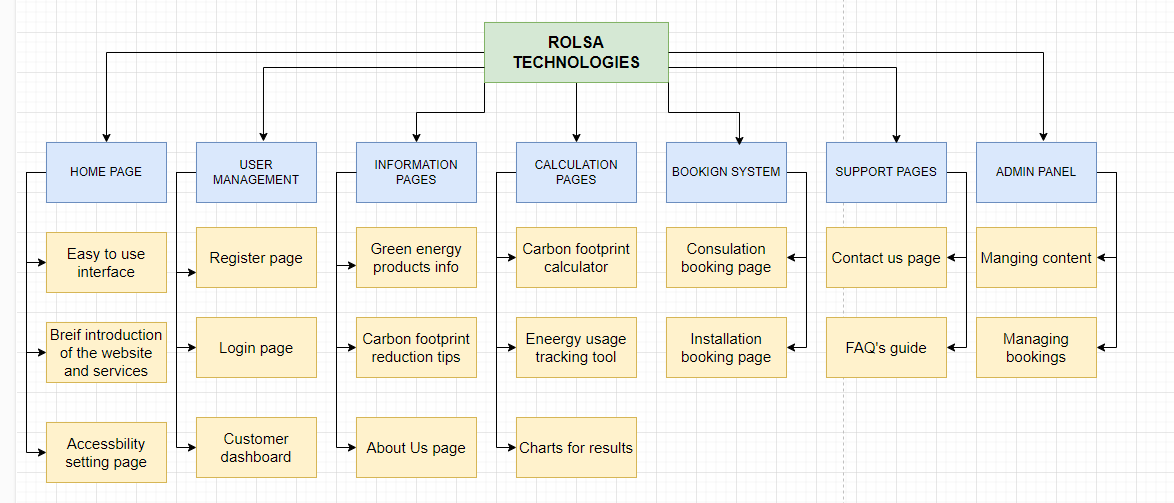
**Usability**

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| --- | --- | --- |
| Non-Functional requirement | Justification | KPI |
| The website must be easy to use and navigate | This makes sure that users can use the website without confusion or any issues which increases user experience | There should be no report of website being hard to use for the first 5-6 months |
| The website must have a clear instruction for all user actions | Clear instructions will help users understand how to interact with different features which improves user experience | All user actions such as booking, calculations should be easy to use with prompts on what to do to get the results which helps guide the user |
| The website must allow users to complete tasks with minimal efforts | This will make the user mire engaged with the site and satisfied | Users should be able to complete key tasks such as booking or calculating carbon footprint in less then 5 minutes |

**Accessibility**

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| --- | --- | --- |
| Non-Functional requirement | Justification | KPI |
| The website should support accessibility features for users with disabilities | This will make sure the website is useable for a wider audience including users with disabilities such as visual or hearing problems | The website must comply with WCAG 2.1 Level AA standards for accessibility  The website must have accessibility feature for most of the pages  There should be no complaint about accessibility feature failure |
| The website should support screen readers for visually impaired users | This will make sure users with visual impairments can interact with and navigate the website | All texts, images and interactive elements and pages must be compatible with screen readers with no missing or misread content |
| The website must allow users to adjust font size and colour contrast | This allows users to adjust the website to their needs and making sure its readable for everyone | The user must be able to adjust the font size and toggle between dark and light modes |
| The website must be responsive and works on both computer and mobile | This makes sure the website is accessible to as many users because nowadays most users access the website on their mobile phones so they can also use the website while they are outside where they don’t have access to computer | The website should be fully functional and readable on all screen sizes  There should be no complaint about the website not working on different screens |

## Hierarchy diagram



**Justification**

**Home page-** It is a landing page which includes brief introduction to the website with different services that company provides and links to navigate between different pages. It also contains an accessibility settings icon to choose different settings

**User management** – Users can register or login to save their booking details. This lets them manage their bookings from the dashboard

**Information pages –** These pages teach users about green energy products and how to reduce carbon footprint. Users can use this information before they book any services or any product

**Calculation pages** - Users can calculate their carbon footprint and track energy usage. This helps them see how they affect the environment and why green energy is better. For visual results charts will display overtime results which makes it easy for users to understand their tracking

**Booking system** – After learning about green energy products and services users can book consultations and installations. They can select dates that work for them and manage these bookings from the dashboard (user will need to log in before they can book a consultation)

**Support pages –** These pages will help users to contact the company or find answers to common questions using FAQ’s guide. This builds trust and improves the user experience.

**Admin Panel** – A backend feature for managing content and user bookings only accessible to admins.

## UI considerations

**Colour theme**

For the overall colour scheme of my website, I will use calming and eco-friendly colours to represent the theme of green energy products and clean environment. Green will be used buttons to represent nature, eco-friendly and calmness. Light blue and grey colours will be used in most of the pages which represent peaceful and fresh atmosphere. For the background I will use white as it meets industry standards to keep the design clean and simple making sure the website is easy to read and navigate. For the text on my website will be black to ensure high contrast and easy to read for users. For important tips or warning I will user red to grab user’s attention making sure that the most important message stands out such as if they carbon footprint is very high will be displayed in red. This combination of colours will help make the site visually appealing an create a relaxed and nature inspired theme for the users and clean user-friendly design.

**Target audience**

The website will have a wide range of users. It will focus on people who are interested in green energy, saving energy, and reducing their carbon footprint. From my research I found out that home and business owners are the largest audience for green energy products or website like this that helps them go green and help the environment. The website will also be useful for people who want to educate them self on how to reduce their carbon footprint to reduce their negative impact on the environment.

Our target audience includes:

* **General public**: People who want to learn about green energy products and tips and ways to reduce their carbon footprint.
* **Homeowners**: People who want to make their home more energy affiance and also book consultations it or even installation of different products.
* **Business owners**: Companies looking for ways to save energy and go green such as factories or warehouses
* **Eco-friendly consumers**: People who want to make better and environment-friendly choices to their daily lives and save the planet
* **Local communities**: People that are working together to be more eco-friendly.

## Security considerations and risk mitigations

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| --- | --- |
| Potential risks | How to mitigate |
| Unauthorized access to user accounts | Use strong encryption for storing passwords (hashing) and add extra protection like multi-factor authentication (MFA) |
| Data breach during registration or login process | Make sure all the data is encrypted with HTTPS when users sign in or register |
| Weak passwords | Ask users to create strong passwords with minimum requirement such as numbles, letters and symbols which will help them to have secure password |
| Denial of service attack (DoS) | Have backups servers ready to handle high traffic without crashing  Use firewall to block unauthorized traffic  Use CAPTCHA tests to make sure real users access the site (only if needed) |
| Insecure booking system | Protect the booking process by using secure encryption when user enters their information |
| Inaccurate information on the website | Make sure data comes from reliable and trusted resources to make sure the users get accurate and up-to-date information |
| Malware or viruses | Keep the website up to date  Use anti-virus software to keep system and the solution safe from viruses or harmful malwares |
| Broken links or errors on different pages | Regularly test all pages to ensure they are accessible and display correctly. |
| Accessibility features not working | Regularly test and update accessibility features like text adjustment colour contrast to ensure they meet the guidelines for people with disabilities |
| Incorrect results from carbon footprint calculator | Regularly check the formula used in the calculate and ensure its correct and accurate |
| Unprotected personal data | Encrypt all the user data such as their name, address  Keep only necessary data to keep the system safe  Only ask necessary details from the user to protect user privacy |
| Broken access controller to customer dashboard page | Unauthorized users might access or modify data such as customers private dashboard  Implement a role bases access controller to make user users only access their own data so they can see other people’s dashboard (users who are logged in) to keep the data secure |
| Unauthorized admin access | Emails and password must be very secure for admin to access the bookings that user have sent and allow only specific admins to access certain information |
| Admin mistakes such as deleting or changing data | An admin might accidently delete or change important bookings of data  Add a confirmation step before delete or changing anything and keep back-ups of all data |
| Natural disasters (power outages, flooding, server failures or earthquakes) | Use cloud hosting with backups  Regularly backup the data to keep it safe  Host servers in multiple locations different areas to reduce risk of complete failure |

## Legal and regulatory guidelines

When users register their account to track energy usage, book consultations or calculate their carbon footprint, their personal data is collected. To make sure this is done legally the website must follow GDPR guidelines. User’s sensitive data such as their name, home address and phone numbers must be kept safe. To make sure we follow GDPR laws we need user’s consent before collecting data and they must have the right to access, update or delete their information and the company must follow their request and dele or update the data in 1 month without breaking the law. This law will help store the users data safely and by following it the company will be legal and avoid fines or penalties.

When user registers or logs in they create a password, because of this it is crucial for the company to follow Computer Misuse Act 1990 by using security measures like firewalls, encryption or two-factor authentication to prevent hacking.

Since our website provides environmental and energy saving advice, it must follow Electronic Commerce Regulations 2022 because they ensure that the website provides clear and honest information the user. The website musty clearly display accurate up-to-date information about green energy products which are available in the market.

To make sure the website is accessible to everyone including people with disabilities. The website must follow the Equality Act 2010 and Web Content Accessibility Guidelines (WCAG) by providing features like text-to speech support, toggle between dark mode and light mode, keyboard navigation and text size adjustments. These features makes sure that users with visual or hearing impairments can easily use the website.

Not only general computing laws, the website must follow industry specific regulations also. This website promotes sustainable energy solutions, it should comply with industry rules and laws like Climate Change Act 2008 which helps encourage business to provide reliable and eco-friendly information. By following these regulations, the website guarantee that users get accurate and trusted information that meets industry and professional standards.

By following these legal and regularity guidelines, the website can operate legally and openly by protecting user data and providing correct and up-to-date information.