

**ISA**  
**REGULATION RESOURCE**  
**REPOSITORY ON SOLAR ENERGY**  
**USER HELP MANUAL**  
**(Version 1.0)**  
**(12 February 2025)**

## TABLE OF CONTENTS

TABLE OF CONTENTS.....	II
LIST OF FIGURES .....	III
LIST OF TABLES.....	IV
LIST OF ACRONYMS.....	V
1 INTRODUCTION.....	6
1.1 Background.....	6
1.2 About The Portal.....	6
1.3 About The User Manual.....	6
2 PORTAL FUNCTIONALITIES .....	8
2.1 User Registration Process.....	8
2.2 Accessing Resource Materials .....	11
2.3 Search Functionality .....	17
2.4 Chatbot.....	18
2.5 About The Repository .....	19
2.6 Frequently Asked Questions (FAQs).....	20
2.7 Feedback .....	21
2.8 Contact Us.....	22
2.9 Major Themes.....	23
2.10 News & Updates.....	24
2.11 User Manual & Video Guides .....	24

## LIST OF FIGURES

Figure 1: Hamburger Menu .....	8
Figure 2: Login Option.....	8
Figure 3: Login Window Page .....	9
Figure 4: Registration Page .....	9
Figure 5: Verification Email .....	10
Figure 6: User Dashboard .....	10
Figure 7: Password Reset Option .....	11
Figure 8: Database Menu .....	13
Figure 9: Database Page .....	14
Figure 10: Document Access.....	15
Figure 11: Document Download and Associated Meta tags .....	16
Figure 12: Downloading the document .....	17
Figure 13: Search Window .....	18
Figure 14: Chatbot .....	18
Figure 15: Chatbot window .....	19
Figure 16: About Repository - Menu.....	19
Figure 17: About Repository - Page .....	20
Figure 18: FAQs Menu .....	20
Figure 19: FAQs Page.....	21
Figure 20: Feedback Menu .....	21
Figure 21: Feedback Page.....	22
Figure 22: Contact Us Menu .....	22
Figure 23: Contact Us Page .....	23
Figure 24: Major Themes Window .....	23
Figure 25: News & Updates section .....	24
Figure 26: Need a Guide? Start Here.....	24
Figure 27: User Manual & Video Guides.....	25

**LIST OF TABLES**

Table 1: Hierarchical Taxonomy Structure ..... 11

## LIST OF ACRONYMS

Acronyms	Definition
FAQ	Frequently Asked Questions
ISA	International Solar Alliance

## **1 INTRODUCTION**

### **1.1 BACKGROUND**

The International Solar Alliance (ISA) is committed to facilitating the global transition to sustainable and renewable energy sources, by making solar the preferred choice. ISA recognizes that regulations play a pivotal role in shaping the energy landscape of a nation and believes that by drawing inspiration from successful regulatory frameworks of a country, another country can lay the foundation for a brighter, more sustainable future.

As a testament to this commitment, the ISA has spearheaded the project to collate laws, regulations, policies, guidelines, judgements, technical standards, publications and reports relating to the regulatory environment in ISA's member countries and make them available in this Regulation Resource Repository on Solar Energy. These resources have been meticulously gathered to serve as a comprehensive and valuable knowledge hub, promoting the development and harmonization of solar regulations worldwide.

ISA's primary aim is to provide this repository for the benefit of its member countries, academicians, experts, and the public at large. Whether you are an official in a member nation, an academic seeking invaluable research material, an expert in the field, or a concerned citizen interested in the future of sustainable energy, this platform is designed to be your go-to resource. ISA aims to harness the power of knowledge and collaboration to drive solar energy adoption and contribute to a greener, more sustainable planet.

### **1.2 ABOUT THE PORTAL**

The ISA Regulation Resource Repository portal aims to serve as a single window platform to provide all law, regulations, policies, guidelines etc relevant to the solar energy sector related to ISA member countries. It serves to facilitate understanding of the complex regulatory landscape, promoting compliance with established standards. This repository supports research efforts and provides valuable insights for researchers, policymakers, and industry experts.

### **1.3 ABOUT THE USER MANUAL**

The ISA Regulation Resource Repository Portal User Manual is a comprehensive guide that facilitates seamless user engagement with the platform. It covers essential functionalities such as user registration and login, collaborative contribution features, and detailed navigation instructions for the extensive database, which includes Laws, Regulations and Policies, Publications, and Technical Standards. The manual also addresses user queries through a dedicated FAQs section, provides insights into the repository's purpose on the "About the Repository" page, and encourages user feedback via a designated page. Users can reach out through the Contact Us page. Major Themes offer a thematic overview, and the News and Updates section keeps users informed about the latest developments. This user-centric guide ensures that stakeholders, including researchers, policymakers, and industry experts, can effectively leverage the repository for valuable insights into the regulatory landscape of the solar energy sector.

The User Manual acts as a comprehensive guide, empowering users to navigate, contribute, and derive maximum benefit from the ISA Regulation Resource Repository Portal, thereby fostering collaboration and knowledge dissemination within the solar energy community.

This user manual covers the following chapters and provides a detailed explanation for each action point:

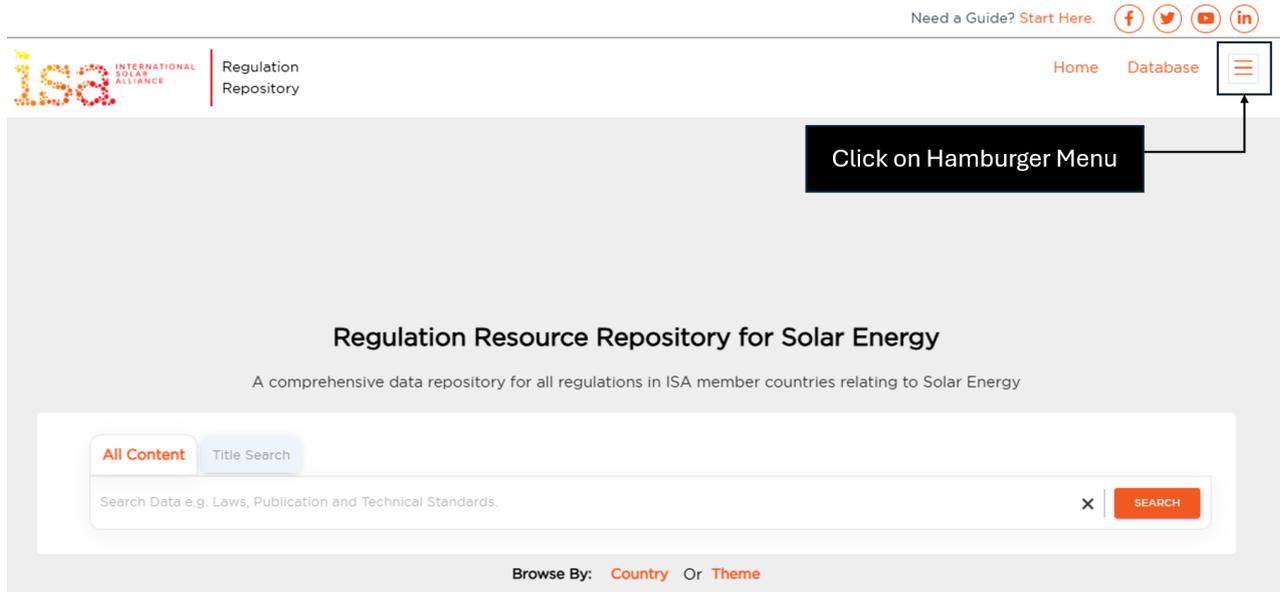
- Register and Login Functionality
- Database (Laws, Regulations and Policies, Publications, Technical Standards)
- FAQs Section
- About the Repository Page
- Feedback Page
- Contact Us Page
- Major Themes (Laws, Regulations and Policies, Publications, Technical Standards)
- News and Updates

## 2 PORTAL FUNCTIONALITIES

This section outlines the online registration procedure for users seeking to utilize the collaboration functionality and download documents available on ISA Regulation Resource Repository Portal. The user shall mandatorily register themselves on the portal to download any document.

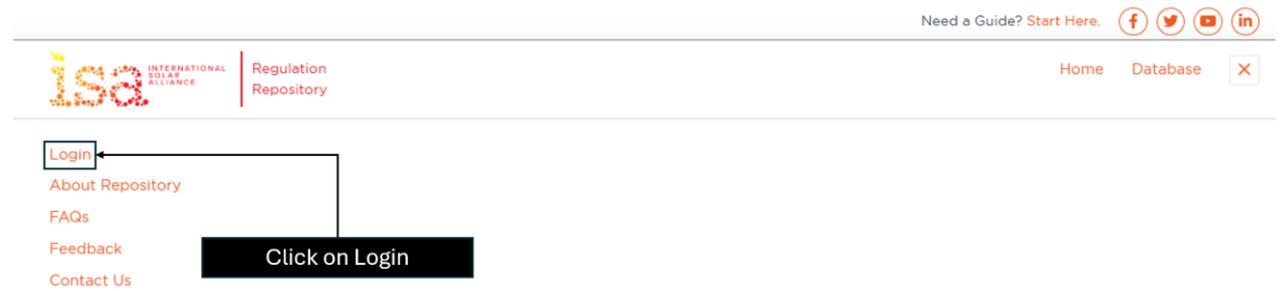
### 2.1 USER REGISTRATION PROCESS

Step 1. Access the website ISA Regulation Resource Repository Portal [Link](#). The Home page of the portal will be displayed as shown below. Click on the Hamburger menu as shown below.



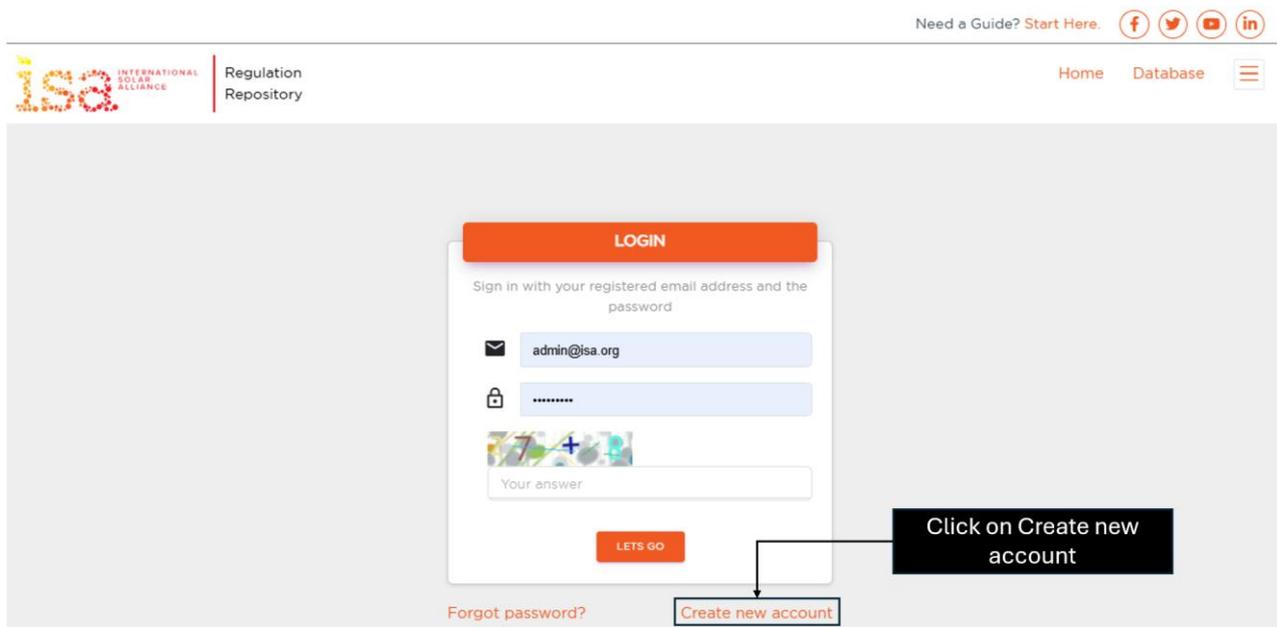
**Figure 1: Hamburger Menu**

Step 2. After clicking on the Hamburger Menu, the menu window will expand. The user shall then click on "Login" option as shown below.



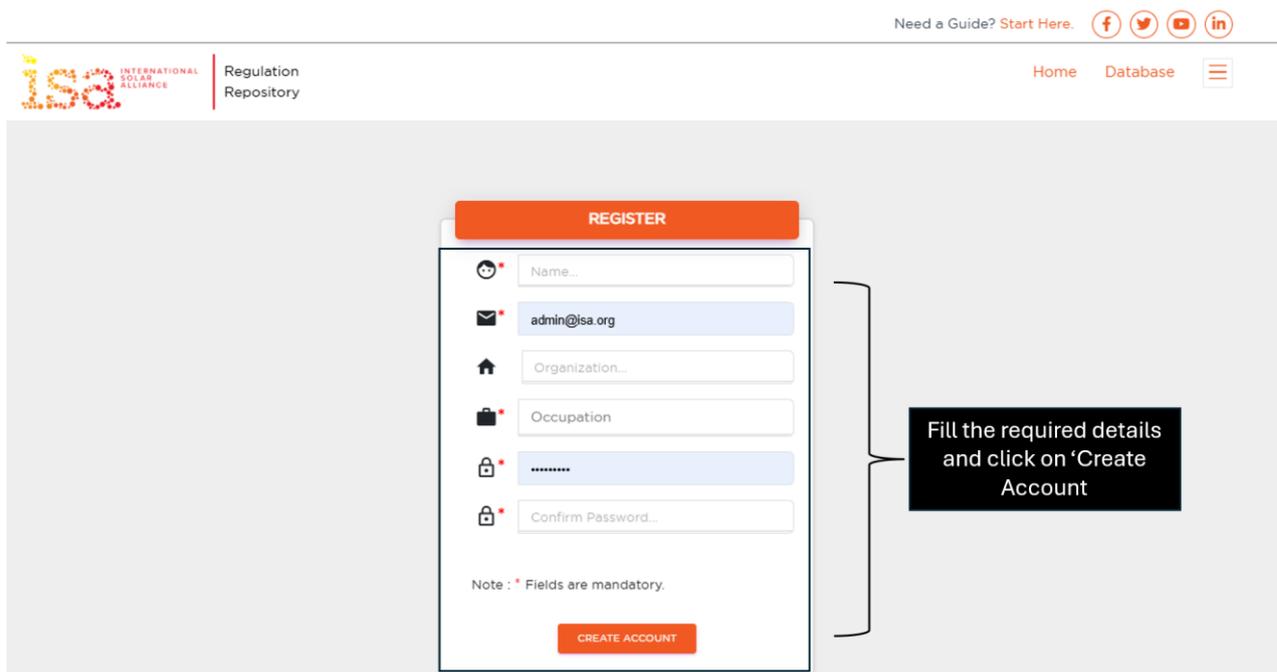
**Figure 2: Login Option**

Step 3. The Login page shall open. The user shall then click on "Create an Account" as shown below.



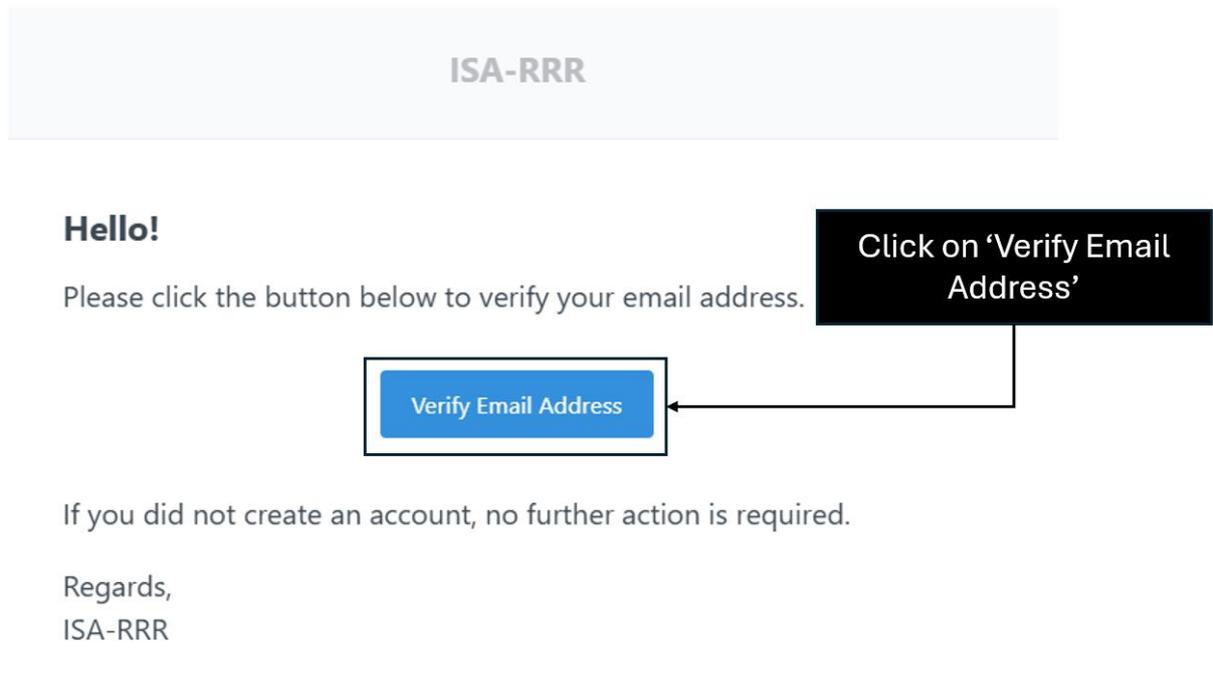
**Figure 3: Login Window Page**

Step 4. The user shall be directed to the Register window page, where the user needs to fill in the required details and click on “Create Account” as shown below.



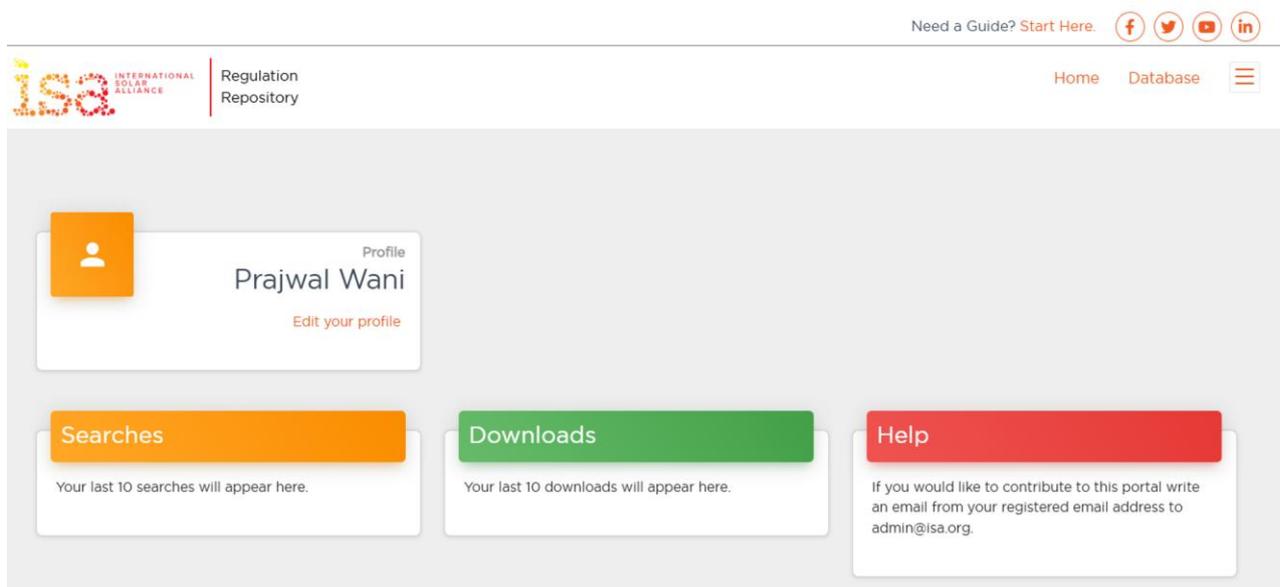
**Figure 4: Registration Page**

Step 5. The user shall then receive a verification email on registered email id. The user needs to click on “Verify Email Address” as shown below. Once verified the user can now Login and access the various functionalities on the portal, such as downloading a document or writing a view piece.



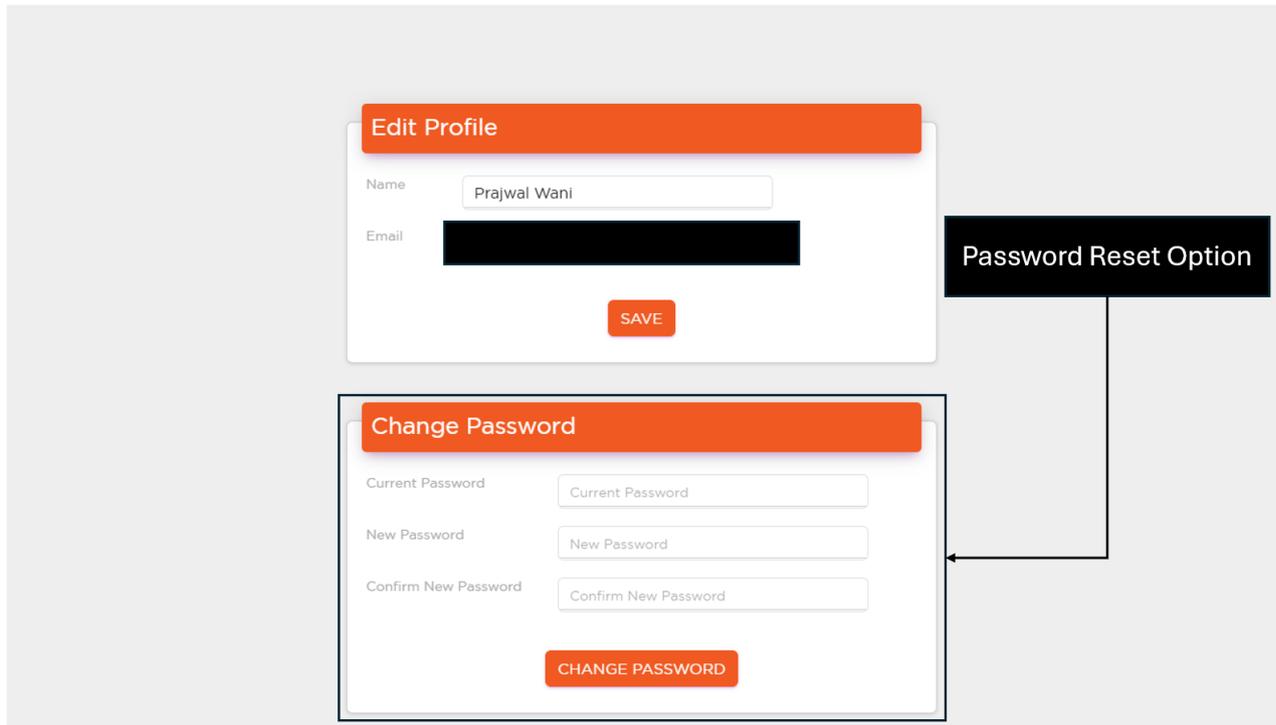
**Figure 5: Verification Email**

Step 6. After logging onto the portal, the user shall be directed to the Dashboard window as shown below.



**Figure 6: User Dashboard**

Step 7. The user can reset the password by clicking on “Edit Your Profile” option under the Profile window as shown below. After entering the current password and new password, click on Change Password to change the password.



**Figure 7: Password Reset Option**

## 2.2 ACCESSING RESOURCE MATERIALS

The Users can access the various documents available on the portal through the Database menu. The Database Menu is located in the top menu bar as shown in below figure. It offers users a structured approach to access a diverse range of clean energy resources. With categories such as laws, regulations, policies, publications, technical standards, reports, case studies, and more as depicted in Table below. Users can easily navigate and explore specific types of content relevant to their clean energy research or policymaking needs.

The Database Menu provides an organized and user-friendly interface to facilitate efficient exploration and utilization of the repository's extensive clean energy resource collection. The User registration is must to download any document. The steps to download the document are explained below.

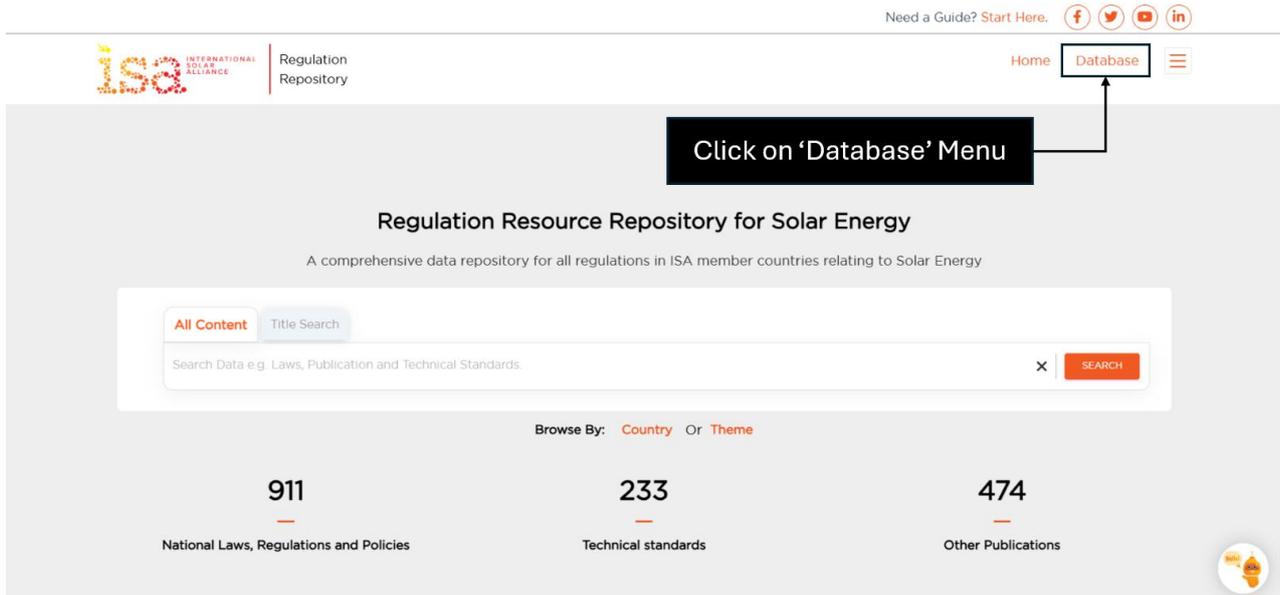
**Table 1: Hierarchical Taxonomy Structure**

Major Themes	Themes	Sub-Themes
<b>Laws, Regulations And Policies</b>	Energy Laws & Regulations	<ul style="list-style-type: none"> <li>• Acts</li> <li>• Laws</li> <li>• Regulations &amp; Regulatory tools Judgments</li> </ul>
	Plans, Policies & Programmes	<ul style="list-style-type: none"> <li>• Policies</li> <li>• Strategies &amp; roadmaps</li> </ul>

		<ul style="list-style-type: none"> <li>• Guidelines</li> <li>• Missions</li> <li>• R&amp;D programmes</li> </ul>
	Tariff Policies and Framework	<ul style="list-style-type: none"> <li>• Tariff</li> <li>• Tax structure</li> </ul>
	Fiscal Frameworks	<ul style="list-style-type: none"> <li>• Investment</li> <li>• Subsidies</li> </ul>
	Financial Regulations	<ul style="list-style-type: none"> <li>• Financial mechanism</li> <li>• Financial incentives</li> <li>• Loans</li> <li>• Financing model</li> </ul>
	Antitrust and Competition Legislations	<ul style="list-style-type: none"> <li>• Competing markets</li> <li>• Anti-Competitive practices</li> <li>• Licencing</li> <li>• PPP Models</li> </ul>
	Environmental Frameworks	<ul style="list-style-type: none"> <li>• Environmental tribunals</li> <li>• Environmental regulations &amp; Acts</li> </ul>
<b>Publications</b>	Research Papers	<ul style="list-style-type: none"> <li>• Solar Rooftop</li> <li>• Solar Mini grid</li> <li>• Floating Solar</li> <li>• Solar for Agricultural Use</li> <li>• Solar Projects Finance</li> <li>• E-mobility</li> <li>• Storage</li> <li>• Green Hydrogen</li> <li>• Electricity Generation</li> <li>• Electricity Transmission</li> <li>• Electricity Distribution</li> <li>• Solar Panels</li> <li>• Solar Cells</li> <li>• Solar Business Model</li> <li>• Solar Investments</li> <li>• Solar Regulations</li> <li>• Commentary</li> </ul>
	Case Studies	
	Thesis/Dissertation	
	Opinions	
	Books	
	Reports	
<b>Technical Standards</b>	Product standards Process standards	<ul style="list-style-type: none"> <li>• Solar Rooftop</li> <li>• Solar Minigrid</li> <li>• Floating Solar</li> </ul>

		<ul style="list-style-type: none"> <li>• Solar Pumps</li> <li>• E-mobility</li> <li>• Storage</li> <li>• Green Hydrogen</li> <li>• Electricity Generation</li> <li>• Electricity Transmission</li> </ul>
--	--	--

Step 1. Click on the “Database” menu on the Homepage as shown below.



**Figure 8: Database Menu**

Step 2. The user will be guided to the Database page, as depicted below. Utilizing the search window, users can locate the desired document. Additional filtering options are available on the left side to narrow down the search, including options such as filtering by Publication Year, Continent, Country, Theme, and Sub-theme.

**Figure 9: Database Page**

Step 3. Click on the title of the document to go to download page or to access further meta tags associated with the document. On clicking the document name the user shall be directed to the login/register page. Type in the registered email id and password to log in and click on **Let's Go** button. After logging in the user shall be directed to the following page.

**DATABASE**

All Content Title Search

Search Data e.g. Laws, Publications and Tech **Click on 'Title' of document** SEARCH

**Filter By**

Publication Year

1900 - 2023

Country

- Africa (621)
- Asia (389)
- Europe (366)
- North America (402)
- Oceania (314)
- South America (215)

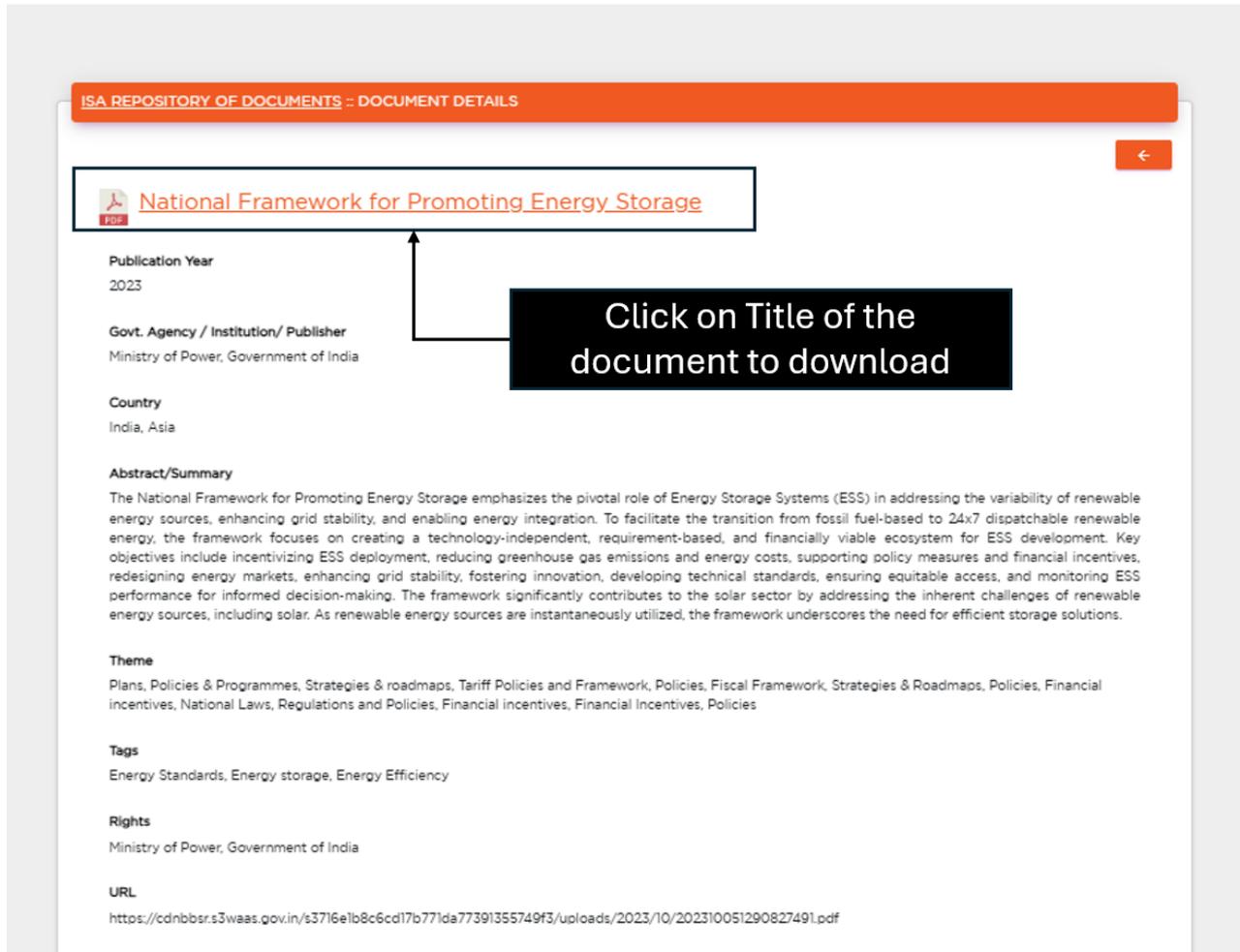
**National Framework for Promoting Energy Storage**

2023  
Ministry of Power, Government of India  
India  
The National Framework for Promoting Energy Storage emphasizes the pivotal role of Energy Storage Systems (ESS) in addressing the variability of renewable energy sources, enhancing grid stability, and enabling energy integration. To facilitate the tr...  
National Laws, Regulations and Policies Financial Incentives Policies Strategies & roadmaps Financial Incentives Policies  
Financial Incentives Policies Strategies & Roadmaps Fiscal Framework Plans, Policies & Programmes  
Tariff Policies and Framework

**Energy Independence and Security Act, 2007**

2023  
US Department of the Treasury  
United States of America  
The Act is a comprehensive piece of US legislation that encompasses various facets of energy policy. In relation to solar energy, the Act outlines provisions aimed at advancing solar technologies. Notably, it establishes targets for federal agencies...  
National Laws, Regulations and Policies Laws R&D programmes Regulations & Regulatory tools Laws

**Figure 10: Document Access**

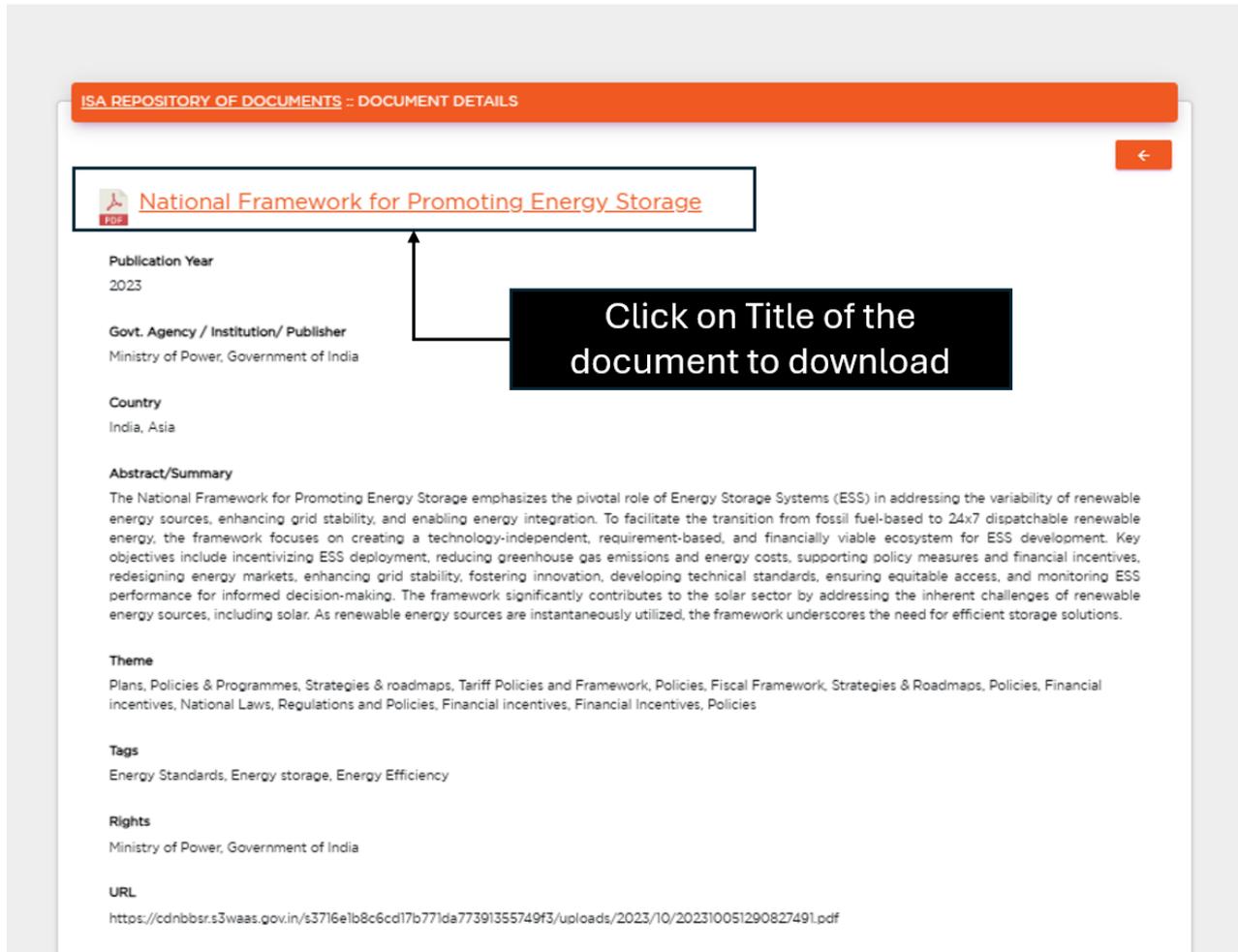


The screenshot shows the document details page for the 'National Framework for Promoting Energy Storage'. The title is highlighted with a black box and a callout bubble that says 'Click on Title of the document to download'. The page includes the following meta tags:

- Publication Year:** 2023
- Govt. Agency / Institution/ Publisher:** Ministry of Power, Government of India
- Country:** India, Asia
- Abstract/Summary:** The National Framework for Promoting Energy Storage emphasizes the pivotal role of Energy Storage Systems (ESS) in addressing the variability of renewable energy sources, enhancing grid stability, and enabling energy integration. To facilitate the transition from fossil fuel-based to 24x7 dispatchable renewable energy, the framework focuses on creating a technology-independent, requirement-based, and financially viable ecosystem for ESS development. Key objectives include incentivizing ESS deployment, reducing greenhouse gas emissions and energy costs, supporting policy measures and financial incentives, redesigning energy markets, enhancing grid stability, fostering innovation, developing technical standards, ensuring equitable access, and monitoring ESS performance for informed decision-making. The framework significantly contributes to the solar sector by addressing the inherent challenges of renewable energy sources, including solar. As renewable energy sources are instantaneously utilized, the framework underscores the need for efficient storage solutions.
- Theme:** Plans, Policies & Programmes, Strategies & roadmaps, Tariff Policies and Framework, Policies, Fiscal Framework, Strategies & Roadmaps, Policies, Financial incentives, National Laws, Regulations and Policies, Financial incentives, Financial Incentives, Policies
- Tags:** Energy Standards, Energy storage, Energy Efficiency
- Rights:** Ministry of Power, Government of India
- URL:** <https://cdnbbsr.s3waas.gov.in/s3716e1b8c6cd17b771da77391355749f3/uploads/2023/10/202310051290827491.pdf>

**Figure 11: Document Download and Associated Meta tags**

Step 4. To download the document click on the Title of the document as shown below. The downloading shall start.



The screenshot shows the 'Document Details' page for the document 'National Framework for Promoting Energy Storage'. The page includes a title, publication year (2023), publisher (Ministry of Power, Government of India), country (India, Asia), abstract/summary, theme, tags, rights, and URL. A black callout box with white text 'Click on Title of the document to download' has an arrow pointing to the document title. A red arrow icon is visible in the top right corner of the document details area.

**ISA REPOSITORY OF DOCUMENTS - DOCUMENT DETAILS**

 [National Framework for Promoting Energy Storage](#)

**Publication Year**  
2023

**Govt. Agency / Institution/ Publisher**  
Ministry of Power, Government of India

**Country**  
India, Asia

**Abstract/Summary**  
The National Framework for Promoting Energy Storage emphasizes the pivotal role of Energy Storage Systems (ESS) in addressing the variability of renewable energy sources, enhancing grid stability, and enabling energy integration. To facilitate the transition from fossil fuel-based to 24x7 dispatchable renewable energy, the framework focuses on creating a technology-independent, requirement-based, and financially viable ecosystem for ESS development. Key objectives include incentivizing ESS deployment, reducing greenhouse gas emissions and energy costs, supporting policy measures and financial incentives, redesigning energy markets, enhancing grid stability, fostering innovation, developing technical standards, ensuring equitable access, and monitoring ESS performance for informed decision-making. The framework significantly contributes to the solar sector by addressing the inherent challenges of renewable energy sources, including solar. As renewable energy sources are instantaneously utilized, the framework underscores the need for efficient storage solutions.

**Theme**  
Plans, Policies & Programmes, Strategies & roadmaps, Tariff Policies and Framework, Policies, Fiscal Framework, Strategies & Roadmaps, Policies, Financial incentives, National Laws, Regulations and Policies, Financial incentives, Financial Incentives, Policies

**Tags**  
Energy Standards, Energy storage, Energy Efficiency

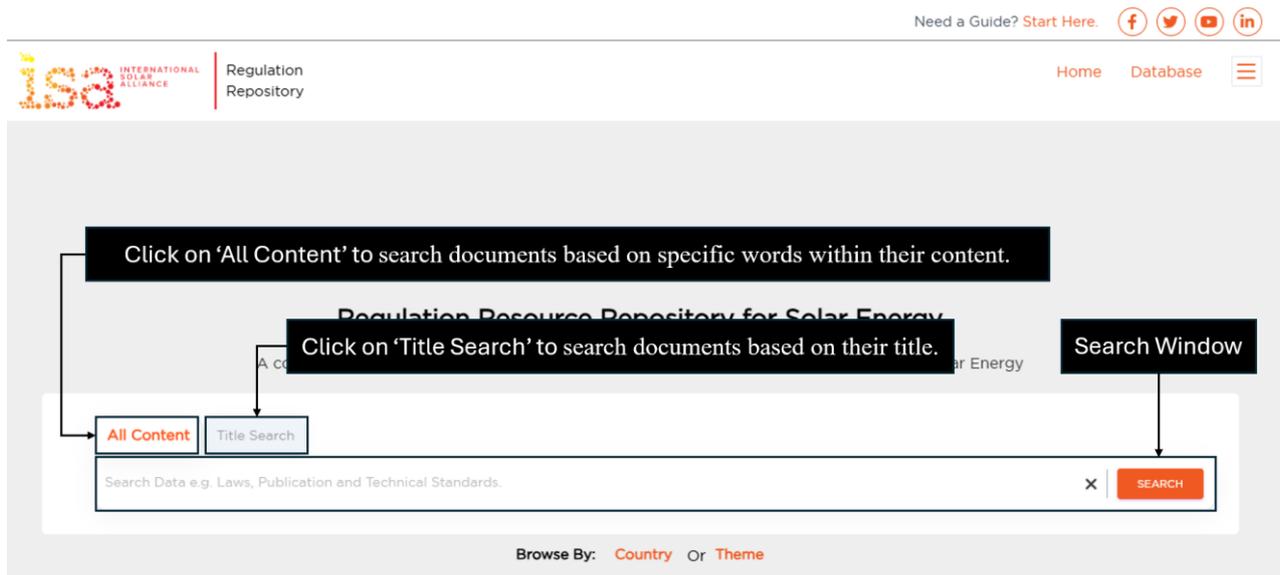
**Rights**  
Ministry of Power, Government of India

**URL**  
<https://cdnbbsr.s3waas.gov.in/s3716e1b8c6cd17b771da77391355749f3/uploads/2023/10/202310051290827491.pdf>

**Figure 12: Downloading the document**

### 2.3 SEARCH FUNCTIONALITY

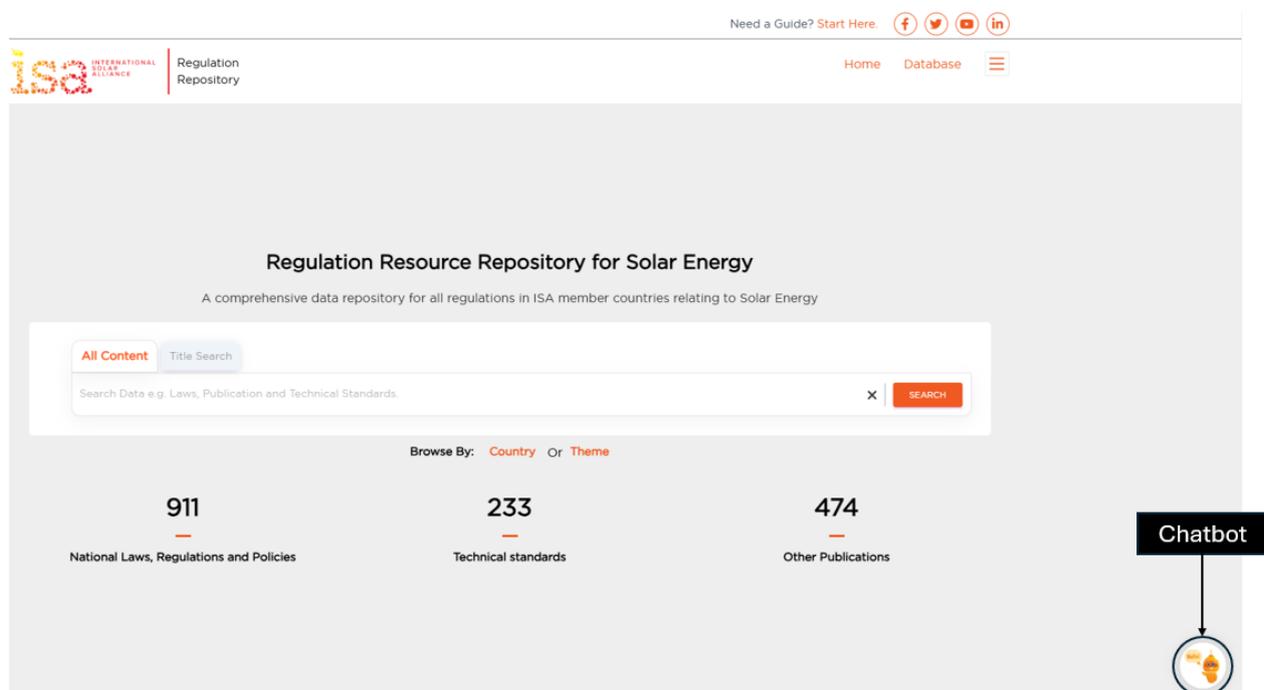
The search feature empowers users to explore specific topics or documents, constituting a prominent aspect of the ISA Regulation Resource Repository Portal. This functionality enables users to search for single or multiple keywords, delivering the most relevant documents based on the entered queries.



**Figure 13: Search Window**

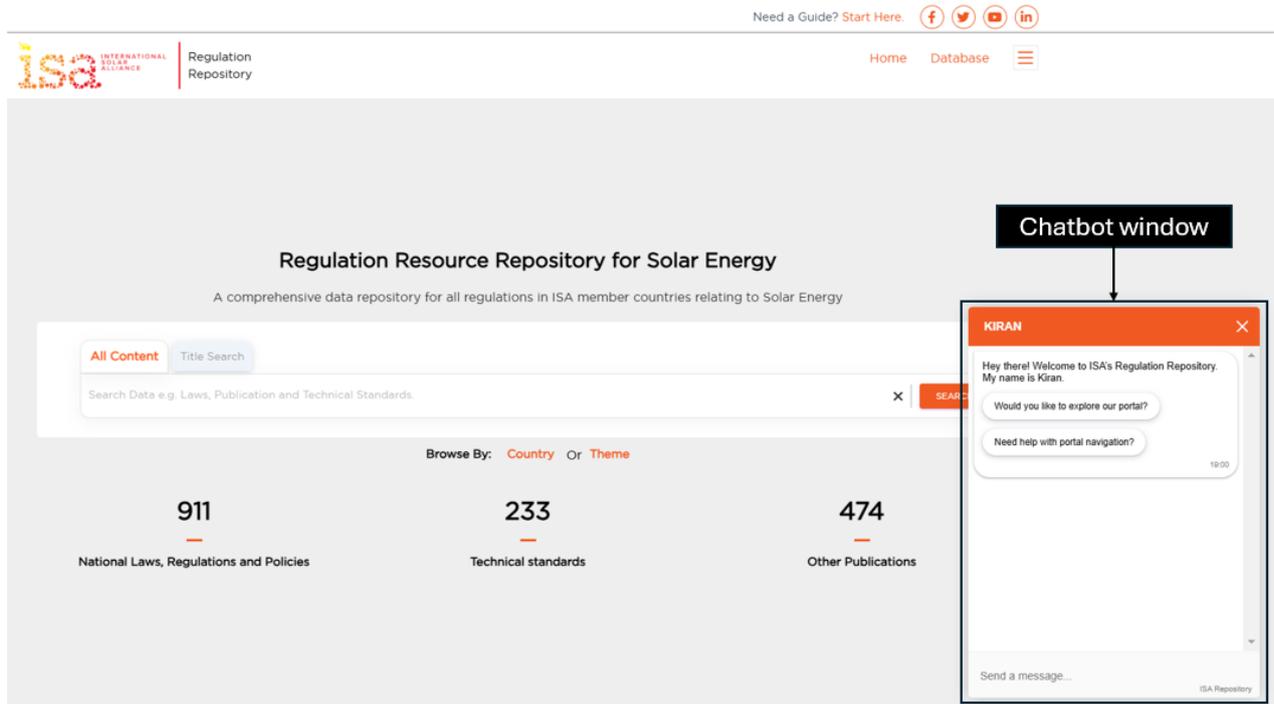
## 2.4 CHATBOT

The chatbot feature enables users to pose questions, and it endeavours to furnish answers by drawing upon the available database. The chatbot offers responses based on the most pertinent documents it identifies for the posed question, accompanied by links to access those documents. Additionally, the bot provides a direct link to the database page related to the queried question, facilitating users in discovering more relevant documents. The Chatbot can be accessed as shown below.



**Figure 14: Chatbot**

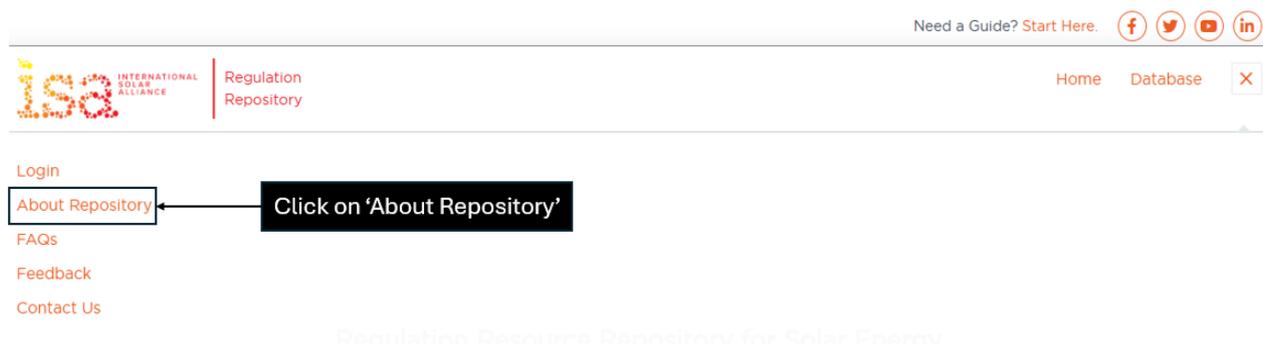
Select the Chatbot icon to open the chatbot window. Enter your question within the chatbot window as shown below.



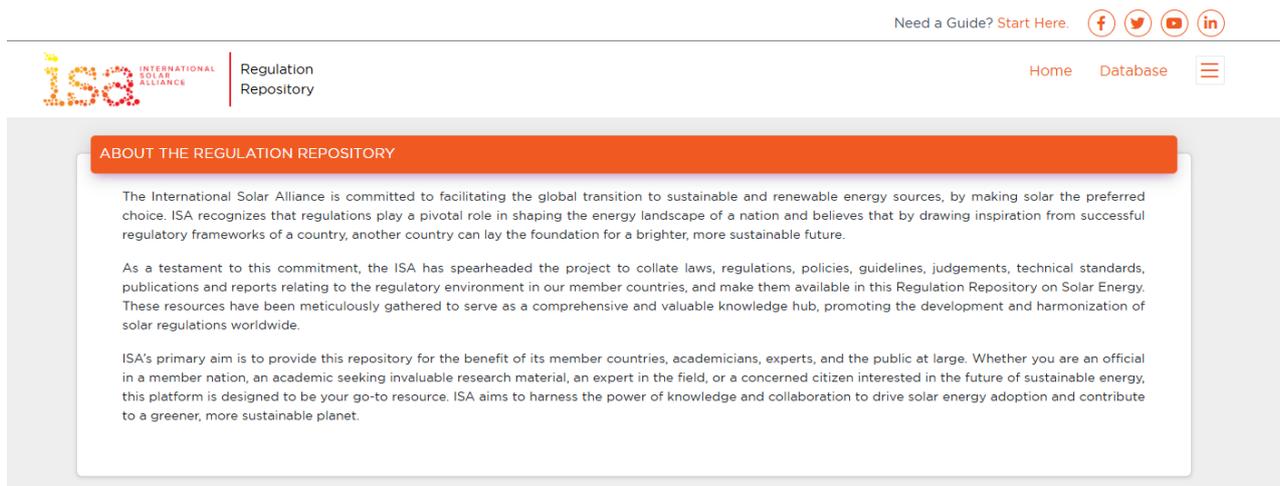
**Figure 15: Chatbot window**

## 2.5 ABOUT THE REPOSITORY

This section elucidates the purpose and significance of the repository, detailing its role as a centralized platform for regulatory resources related to the solar energy sector. This section provides users with a comprehensive understanding of the repository's objectives and its contribution to research and compliance. The user can access the About Repository page by clicking on the Hamburger menu and subsequently clicking on the “About Repository” sub-menu as shown below.



**Figure 16: About Repository - Menu**



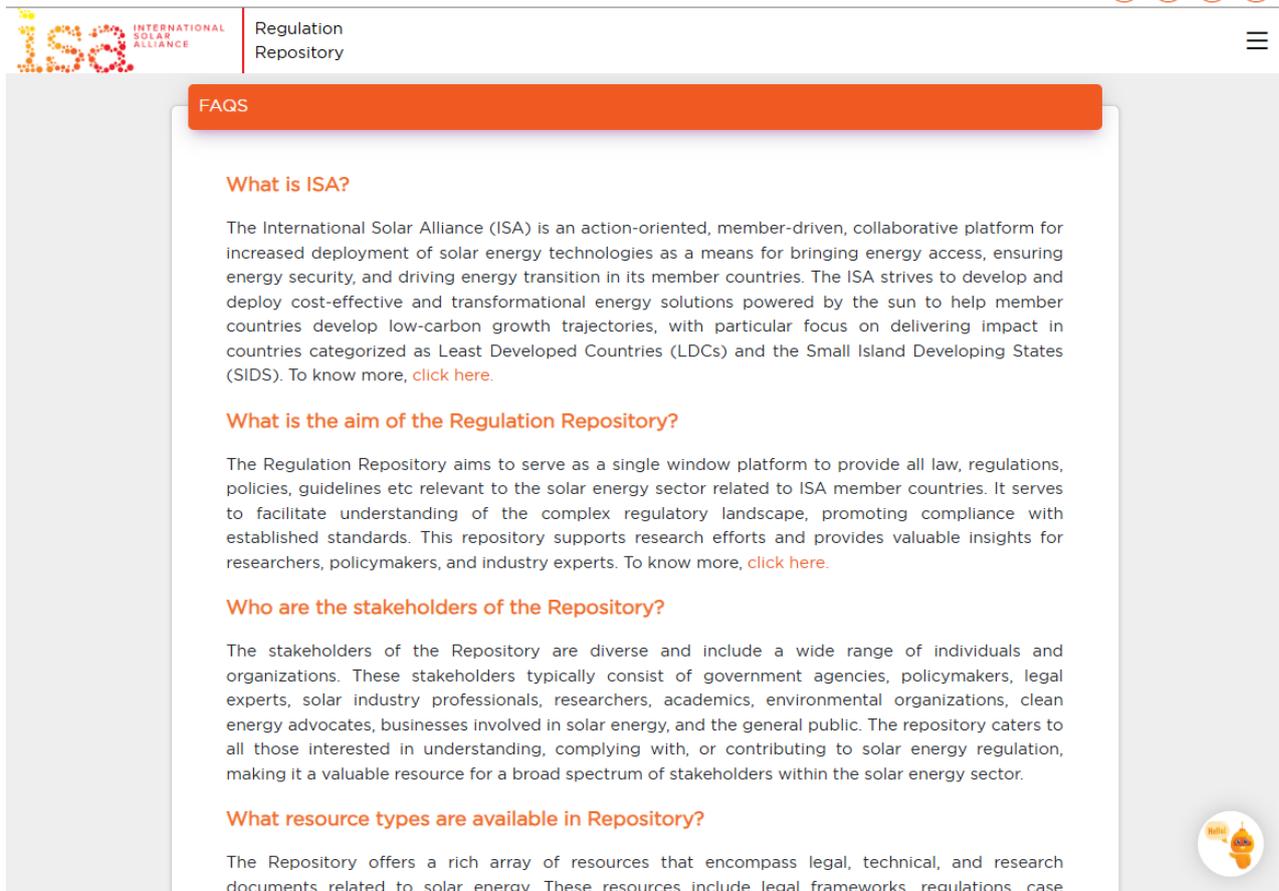
**Figure 17: About Repository - Page**

## 2.6 FREQUENTLY ASKED QUESTIONS (FAQS)

To assist users in addressing common queries, the FAQs section details the user about most common questions/queries. It serves as a quick reference guide, offering solutions to frequently encountered issues related to the portal's functionalities. The FAQs section can be accessed through the Hamburger menu as shown below.



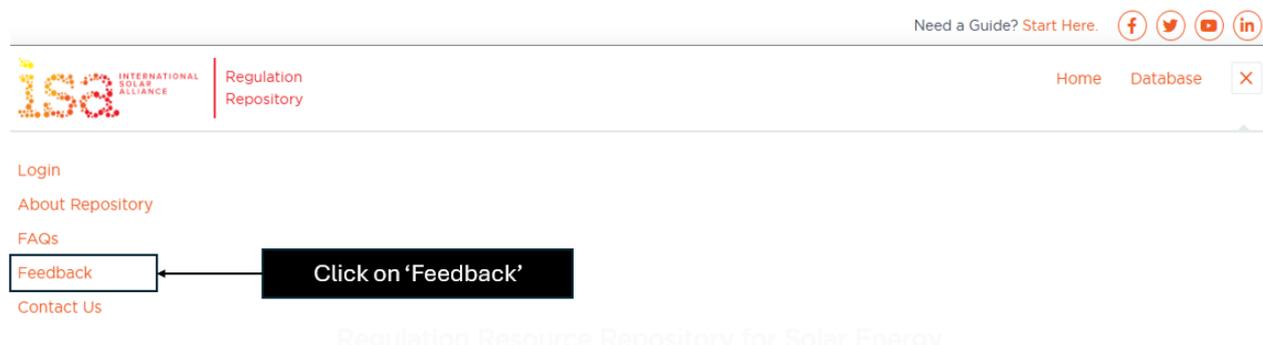
**Figure 18: FAQs Menu**



**Figure 19: FAQs Page**

## 2.7 FEEDBACK

User feedback is integral to continuous improvement. The Feedback Page guides users on how to provide valuable input. This ensures that the portal remains user-friendly, relevant, and aligned with the needs of its diverse user base. The Feedback page can be accessed by clicking on Hamburger menu and selecting the Feedback sub-menu as shown below. The user needs to fill in the necessary details and click on submit button to share the feedback to the admin.

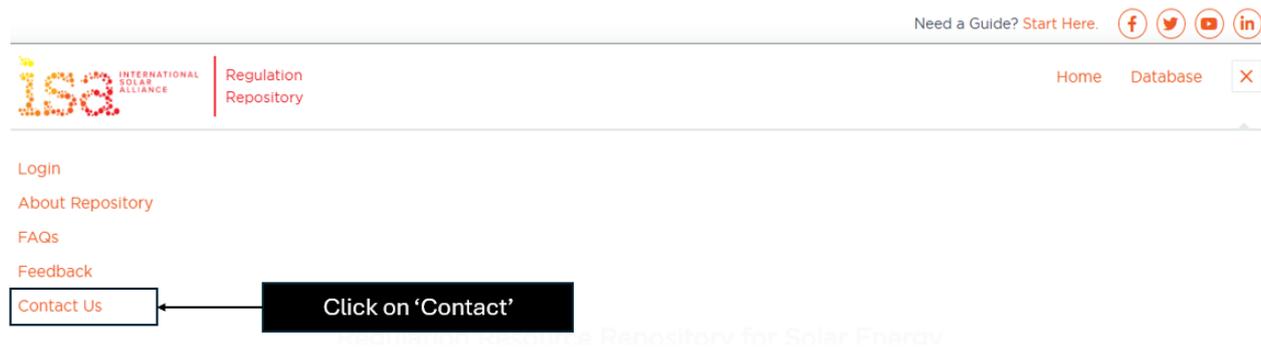


**Figure 20: Feedback Menu**

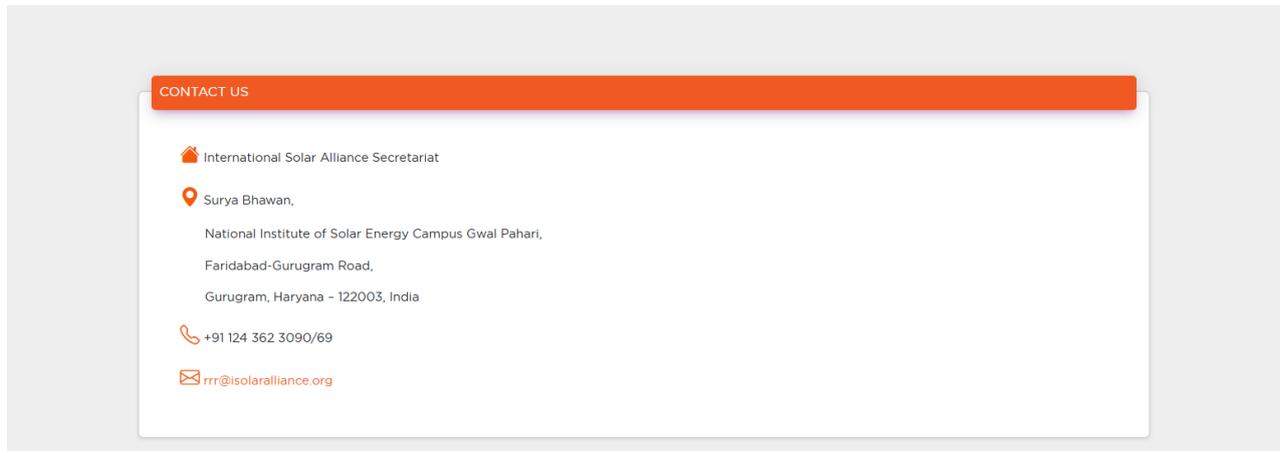
**Figure 21: Feedback Page**

## 2.8 CONTACT US

In case users require personalized assistance or have specific inquiries, the Contact Us Page details the channels through which users can reach out to the portal administrators. This enhances user engagement and establishes a direct line of communication. The Contact Us page can be accessed by clicking on Hamburger menu and selecting the Contact Us sub-menu as shown below.



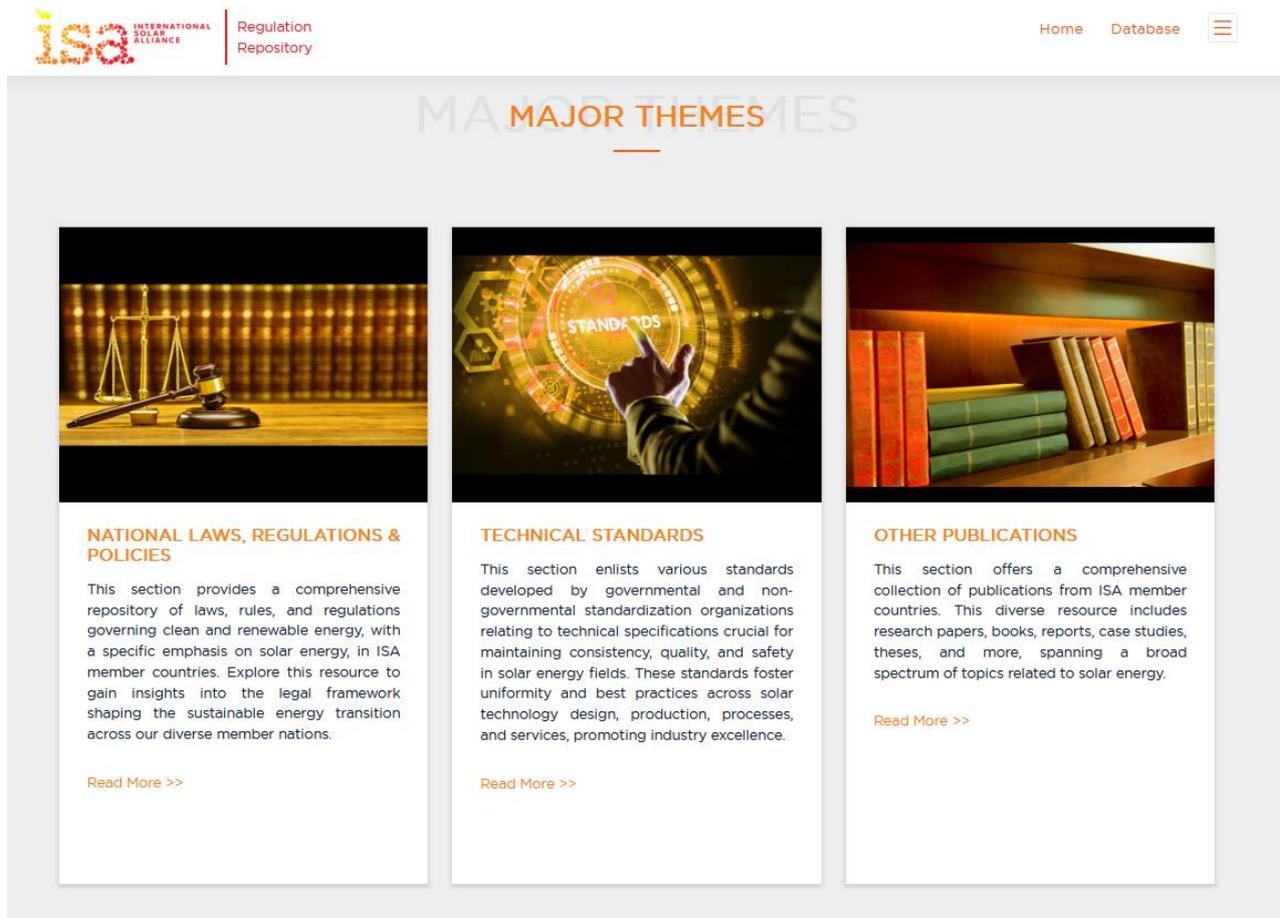
**Figure 22: Contact Us Menu**



**Figure 23: Contact Us Page**

## 2.9 MAJOR THEMES

The Major Themes section delves into the major themes covered by the repository, elucidating the information available under Laws, Regulations and Policies, Publications, and Technical Standards. This section serves as a roadmap for users, helping them navigate the portal with a clear understanding of the available content.



**Figure 24: Major Themes Window**

## 2.10 NEWS & UPDATES

To keep users informed about the latest developments, the News & Updates section outlines the latest newsfeed. This feature ensures that users stay abreast of changes in regulations, industry trends, and other pertinent information related to the solar energy sector.



Figure 25: News & Updates section

## 2.11 USER MANUAL & VIDEO GUIDES

The **User Manual & Video Guides** section provides users with step-by-step instructions on utilizing the **Search Options** available in the **Database Page** and **Search Bar**.

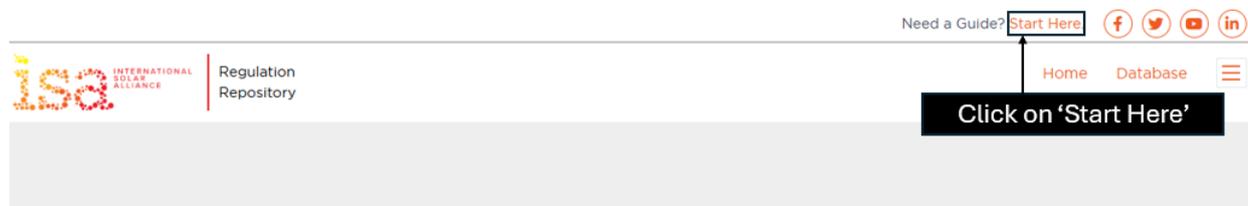
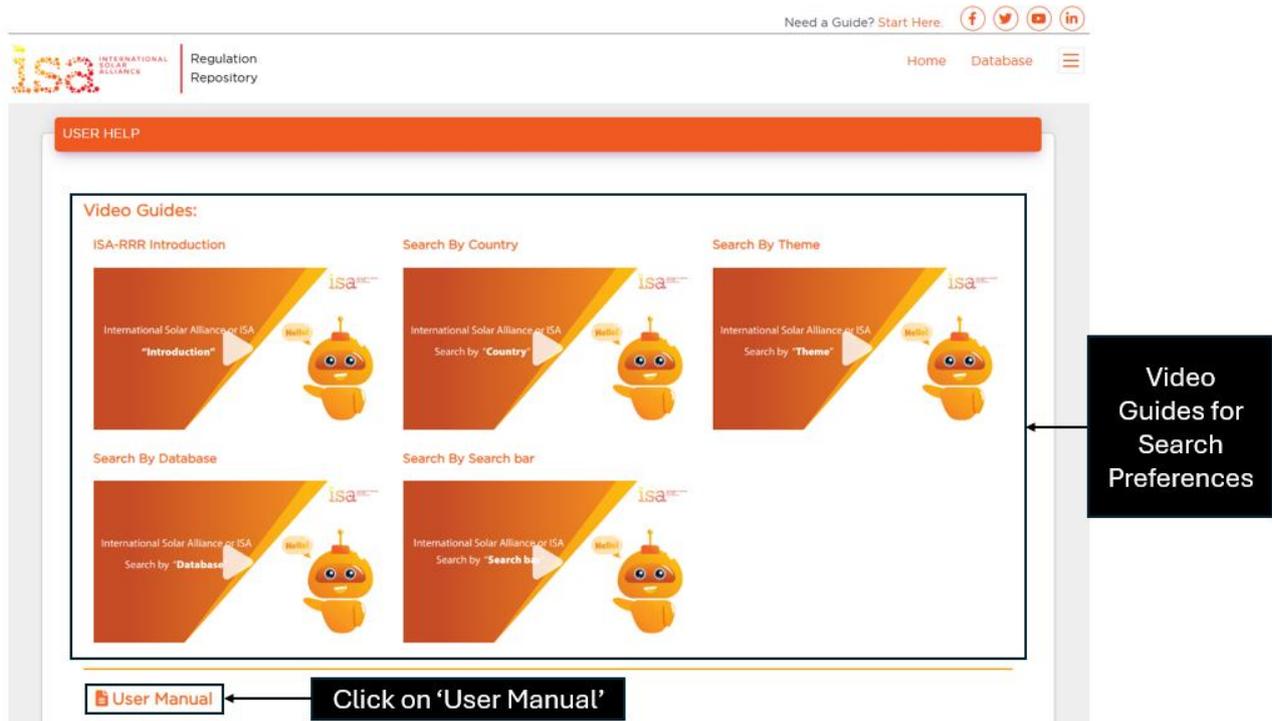


Figure 26: Need a Guide? Start Here



**Figure 27: User Manual & Video Guides**

The video guides demonstrate how users can refine their searches using the following options:

- Country-wise Search – Filter documents based on a specific country.
- Theme-wise Search – Browse documents categorized under major themes:
  - National Laws, Regulations & Policies
  - Publications
  - Technical Standards

For a comprehensive understanding of all portal features, users can download the User Manual, which contains detailed information.