

# READINESS AND PREPARATORY SUPPORT

## GUIDE TO THE PRODUCT REGISTRATION SYSTEM FOR ELECTRIC MOTORS, DISTRIBUTION TRANSFORMERS, WASHING MACHINES, AND TELEVISIONS SECTORS IN LEBANON

*Lebanon, "Development of Energy Efficiency Standards and Labelling program for electric motors, transformers, washing machines and TVs in Lebanon"*

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# 1 INTRODUCTION & BACKGROUND

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The product registration system (PRS) is a tool used to capture specific information on products to underpin policies or programs and to provide an initial compliance gateway for products entering the market.

It is a very efficient tool to support the implementation of new policies and regulations related to energy efficiency and minimum energy performance standards (MEPS).

Throughout the world, several product registration systems are currently in use, such as in Australia, China, Europe, India, and the United States.

This guide is intended for the future designers and coders who will be developing and implementing the Product Registration System (PRS). It provides detailed descriptions and functionalities for the various components of the system to ensure a comprehensive and user-friendly design. This document is not meant for the general public and should be used as a reference for the technical development team.

## 1.1 PRS for Lebanon

As part of the GCF-funded project “Development of Energy Efficiency Standards and Labelling program for electric motors, transformers, washing machines and TVs in Lebanon”, a proposal for MEPS and labels for electric motors, transformers, washing machines, and TVs is made, which can be adopted by the government of Lebanon to support energy efficiency and promote the use of more efficient appliances.

With the policies being enforced, the PRS would form an initial compliance gateway for products to enter the market, thereby helping to ensure that anticipated energy and greenhouse gas (GHG) emissions savings are realized.

The aim is to establish an online database (register) of electrical appliances and equipment, starting with televisions, washing machines, electrical motors, and transformers, enabling authorities to monitor and record the import of such products, enforce minimum energy performance standards (MEPS), promote energy-efficient products, and monitor the market.

Over time, relevant market participants will compile useful and manageable data, which in turn will serve as a basis for calculating, for example, GHG emissions from the sector and determining the potential impact of market transformation programs. The data can be used to inform future policy decisions, such as adjusting taxes or updating energy efficiency standards.

## 1.2 Objectives of the PRS

Product registration systems are intended to achieve three main objectives:

### 1.2.1 Aid in Market Transformation

A PRS reduces barriers to trade in energy-efficient products and eases compliance transparency for importers and manufacturers.

The impacts of such transitions can be profound. In Australia, for instance, energy consumption levels of refrigerators have effectively halved over the past 25 years.

### 1.2.2 Provide Data Repository

A PRS is a comprehensive and integrated data repository of value to government, industry, and the public alike. With PRS, relevant public authorities (Customs, Ministry of Finance, Industrial Research Institute (IRI)) can know if products being imported or offered for sale meet the regulations and are approved for import/sale.

A PRS also supports the industry, by providing accessible records to demonstrate that their market offerings are compliant and to ensure a level playing field for all.

A major beneficiary from the PRS are the end-users, who would be able to have real-time registration data at their fingertips to compare and contrast market offerings to be able to make informed choices about the energy efficiency of products they wish to purchase.

### 1.2.3 Support MV&E Activities

A PRS would be a key component in ensuring the efficient implementation of the MEPS and Labels once enforced. It would act as a rich resource supporting monitoring, verification, and enforcement activities about product efficiency standards and labeling programs.

## 1.3 Benefits of the PRS

The key benefit of a PRS is incentivizing more efficient products and aiding in market transformation towards more efficient and sustainable solutions. The key benefits are:

### 1.3.1 Trade Facilitation

- **Enhanced Transparency:** By implementing a PRS in Lebanon, the system will foster greater transparency in trade processes, encouraging international suppliers to engage with the Lebanese market.
- **Ease of Access:** The web-based nature of the PRS will provide a common platform for local and international stakeholders, streamlining the application process.
- **Clear Rules for Approval:** The system will offer well-defined rules for product approval, facilitating smoother entry of products into the market.

### 1.3.2 Consumer Resources

- **Informed Decision Making:** Consumers will have access to comprehensive information on product energy efficiency and labels, helping them make educated purchasing decisions.
- **Ease of Use:** The PRS will be accessible via mobile phones and computers, ensuring consumers can easily compare products from anywhere.

### 1.3.3 Foster Economic Development

- **Reduction of Trade Barriers:** The PRS will help lower trade barriers by creating transparent market regulations.
- **Protection for Compliant Entities:** Manufacturers and suppliers who meet the requirements will be safeguarded, fostering a fair competitive environment.

### 1.3.4 Facilitation of MV&E Activities

- **Monitoring and Verification:** The PRS will enable government entities like Customs, IRI, and Libnor to effectively monitor, verify, and enforce compliance with national energy efficiency policies.
- **Compliance Checks:** It will simplify the identification of non-compliant products at national borders and sales points, ensuring that product information is accurate and trustworthy.

### 1.3.5 Combat Corruption

- **Elimination of Bribery:** The online and streamlined nature of the PRS will reduce opportunities for bribery, significantly enhancing transparency and integrity in the process.

### 1.3.6 Workload Reduction

- **Efficiency in Documentation:** The PRS will streamline the documentation process, saving time for suppliers and importers.
- **Cost Reduction:** Reduced processing times will lower relative expenses and costs for all stakeholders.
- **Operational Efficiency:** The PRS will improve the efficiency of regulatory operations, allowing for the processing of large volumes of applications more quickly.

### 1.3.7 Aid Policy Making

- Rich Data Source: The PRS will provide valuable data that can inform government policies and aid programs, particularly regarding environmental impacts.
- Promotion of Efficient Products: Program managers will be able to use the data to promote the most efficient products in the marketplace, encouraging innovation.

### 1.3.8 Product Innovation

- Incentivizing New Designs: By highlighting the most efficient products, the PRS will incentivize manufacturers to innovate and develop new, more efficient product designs.

## 2 PRODUCT REGISTRATION PROCESS

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Suppliers and importers of appliances and equipment would be able to submit their product applications to the system. It starts by obtaining testing documents and ends with final approval from the regulating entity.

### 1 Product Testing

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- The product is tested in a certified laboratory according to the Lebanese standard
- Testing results to be collected

### 2 PRS Application

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- Supplier/Manufacturer provides product information and technical documents
- Fees are paid and request submitted

### 3 Application Assessment

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- The regulating authority reviews submitted application compared to MEPS
- Missing information is requested from the applicant

### 4 Approval & Market Access

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- Once the review is done and conformity verified, a decision is made
- The product is officially approved and verified on the PRS

Figure 1: The product registration process using the PRS

The PRS application process entails several steps for first-time users. The main steps are as follows:

1. Register as a user
2. Create a user profile and provide company information
3. Provide specific product details
4. Provide key test details and results
5. Provide performance claims
6. Upload technical and proof documents
7. Pay fees
8. Submit application

## 3 GUIDE TO THE PRS

### 3.1 Existing Resources

The UNEP-led initiative United for Efficiency (U4E) has created a prototype product registration system based on global best practices which contains the essential elements of a registration system, including user input forms, data tables, and output reports.

Lebanon can benefit from this prototype free of charge as it is based on open-source software. It is also designed to work with slow connections and can be deployed flexibly on Windows, Linux, or cloud/on-site. The application was securely developed and coded using OWASP (Open Web Application Security Project) Secure Coding Practices and the Transport Layer Security (TLS) communication protocol.

It is recommended to adopt the existing U4E prototype with customization to include the four appliances of interest. It is available at <https://united4efficiency.org/resources/prototype-product-registration-system/>

Note: The U4E PRS prototype does not currently include the specific appliances and equipment relevant to Lebanon (electric motors, transformers, washing machines, and televisions). Consequently, additional work will be required to expand and customize the tool to accommodate these product categories, ensuring that the PRS meets the specific regulatory and compliance needs of the Lebanese market.

### 3.2 Implementation Considerations

Implementing the Product Registration System (PRS) in Lebanon requires careful planning, a clear understanding of costs, and a well-defined governance structure. Below are the key considerations for successful implementation.

#### 3.2.1 Estimated Budget for Implementation

The cost estimates for adapting the U4E PRS prototype to Lebanon are detailed in the attached Excel file. The primary activities and their estimated costs are summarized below:

Item	Aim of activity	Units	Quantity	Price per unit (USD)	Total cost (USD)
End-user consultation (i.e. with Energy Ministry and standards office)	Determine the specifications for the software development to fit the needs of all stakeholders	person-days	0.5	\$1,000	\$500
Software specification development - 4 technologies, no calculations	Development of technical specifications document to add the four additional technologies to the system	person-days	5	\$1,000	\$5,000
Procurement preparation	Development of procurement details to search for a software development company that will execute the work & assessment of proposals	person-days	2	\$1,000	\$2,000
Software development - programming (4 new technology modules, only data collection, the tool will not perform energy efficiency calculations)	Programming done by software development company	person-days	30	\$500	\$15,000
Software development - queries clarification, etc.	Refinement of the software programming	person-days	4	\$1,000	\$4,000
Software development - product testing, bug reporting & bug resolution review	Review of system and last updates to avoid bugs	person-days	4	\$1,000	\$4,000
Update user manual	Update help area of system to include the changes	person-days	2	\$1,000	\$2,000
Training to users (i.e. with Energy Ministry and standards office)	Presentation and explanation of final system to its users	person-days	2	\$1,000	\$2,000
Deployment costs: hardware/cloud based services, 1 year cloud hosting	Transfer of system from development server to government owned server and hosting costs for one year	person-days	12	\$250	\$3,000
Overall project management & admin	Coordination and management of the project	person-days	15	\$800	\$12,000
<b>Total</b>					<b>\$49,500</b>

These estimates indicate that the initial implementation of the PRS will cost approximately USD 49,500. This budget includes the costs for end-user consultations, specification development, customization of the PRS prototype, deployment, initial training, and maintenance support for the first year.

### 3.2.2 Ideal Governance Setup for Lebanon

A robust governance framework is essential to ensure the successful implementation and operation of the PRS in Lebanon. The ideal governance setup includes:

#### 3.2.2.1 *Steering Committee:*

- **Composition:** Representatives from the Ministry of Energy, Customs Authority, Industrial Research Institute (IRI), Libnor (Lebanese Standards Institution), and key industry stakeholders.
- **Responsibilities:** Oversee the overall direction and strategic decisions of the PRS, ensure alignment with national energy policies, and resolve high-level issues.

#### 3.2.2.2 *Technical Working Group:*

- **Composition:** Technical experts from the Ministry of Energy, IT professionals, representatives from the industry, and international consultants.
- **Responsibilities:** Handle the technical aspects of the PRS, including customization, deployment, and maintenance. Provide technical support and ensure the system is updated with the latest energy efficiency standards.

#### 3.2.2.3 *Operational Team:*

- **Composition:** Day-to-day administrators and operators from relevant governmental bodies (e.g., Ministry of Energy, Customs).
- **Responsibilities:** Manage the daily operations of the PRS, including application processing, compliance verification, and user support.

#### 3.2.2.4 *User Advisory Panel:*

- **Composition:** Representatives from the business community, consumer advocacy groups, and other relevant stakeholders.
- **Responsibilities:** Provide feedback on the PRS from a user perspective, suggest improvements, and ensure the system meets the needs of its users.

By establishing this governance structure, Lebanon can ensure that the PRS is implemented effectively, managed efficiently, and remains aligned with the country's energy efficiency goals. The collaboration between various stakeholders will also help in addressing challenges and leveraging opportunities for continuous improvement of the PRS.

## 3.3 Proposed Portals

### 3.3.1 Applicant Portal

#### 3.3.1.1 Purpose:

The applicant portal is designed for suppliers, manufacturers, and traders who need to register their products in the system before they can be sold in the market.

#### 3.3.1.2 Key Features:

- **User Registration:** Users must register on the portal before submitting product applications. This ensures that only verified entities can list their products.
- **Application Submission:** The portal provides a complete set of online forms required for product registration. These forms include fields for product details, test results, performance summaries, and other necessary documentation.
- **Status Tracking:** Applicants can track the status of their applications in real-time. They can see whether their application is under review, approved, or requires additional information.
- **Notification System:** Applicants receive notifications about the status of their applications and any required actions or updates.
- **User-Friendly Interface:** The interface is designed to be intuitive and easy to navigate, allowing users to complete their registrations efficiently.

#### 3.3.1.3 Benefits:

- Simplifies the process of product registration.
- Provides transparency to applicants regarding the status of their applications.
- Reduces the administrative burden on both applicants and regulators.

### 3.3.2 Regulator Portal

#### 3.3.2.1 Purpose:

The regulator portal is intended for regulatory authorities responsible for reviewing and approving product applications.

#### 3.3.2.2 Key Features:

- **Application Review:** Regulators can access and review all submitted applications. They can verify product details, test results, and compliance with relevant standards.
- **Decision Making:** Regulators have the authority to approve, revoke, or refuse applications based on compliance with regulations. They can also request additional information or clarification from applicants.
- **Data Extraction:** The portal includes advanced features to extract sales data, testing facility data, and other relevant information. This allows for comprehensive analysis and reporting.
- **Reporting Tools:** Regulators can generate detailed reports and analyses to monitor market trends, compliance rates, and other important metrics.
- **Secure Access:** The portal ensures secure access to sensitive data, protecting the integrity and confidentiality of the information.

#### 3.3.2.3 Benefits:

- Streamlines the regulatory process, making it more efficient and transparent.
- Enhances the ability of regulators to monitor and enforce compliance.
- Provides valuable data for policy making and market analysis.

### 3.3.3 Administrator Portal

#### 3.3.3.1 Purpose:

The administrator portal is focused on managing the overall administration and smooth functioning of the PRS.

### 3.3.3.2 *Key Features:*

- **Account Management:** Administrators can manage user accounts for both applicants and regulators. This includes creating, modifying, and deactivating accounts as needed.
- **Issue Resolution:** The portal includes tools for resolving issues and providing support to users. Administrators can troubleshoot problems and ensure that the system operates smoothly.
- **System Customization:** Administrators have the ability to personalize the system according to specific requirements. This includes setting up system preferences, configuring workflows, and managing system updates.
- **Monitoring and Maintenance:** The portal allows administrators to monitor system performance and ensure that all components are functioning correctly. They can schedule maintenance tasks and implement updates to improve system efficiency.
- **Security Management:** Administrators can enforce security protocols to protect the system from unauthorized access and data breaches. This includes managing user permissions and monitoring access logs.

### 3.3.3.3 *Benefits:*

- Ensures the smooth operation of the PRS.
- Provides comprehensive tools for system management and maintenance.
- Enhances user support and satisfaction by resolving issues promptly.
- These three portals together create a comprehensive and efficient system for managing product registrations, ensuring regulatory compliance, and providing valuable data for market analysis and policy making.

## 3.4 Technical Requirements

The successful implementation of the Product Registration System (PRS) requires robust technical planning and execution. This section outlines the critical technical requirements for developing and maintaining the PRS.

### 3.4.1 Choice of Framework

#### 3.4.1.1 *Mainstream Frameworks:*

- The application should be built using widely adopted frameworks in the software development industry to ensure reliability, scalability, and ease of maintenance.
- **Java Enterprise Edition (Java EE):** Java EE is a robust, scalable, and secure platform for enterprise-level applications. It offers various APIs for web services, messaging, persistence, and more, making it suitable for complex applications like PRS.
- **Microsoft .NET Core:** .NET Core is a cross-platform framework known for its performance and flexibility. It supports cloud-based, web-based, and desktop applications, and is ideal for building large-scale, enterprise-grade applications.

#### 3.4.1.2 *Benefits:*

- **Reliability and Stability:** Both Java EE and .NET Core are known for their reliability and stability, crucial for an application handling sensitive data and numerous transactions.
- **Scalability:** These frameworks allow the application to scale as user numbers and data volumes grow.
- **Community and Support:** Being mainstream frameworks, they have extensive community support and resources, which can be invaluable for troubleshooting and development.

### 3.4.2 Cost Considerations

#### 3.4.2.1 *Low-Cost Maintenance:*

- **Hosting Costs:** The application should be designed to minimize hosting costs. This can be achieved by optimizing the application to run efficiently on cloud services or dedicated servers.
- **Software Licenses:** Using open-source components and libraries where possible can reduce the need for expensive software licenses.

- **Re-Programming Labor Costs:** The application should be built with maintainability in mind. Clear documentation, modular architecture, and adherence to coding standards can reduce the effort and cost of future modifications and enhancements.

#### 3.4.2.2 *Benefits:*

- **Reduced Operational Expenses:** Minimizing ongoing costs helps ensure the system is sustainable and affordable over the long term.
- **Budget Efficiency:** Lower maintenance costs mean more of the budget can be allocated to improving the system and adding new features.

### 3.4.3 Agile Software Development

#### 3.4.3.1 *Agile Principles:*

- **Short Feedback Loops:** Development should incorporate regular feedback from stakeholders, ensuring that the project stays aligned with user needs and expectations.
- **Constant Interaction:** Continuous collaboration between the development team and United for Efficiency (U4E) ensures that any issues are addressed promptly and the project progresses smoothly.
- **Potentially Changing Requirements:** The Agile approach allows for flexibility. If new requirements emerge or existing ones change, the development process can adapt quickly without significant delays.
- **Quality Focus:** Emphasizing quality at every stage of development ensures that the final product is robust, reliable, and user-friendly.
- **Iterative and Frequent Version Deployment:** Regularly deploying new versions allows for incremental improvements, immediate feedback, and the ability to address issues quickly.

#### 3.4.3.2 *Benefits:*

- **Flexibility and Adaptability:** Agile development enables the team to respond to changes and new insights throughout the project lifecycle.
- **Continuous Improvement:** Regular iterations allow for ongoing enhancements and refinements based on user feedback.
- **Stakeholder Engagement:** Frequent interactions with stakeholders ensure that the project remains aligned with their needs and expectations, increasing the likelihood of a successful implementation.

### 3.4.4 Additional Technical Considerations

#### 3.4.4.1 *Security:*

- Implementing robust security measures to protect sensitive data is crucial. This includes using encryption for data transmission, secure authentication mechanisms, and regular security audits.

#### 3.4.4.2 *Performance:*

- The system should be optimized for performance to handle high volumes of transactions without lag. This includes efficient database queries, load balancing, and scalable architecture.

#### 3.4.4.3 *User Experience (UX):*

- A focus on user experience ensures that the system is easy to navigate and use. This includes intuitive interfaces, clear instructions, and responsive design for accessibility on various devices.

#### 3.4.4.4 *Integration:*

- The PRS should be designed to integrate seamlessly with other systems, such as customs databases, regulatory bodies' systems, and industry databases, to streamline data flow and enhance functionality.

#### 3.4.4.5 *Documentation:*

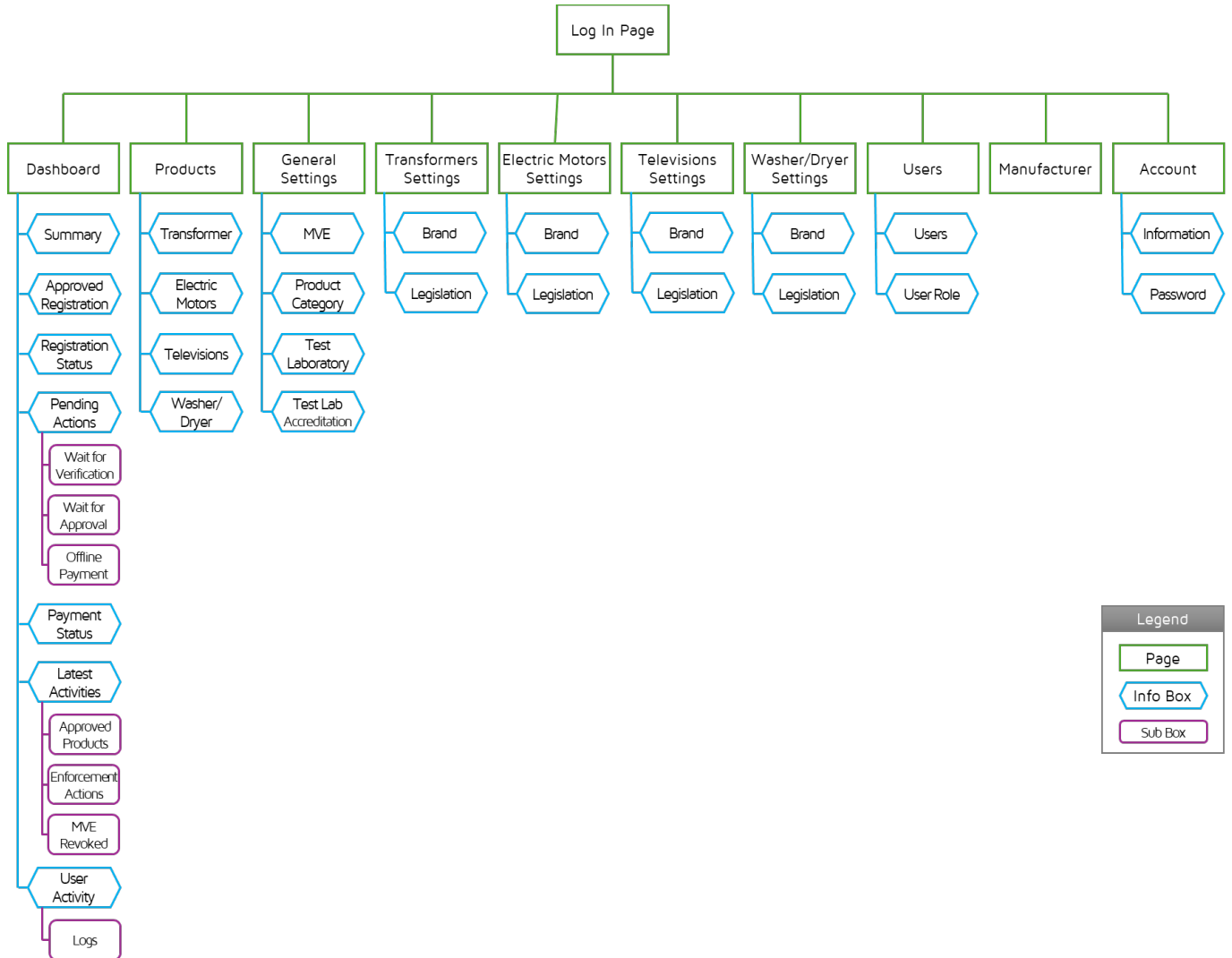
- Comprehensive documentation is essential for maintaining the system. This includes user manuals, technical documentation, and API documentation to support both users and developers.

By adhering to these technical requirements and best practices, the PRS will be a robust, scalable, and user-friendly system that meets the needs of all stakeholders and supports Lebanon's energy efficiency and sustainability goals.

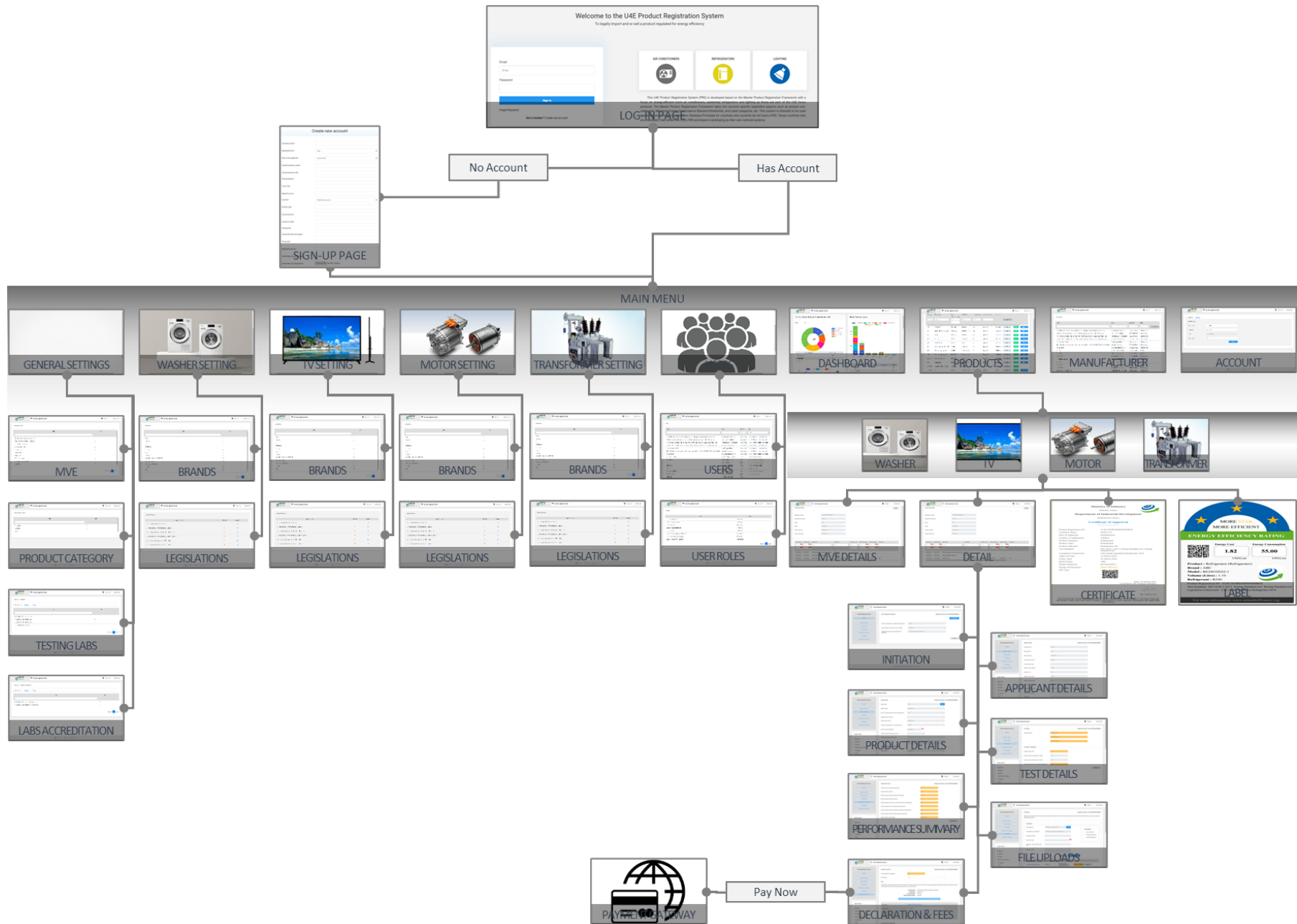
# 4 PROPOSED PRS DESIGN, CONTENTS, AND STRUCTURE

## 4.1 Site Structure and Sitemap

### 4.1.1 Visual Sitemap



## 4.1.2 Process Flow Demonstration



## 4.2 The User Interface

### 4.2.1 Login Page

#### 4.2.1.1 Description:

The U4E Product Registration System (PRS) web page serves as the login portal for users who need to register products regulated for energy efficiency. The page provides access to the system where users can manage their product registrations, including air conditioners, refrigerators, and lighting products.

#### 4.2.1.2 Specific Functionalities:

##### 4.2.1.2.1 Login Form:

- Email Field: A text input field where users enter their registered email address to log in.
- Password Field: A password input field where users enter their password.
- Sign In Button: A button that, when clicked, submits the login credentials for authentication and grants access to the system.
- Forgot Password Link: A link for users who have forgotten their password, providing a way to reset it.
- Create New Account Link: A link for new users to create an account if they are not already registered.

##### 4.2.1.2.2 Product Categories:

- Air Conditioners Icon: An icon representing air conditioners, indicating that this category is supported for registration.
- Refrigerators Icon: An icon representing refrigerators, indicating that this category is supported for registration.
- Lighting Icon: An icon representing lighting products, indicating that this category is supported for registration.

##### 4.2.1.2.3 Informational Text:

- Welcome Message: A message welcoming users to the U4E PRS, explaining its purpose for legally importing or selling regulated products.
- System Description: Text explaining that the U4E PRS is developed based on the Master Product Registration Framework with a focus on energy-efficient room air conditioners, residential refrigerators, and lighting products.
- Purpose of the System: Text detailing the framework's consideration of specific legislation aspects such as product sub-categories, Minimum Energy Performance Standard (MEPS) thresholds, and label categories.
- Intended Use: A note that this system can be used as a prototype for countries without a PRS to develop their national systems.

#### 4.2.1.3 Demonstration

Welcome to the U4E Product Registration System  
To legally import and or sell a product regulated for energy efficiency

Email

Password

[Sign in](#)

[Forgot Password](#)

[Not a member ? Create new account](#)

AIR CONDITIONERS

REFRIGERATORS

LIGHTING

To be replaced by applicable appliances: TVs, Washers, Electric Motors, Transformers

This U4E Product Registration System (PRS) is developed based on the Master Product Registration Framework with a focus on energy-efficient room air conditioners, residential refrigerators and lighting as those are part of the U4E focus products. The Master Product Registration Framework takes into account specific legislation aspects such as product sub-categories, Minimum Energy Performance Standard thresholds, and Label categories, etc. This system is intended to be used as the National Product Registration Database Prototype for countries who currently do not have a PRS. Those countries who are interested, may utilize this U4E's PRS prototype in developing as their own national systems.

## 4.2.2 Sign Up Page

### 4.2.2.1 Description

The Sign-Up Page is the first point of interaction for new users. It allows manufacturers, importers, and traders to create an account in the PRS, providing them access to the system and enabling them to register their products.

### 4.2.2.2 Functionalities:

#### 4.2.2.2.1 User Registration:

- **Form Fields:** Collects essential information such as name, email address, contact number, and password.
- **Company Details:** Includes fields for company name, address, registration number, industry sector, and other relevant information.
- **Role Selection:** Allows users to select their role (e.g., manufacturer, importer, trader), which will determine their permissions and access within the system.

#### 4.2.2.2.2 Verification Process:

- **Email Verification:** Sends a verification email to the user's provided email address to confirm their identity and prevent spam registrations.
- **Document Upload:** Requires users to upload necessary documents such as company registration certificates for verification.

#### 4.2.2.2.3 Security Features:

- **Password Requirements:** Enforces strong password policies, requiring a mix of letters, numbers, and special characters to enhance security.
- **Captcha Verification:** Includes a CAPTCHA to prevent automated registrations and ensure that only genuine users can sign up.

#### 4.2.2.2.4 User Agreement:

- **Terms and Conditions:** Provides a link to the PRS terms and conditions, which users must agree to before completing their registration.
- **Privacy Policy:** Includes a link to the privacy policy, ensuring users are informed about how their data will be used and protected.

#### 4.2.2.2.5 Account Activation:

- **Activation Link:** After successful verification, sends an activation link to the user's email to activate their account.
- **Welcome Message:** Displays a welcome message upon successful account activation, with links to the login page and further guidance on how to use the system.

## Create new account

Company name*	<input type="text"/>	
Requested role*	<input type="text" value="Lead"/>	Lead or Assistant
Role of the applicant*	<input type="text" value="Manufacturer"/>	Manufacturer or Importer
Contact persons name*	<input type="text"/>	
Contact persons title	<input type="text"/>	
Postal address*	<input type="text"/>	
Town/City*	<input type="text"/>	
State/Province	<input type="text"/>	
Country*	<input type="text" value="Please select country"/>	
Postal code*	<input type="text"/>	
Contact phone*	<input type="text"/>	
Contact mobile	<input type="text"/>	
Contact fax	<input type="text"/>	
Contact Email (user login)*	<input type="text"/>	
Password*	<input type="text"/>	
Repeat Password*	<input type="text"/>	
Certificate of incorporation*	<input type="text"/>	
Certificate of incorporation*	<input type="button" value="Choose file"/> No file chosen	
Tax clearance certificate*	<input type="button" value="Choose file"/> No file chosen	
	<input type="checkbox"/> I have read and agree to the <a href="#">Terms and Condition</a>	

Already have an account? [Sign in](#)

## 4.2.3 Dashboard Page

### 4.2.3.1 Description:

The Dashboard Page is the central hub for users once they are logged in. It provides a comprehensive overview of activities, pending tasks, and key metrics, ensuring they can manage their registrations and tasks efficiently.

### 4.2.3.2 Functionalities:

#### 4.2.3.2.1 Overview Section:

- **Summary Cards:** Displays summary cards for key metrics such as the number of products registered, applications in progress, approvals, and pending tasks.
- **Recent Activity:** Shows a list of recent activities and updates, helping users stay informed about the latest changes and actions.

#### 4.2.3.2.2 Notifications:

- **Alert System:** Provides alerts for important updates, such as application status changes, required actions, and upcoming deadlines.
- **Email and Notifications:** Sends notifications via email and within the app so users do not miss updates.

#### 4.2.3.2.3 Quick Links:

- **Frequently Used Actions:** Includes quick links to frequently used actions such as starting a new application, checking application status, and accessing user settings.
- **Resource Links:** Provides links to resources such as user guides, FAQs, and support for assistance.

#### 4.2.3.2.4 Application Management:

- **Application Status Tracker:** Displays the status of all ongoing applications, including submitted, under review, approved, and rejected applications.
- **Filter and Search:** Allows users to filter and search their applications by various criteria such as date, status, and product type for easy management.

#### 4.2.3.2.5 Task Management:

- **To-Do List:** Shows a to-do list of pending tasks and actions required from the user, such as providing additional information or completing incomplete applications.
- **Task Reminders:** Sends reminders for upcoming deadlines and tasks to ensure timely completion.

#### 4.2.3.2.6 Analytics and Reports:

- **Visual Analytics:** Provides visual analytics and charts for key performance indicators, helping users monitor their product registration activities and compliance status.
- **Downloadable Reports:** Allows users to generate and download detailed reports on their registered products, application statuses, and other relevant data.

#### 4.2.3.2.7 User Profile and Settings:

- **Profile Management:** Enables users to view and update profile information and password.
- **User Preferences:** Allows users to customize their dashboard view, notification preferences, and other settings according to their needs.

#### 4.2.3.2.8 Help and Support:

- **Help Center Access:** Provides access to the help center, where users can find tutorials, user manuals, and answers to common questions.
- **Support Contact:** Includes contact information for technical support, enabling users to get assistance.

#### 4.2.3.2.9 Security Features:

- **Secure Login:** Ensures that only authenticated users can access the dashboard, with options for two-factor authentication for enhanced security.
- **Session Management:** Monitors active sessions and allows users to log out from all devices if needed.

### 4.2.3.3 Demonstration

Total Product Registrations  
All  
**236**

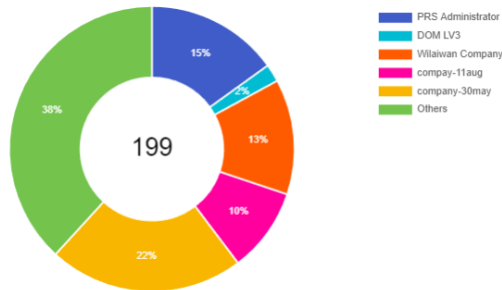
Product Registrations  
In progress  
**82**

Total Applicants  
All  
**104**

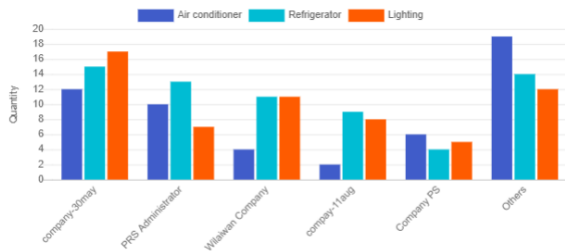
Total Payment  
All  
**3314.54 \$**

How many product registrations have been approved?

Category



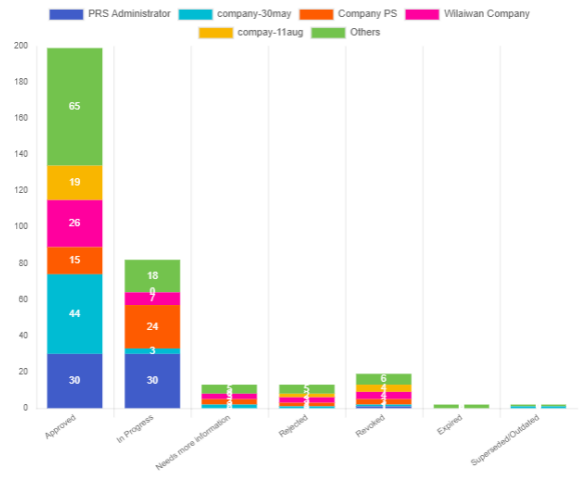
Product Category	Record Count
1. Air conditioner	53
2. Refrigerator	91
3. Lighting	55



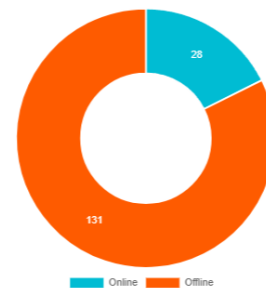
Importer / Manufacturer	Air Con	Refrigerator	Lighting
1. company-30may	12	15	17
2. PRs Administrator	10	13	7
3. Wilaiwan Company	4	11	11
4. compay-11aug	2	9	8
5. Company PS	6	4	5

Navigation: Previous | 1 | 2 | 3 | 4 | 5 | Next

Product Registration Status



Status	Air Con	Refrigerator	Lighting
1. Approved	53	91	55
2. In Progress	33	12	37
3. Needs more information	2	8	3
4. Rejected	2	10	1
5. Revoked	5	11	3
6. Expired	0	1	1



Payment Method	Product Registration
1. Online	28
2. Offline	131

Pending Actions

Applicant - Wait For Verification				Total 116 Records
Date	Applicant ID	Company name	Requested role	
28/08/2023	KEN-23000007Q2	Latent Engineers Limited	Chief	

## 4.2.4 Products Page

The Products Page is where users can manage all their product-related activities within the PRS. This page allows users to view, register, and update their products, providing a central location for all product management tasks.

### 4.2.4.1 Functionalities:

#### 4.2.4.1.1 Registered Products List:

- **Overview:** Displays a comprehensive list of all products that the user has registered within the PRS.
- **Product Details:** Shows essential information about each product, including product name, model number, registration date, and status.
- **Search and Filter:** Enables users to search for specific products and apply filters based on various criteria such as product category, registration status, and date.
- **Sorting Options:** Allows users to sort the list by different attributes like name, date, and status for easier navigation.

#### 4.2.4.1.2 Product Registration Form:

- **Mandatory Fields:** Highlights mandatory fields to ensure that users provide all necessary information before submission.
- **Document Upload:** Includes functionality for uploading required documents such as product specifications, test results, and compliance certificates.
- **Validation:** Performs real-time validation to check for missing or incorrect information, helping users correct errors immediately.

#### 4.2.4.1.3 Product Details Page:

- **Detailed View:** Offers a detailed view of each registered product, including all submitted information, uploaded documents, and application history.
- **Edit and Update:** Allows users to edit and update product information as needed, with a tracking mechanism to record changes and updates.
- **Compliance Status:** Displays the compliance status of each product, indicating whether it meets the relevant standards and regulations.

#### 4.2.4.1.4 Application Status Tracker:

- **Real-Time Updates:** Provides real-time updates on the status of product applications, including stages like submitted, under review, approved, or rejected.
- **Notifications:** Sends notifications for status changes, ensuring that users are informed about the progress of their applications.

#### 4.2.4.1.5 Bulk Upload Feature:

- **Batch Processing:** Allows users to upload multiple products at once using a standardized template, streamlining the registration process for large volumes of products.
- **Template Download:** Provides a downloadable template for users to fill out and upload, ensuring consistency and accuracy in data submission.
- **Bulk Document Upload:** Supports the bulk upload of documents associated with multiple products, saving time and effort.

#### 4.2.4.1.6 Export Data:

- **Downloadable Reports:** Enables users to generate and download reports on their registered products, including details such as compliance status, registration dates, and product categories.
- **Data Formats:** Offers multiple data formats for export, such as CSV, Excel, and PDF, to accommodate different user needs.

## 4.2.4.2 Demonstration

Category Refrigerator 15/0

### Refrigerators

Brand name	Model number	Date of product availability	Product type	Product sub-type	Registration status	Expiry date				
<input type="text" value="Search ..."/>	<input type="text" value="Search ..."/>	From <input type="text" value=""/> To <input type="text" value=""/>	<input type="text" value="Search ..."/>	<input type="text" value="Search ..."/>	<input type="text" value=""/>	<input type="text" value="Search"/>				
ABC	RE24032022-1	24/03/2023	Refrigerator	Yes	Approved	24/03/2024	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
ABC	test online payment 07022023	01/12/2022	Refrigerator-freezer	Yes	Approved	07/02/2024	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
ABC	test-ccc	01/12/2022	Refrigerator	Yes	Approved	13/01/2024	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
Haier	test-aaa	01/12/2022	Refrigerator	Yes	Approved	13/01/2024	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
Beko	test file upload	01/12/2022	Freezer	2	Approved	11/01/2024	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
ABC	test online payment 27122022	27/12/2022	Refrigerator	Yes	Approved	27/12/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
ABC	RE test online payment-2	01/12/2022	Refrigerator-freezer	3	Approved	27/12/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
ABC	RE test online payment-1	01/12/2022	Refrigerator-freezer	3	Approved	27/12/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
Samsung	RE test online payment	01/12/2022	Refrigerator-freezer	Yes	Approved	27/12/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
ABC	RE24032022	20/12/2021	Refrigerator-freezer	2	Approved	24/03/2024	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
Electrolux	RE test sync api new product	10/11/2022	Refrigerator	Yes	Revoked	10/11/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>		
Panasonic	test	03/11/2022	Refrigerator-freezer	2	Approved	03/11/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
Electrolux	test RE	21/09/2022	Refrigerator-freezer	2	Approved	21/09/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
Beko	test140965	14/09/2022	Refrigerator	Yes	In progress	-		<a href="#">Detail</a>		
Beko	test	14/09/2022	Refrigerator	Yes	Rejected	13/09/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>		
Beko	test08092022-5	08/09/2022	Refrigerator	Yes	Expired	08/09/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>		
Beko	test08092022	08/09/2022	Refrigerator	Yes	Approved	08/09/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
Beko	test08092022	08/09/2022	Freezer	Yes	Superseded/Outdated	08/09/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>		
Beko	test24082022	24/08/2022	Refrigerator-freezer	Yes	Approved	24/08/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>
Beko	tes24082022- process	24/08/2022	Refrigerator-freezer	3	Approved	24/08/2023	<a href="#">MVE details</a>	<a href="#">Detail</a>	<a href="#">Certificate</a>	<a href="#">Label</a>

## 4.2.5 General Settings Page

### 4.2.5.1 Description:

The General Settings Page is where users can configure various aspects of their account and application settings within the PRS. This page provides options to manage monitoring, verification, and enforcement settings, product categories, and accredited testing laboratories.

### 4.2.5.2 Functionalities:

#### 4.2.5.2.1 Monitoring, Verification, and Enforcement (MV&E) Settings:

- **Policy Configuration:** Allows users to set and update policies related to monitoring, verification, and enforcement of product standards.
- **Compliance Criteria:** Provides options to define and modify compliance criteria for different product categories, ensuring that all products meet the necessary standards.
- **Audit Scheduling:** Enables users to schedule regular audits and inspections to verify compliance, with reminders and notifications for upcoming audits.
- **Reporting Mechanism:** Includes tools to generate and submit reports on MV&E activities, ensuring transparency and accountability.

#### 4.2.5.2.2 Product Categories Management:

- **Category Definition:** Allows users to define and manage different product categories, specifying the criteria and attributes for each category.
- **Category Hierarchy:** Supports the creation of a hierarchical structure for product categories, making it easier to organize and navigate.
- **Category Updates:** Provides functionality to update and modify existing product categories, ensuring that the system remains up-to-date with new products and standards.
- **Search and Filter:** Enables users to search and filter product categories based on various attributes, such as name, criteria, and status.

#### 4.2.5.2.3 Accredited Testing Laboratories Management:

- **Laboratory Registration:** Allows users to register accredited testing laboratories within the system, providing details such as name, location, and accreditation status.
- **Verification of Accreditation:** Includes mechanisms to verify the accreditation of testing laboratories, ensuring that only qualified laboratories are listed.
- **Laboratory Updates:** Provides functionality to update and modify laboratory information, keeping the system current with the latest accreditation status and contact details.
- **Laboratory Search and Filter:** Enables users to search and filter testing laboratories based on various criteria, such as location, accreditation status, and specialty.

### 4.2.5.3 Demonstration

MVE		Product Category		Accredited Testing Laboratory	
Text	Seq	Text	Seq	Text	Seq
Offline fee payment for product registration	1	Air Conditioner	1	Air Conditioner - Test Laboratory Accreditation no.1	1
Online fee payment for product registration	2	Refrigerator	2	Air Conditioner - Test Laboratory Accreditation no.2	2
Product registration approval	3	Lighting	3		
In-country product sales	4				
Product import	5				
Product export	6				
3rd party test	7				
Enforcement actions	8				
Product registration revoked	9				
Test Report	10				

## 4.2.6 Product Settings Page

### 4.2.6.1 Description:

The Product Settings Page allows users to manage and configure settings related to the specific products they are registering within the PRS. This page focuses on defining product attributes, managing brand information, and updating legislation relevant to the products.

### 4.2.6.2 Functionalities:

#### 4.2.6.2.1 Appliance Settings:

- **Product Attributes:** Provides fields for entering and updating essential product attributes such as model name, serial number, and specifications.
- **Technical Details:** Allows users to input technical details for each product, including power ratings, dimensions, and performance metrics.
- **Certification Requirements:** Enables users to specify required certifications and compliance documents for each product type, ensuring all necessary information is provided.

#### 4.2.6.2.2 Brand Management:

- **Brand Information:** Users can enter and update information about the brands they represent, including brand name, logo, and contact details.
- **Brand Association:** Allows users to associate specific products with their respective brands, ensuring clear and organized product listings.
- **Brand History:** Maintains a history of changes and updates made to brand information, providing a record for audit purposes.

#### 4.2.6.2.3 Legislation Updates:

- **Legislative Criteria:** Enables users to input and update legislative criteria that products must meet, including energy efficiency standards, safety regulations, and environmental requirements.
- **Compliance Updates:** Provides functionality to update compliance information as new legislation is enacted or existing laws are amended, ensuring products remain compliant with current regulations.
- **Automated Alerts:** Sends alerts to users when relevant legislation is updated, prompting them to review and update their product settings accordingly.

#### 4.2.6.2.4 Accreditation Details:

- **Accredited Testing Laboratories:** Users can select and associate accredited testing laboratories with their products, ensuring that test results are from recognized and approved facilities.
- **Test Results Management:** Allows users to upload and manage test results and certification documents, ensuring that all necessary proof of compliance is readily available.
- **Validation of Test Reports:** Includes functionality to validate test reports against the accreditation details of the laboratories, ensuring authenticity and compliance.

### 4.2.6.3 Demonstration

#### Brand

Text	Seq
ABC	0
TKK1145	0
ac -1	0
ACTRON AIR	1
Samsung	2
GREE	3
Mammoth	4

#### Legislation

Legislation Title	Published	Preview
U4E model regulation Air Conditioners 2022	✓	👁️
U4E model regulation Air Conditioners 2022 - duplicate	✗	👁️
U4E model regulation Air Conditioners 2022 - duplicate -3Mar22	✗	👁️
U4E model regulation Air Conditioners 2022 - duplicate - duplicate	✗	👁️

*To be updated with adopted legislation*

## 4.2.7 Users Page

### 4.2.7.1 User Management

#### 4.2.7.1.1 Description:

The User Management section within the Users Page is where administrators can manage all aspects of user accounts and roles within the PRS. This functionality ensures that user permissions and access levels are properly assigned and maintained.

#### 4.2.7.1.2 Functionalities:

##### 4.2.7.1.2.1 User Registration:

**Add New Users:** Provides forms for adding new users to the system, including fields for name, email, role, and contact information.

**Role Assignment:** Allows administrators to assign specific roles to new users, determining their permissions and access levels within the PRS.

##### 4.2.7.1.2.2 User Directory:

**List of Users:** Displays a comprehensive list of all registered users, including their names, roles, and status (active/inactive).

**Search and Filter:** Enables administrators to search for users and apply filters based on various criteria such as role, status, and registration date.

##### 4.2.7.1.2.3 User Roles and Permissions:

**Role Management:** Allows administrators to define and manage different user roles, specifying the permissions associated with each role.

**Permission Levels:** Provides options to customize permission levels for each role, ensuring users have appropriate access to the system's features.

##### 4.2.7.1.2.4 User Status Management:

**Activate/Deactivate Users:** Enables administrators to activate or deactivate user accounts as needed, controlling who has access to the PRS.

**Status Indicators:** Displays status indicators (active/inactive) next to each user's name in the user directory.

##### 4.2.7.1.2.5 User Profile Updates:

**Edit User Information:** Allows administrators to update user information, including contact details and role changes.

**Password Reset:** Provides functionality for administrators to reset user passwords and send reset instructions to users.

##### 4.2.7.1.2.6 Audit and History:

**Activity Logs:** Maintains logs of user activities, such as login times, changes made to the system, and actions taken within the PRS.

**Change History:** Records changes made to user profiles and roles, providing a history of updates for audit purposes.

### 4.2.7.1.3 Demonstration

Name	Email	User Type	Role	Status
<input type="text"/>	<input type="text"/>	All <input type="button" value="v"/>	All <input type="button" value="v"/>	All <input type="button" value="v"/>
<input type="button" value="Search"/>				
test13012023-1	test13012023-1@mail.com	Manufacturer	Level 3.5 - Manuf./Importer Administrator	Active
qqq-1	qqq-1@mail.com	Staff	Level 5 - MVE officer	Active
qqq	qqq@mail.com	Staff	Level 5.5 - Program manager	Active
testadd_5_9jan23	testadd_5_9jan23@mail.com	Staff	Level 5 - MVE officer	Active
testadd_5-5_9jan23	testadd_5-5_9jan23@mail.com	Staff	Level 5.5 - Program manager	Active
test add	testadd_6jan23@mail.com	Staff	Level 2 - Manuf./Importer Read-only	Active
test30122022	test30122022@mail.com	Manufacturer	Level 3.5 - Manuf./Importer Administrator	Active
test company 20221229	test20221229@test.com	Manufacturer	Level 3.5 - Manuf./Importer Administrator	Under verification
test26122022	test26122022@mail.com	Manufacturer	Level 3.5 - Manuf./Importer Administrator	Under verification
test16122022-2	test16122022-2@gmail.com	Manufacturer	Level 3.5 - Manuf./Importer Administrator	Under verification
test16222022	test16222022@gmail.com	Manufacturer	Level 3.5 - Manuf./Importer Administrator	Under verification
test-24nov-new-user	test-24nov-new-user@test	Staff		Active
22november-3.5lv-1@gmail.com	22november-3.5lv-1@gmail.com	Manufacturer	Level 3.5 - Manuf./Importer Administrator	Active
22november-3.5lv@gmail.com	22november-3.5lv@gmail.com	Staff	Level 4 - Customs	Active

## 4.2.7.2 User Roles

### 4.2.7.2.1 Description:

The User Roles section within the Users Page allows administrators to define and manage the different roles assigned to users within the PRS. This functionality is crucial for ensuring that users have the appropriate permissions and access levels based on their responsibilities.

### 4.2.7.2.2 Functionalities:

#### 4.2.7.2.2.1 Role Definition:

- **Create New Roles:** Provides forms for creating new user roles, including fields for role name and description.
- **Role Descriptions:** Allows administrators to add detailed descriptions for each role, specifying the responsibilities and permissions associated with the role.

#### 4.2.7.2.2.2 Permission Assignment:

- **Define Permissions:** Enables administrators to specify the permissions for each role, determining what actions users with that role can perform within the PRS.
- **Permission Categories:** Categorizes permissions into different groups such as read, write, edit, and delete, making it easier to assign appropriate access levels.

#### 4.2.7.2.2.3 Role Management:

- **List of Roles:** Displays a comprehensive list of all defined roles within the PRS, including the number of users assigned to each role.
- **Edit Roles:** Allows administrators to update role details and permissions as needed, ensuring that roles remain relevant to current needs.
- **Delete Roles:** Provides functionality to delete roles that are no longer needed, with safeguards to prevent the deletion of roles currently assigned to users.

#### 4.2.7.2.2.4 Role Assignment to Users:

- **Assign Roles to Users:** Allows administrators to assign one or multiple roles to users, ensuring they have the necessary permissions to perform their duties.
- **Role Reassignment:** Enables easy reassignment of roles as users' responsibilities change, with an option to update multiple users simultaneously.

#### 4.2.7.2.2.5 Role Hierarchies:

- **Define Hierarchies:** Supports the creation of role hierarchies, where certain roles have more privileges than others, facilitating structured access control.
- **Inheritance of Permissions:** Ensures that roles lower in the hierarchy inherit permissions from higher roles, simplifying the management of complex permission structures.

#### 4.2.7.2.2.6 Audit and Compliance:

- **Role Activity Logs:** Maintains logs of changes made to roles and permissions, providing a record for audit purposes.
- **Compliance Checks:** Automatically checks for compliance with defined policies and regulations, alerting administrators to any potential issues with role assignments.

#### 4.2.7.2.3 Key Users (Example classifications)



#### 4.2.7.2.4 Demonstration

Name	Group
Level 6 - Administrator	Administrator
Level 5.5 - Program manager	Government
Level 5 - MVE officer	Government
Level 5R - MVE officer read-only	Government
Level 4 - Customs	Government
Level 3.5 - Manuf./Importer Administrator	Manufacturer
Level 3 - Manuf./Importer data entry	Manufacturer
Level 2 - Manuf./Importer Read-only	Manufacturer

## 4.2.8 Manufacturers Page

### 4.2.8.1 Description:

The Manufacturers Page is designed to manage and display information related to the manufacturers registered within the PRS. This page allows users to view manufacturer details, register new manufacturers, and manage existing manufacturer profiles.

### 4.2.8.2 Functionalities:

#### 4.2.8.2.1 Manufacturer Registration:

- **Registration Form:** Provides a form for registering new manufacturers, including fields for company name, address, contact information, and industry sector.
- **Document Upload:** Allows users to upload necessary documents such as business licenses, certifications, and proof of accreditation.
- **Verification Process:** Includes mechanisms for verifying the provided information and documents, ensuring that only legitimate manufacturers are registered.

#### 4.2.8.2.2 Manufacturer Directory:

- **List of Manufacturers:** Displays a comprehensive list of all registered manufacturers, including their names, contact details, and registration status.
- **Search and Filter:** Enables users to search for specific manufacturers and apply filters based on various criteria such as location, industry, and registration status.
- **Sorting Options:** Allows users to sort the list by different attributes like name, date of registration, and status for easier navigation.

#### 4.2.8.2.3 Manufacturer Details:

- **Profile Page:** Provides a detailed profile page for each manufacturer, including all submitted information, documents, and a history of interactions.
- **Edit Manufacturer Information:** Allows users to update and edit manufacturer information as needed, with a tracking mechanism to record changes and updates.
- **Compliance Status:** Displays the compliance status of each manufacturer, indicating whether they meet the necessary standards and regulations.

#### 4.2.8.2.4 Manufacturer Approvals:

- **Approval Workflow:** Implements a workflow for approving or rejecting manufacturer registrations, including steps for document review and verification.
- **Notifications:** Sends notifications to manufacturers about the status of their registration, including any required actions or additional information needed.
- **Approval History:** Maintains a history of approval decisions and actions taken, providing a record for audit purposes.

#### 4.2.8.2.5 Bulk Management:

- **Bulk Upload:** Allows users to upload information for multiple manufacturers at once using a standardized template, streamlining the registration process for large volumes.
- **Bulk Actions:** Supports bulk actions such as activating, deactivating, or updating the status of multiple manufacturers simultaneously.

#### 4.2.8.2.6 Analytics and Reports:

- **Compliance Reports:** Generates reports on manufacturer compliance status, providing insights into industry trends and regulatory adherence.
- **Performance Metrics:** Includes metrics on manufacturer performance, such as the number of registered products, approval rates, and compliance issues.

### 4.2.8.3 Demonstration

Name	Email	Applicant ID	Status
<input type="text"/>	<input type="text"/>	<input type="text"/>	All <input type="text"/>
			<input type="button" value="Search"/>
testmail-temp-4-addnew-level3.5	cerafoj350@game4hr.com	-	Approved
ttttt	ttttt@mail.com	-	Approved
company-30may	testmail-30may@mail.com	-	Approved
DOM LV3	domtestu4e.lv3@gmail.com	-	Under verification
company-11may	testmail-11may@mail.com	-	Approved
Manufacturer33	iiecbangkok@iiec.org	-	Approved
tstcompany	tstcompany.2@gmail.com	-	Approved
tstcompany	tstcompany@gmail.com	-	Under verification
DOM COMPANY	domtestu4e@gmail.com	-	Under verification
mdsoft	Sasipong@mdsoft.co.th	-	Approved
TESTMAN	domtestu4e@gmail.com	-	Under verification
DOM TEST	domtestu4e@gmail.com	-	Under verification
Company name-m1	xasos97547@sartess.com	-	Approved
test m-1	tasix89280@nuesond.com	-	Under verification
Manufacturer 22	manufacturer3-5@mail.com	-	Approved
TEST LTD	testu4e@gmail.com	-	Approved
TEST LTD	test01@gmail.com	-	Under verification
LZobLLsu	LZobLLsu@burpcollaborator.net	-	Approved

### 4.2.9 Account Page

#### 4.2.9.1 Description:

The Account Page is where users can manage their personal and account-related information within the PRS. This page provides functionalities for updating personal details, managing security settings, and viewing account activity.

#### 4.2.9.2 Functionalities:

##### 4.2.9.2.1 Personal Information:

- Profile Details: Allows users to view and update their personal information, including name, email address, contact number, and address.
- Profile Picture: Provides functionality to upload or change the profile picture, enhancing user personalization.
- Update Notifications: Sends notifications to users when their personal information is updated, ensuring they are aware of changes.

##### 4.2.9.2.2 Security Settings:

- Password Management: Enables users to change their password, with requirements for strong password policies to enhance security.
- Two-Factor Authentication (2FA): Provides options to enable or disable two-factor authentication for added security, with setup instructions and recovery options.
- Security Questions: Allows users to set up or update security questions for account recovery purposes.
- Login Activity: Displays a log of recent login activities, including dates, times, and IP addresses, helping users monitor unauthorized access.

##### 4.2.9.2.3 Notification Preferences:

- Email Notifications: Enables users to customize their email notification preferences, choosing which types of notifications they want to receive.

- **In-App Notifications:** Allows users to manage their in-app notification settings, including alerts for application status changes, compliance updates, and system announcements.

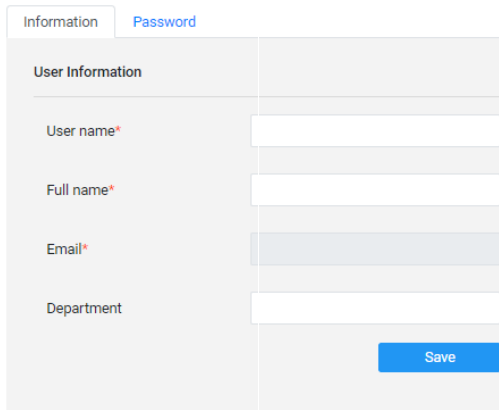
#### 4.2.9.2.4 Account Activity:

- **Activity Logs:** Provides a detailed log of account activities, such as changes to personal information, security settings updates, and subscription modifications.
- **Session Management:** Displays active sessions and allows users to log out of all sessions, providing control over account access.

**Audit Trail:** Maintains an audit trail of significant account activities for transparency and security purposes.

- information for technical support, allowing users to get assistance with account-related issues.

#### 4.2.9.3 Demonstration



The screenshot shows a user information form with two tabs: "Information" (selected) and "Password". The form is titled "User Information" and contains the following fields:

- User name\*
- Full name\*
- Email\*
- Department

A blue "Save" button is located at the bottom right of the form.

## 4.3 Product Application

The product application process is a crucial part of the PRS, enabling suppliers and manufacturers to register their products for sale in the market. This section provides detailed descriptions and functionalities for each step involved in the product application process.

### 4.3.1 Initiation

#### 4.3.1.1 Description:

The initiation step is where the product application process begins. This step involves the initial setup and preparation required before submitting a product for registration. It serves as the foundation for the entire application process, ensuring that all preliminary information is collected and the user is guided through the subsequent steps.

#### 4.3.1.2 Functionalities:

##### 4.3.1.2.1 User Authentication:

- **Login Requirement:** Ensures that only authenticated users who have logged into the system can initiate the product application process.
- **User Verification:** Verifies the user's credentials to confirm their eligibility to submit product applications.

##### 4.3.1.2.2 Application Dashboard:

- **Overview of Steps:** Provides an overview of the entire application process, outlining each step that needs to be completed.
- **Progress Indicator:** Displays a progress bar or step indicator to show users how far along they are in the application process.

##### 4.3.1.2.3 Guidance and Instructions:

- **Step-by-Step Instructions:** Offers detailed instructions on how to proceed with the application, including what information and documents are required at each stage.
- **Tooltips and Help Icons:** Includes tooltips and help icons to provide additional guidance and explanations for specific fields and sections.

##### 4.3.1.2.4 Pre-Application Checklist:

- **Document Requirements:** Lists the necessary documents and information needed for the application, such as product specifications, test results, and compliance certificates.
- **Checklist Completion:** Allows users to check off items on the checklist as they gather and prepare the required materials.

##### 4.3.1.2.5 Application ID Generation:

- **Unique ID Creation:** Generates a unique application ID for each product application, which can be used for tracking and reference purposes throughout the process.

#### 4.3.1.3 Demonstration

The screenshot shows the 'Product Registration Initiation' form. At the top left, it says 'Product Registration Initiation' and at the top right, 'Registration Number: ALB-2303RE000004MMR4S'. There is a blue 'Pre-registration' button in the top right corner. The form has three main input fields:

- Country where applicant is applying for registration \***: A text input field.
- Select the type of product you wish to register**: A dropdown menu. A red box highlights this field, with a callout box containing the text: 'Dropdown list of appliances: TV, Washer, Dryer, Electric Motor, Transformer'.
- Legislation framework (energy performance standards) \***: A dropdown menu. A red box highlights this field, with a callout box containing the text: 'Dropdown list of appliance legislation list (4.2.6)'.

## 4.3.2 Applicant Details

### 4.3.2.1 Description:

In the Applicant Details step, users provide comprehensive information about themselves and their organization. This step ensures that the system has all necessary details to verify the applicant's identity and eligibility to submit product applications.

### 4.3.2.2 Functionalities:

#### 4.3.2.2.1 Personal Information:

- Full Name: Field for entering the applicant's full name.
- Job Title: Field for entering the applicant's job title or role within the organization.
- Contact Information: Fields for entering contact details, including phone number and email address.
- Address: Fields for entering the applicant's address, including street, city, state, and postal code.

#### 4.3.2.2.2 Company Information:

- Company Name: Field for entering the name of the company or organization.
- Company Address: Fields for entering the company's address, including street, city, state, and postal code.
- Company Registration Number: Field for entering the official registration number of the company.
- Industry Sector: Dropdown menu for selecting the industry sector in which the company operates.

#### 4.3.2.2.3 Verification Documents:

- Document Upload: Functionality to upload necessary verification documents such as business licenses, company registration certificates, and proof of identity.
- Document Types: Dropdown menu or checklist for selecting the type of document being uploaded (e.g., business license, identity proof).
- Verification Status: Indicator showing the status of the uploaded documents (e.g., pending, verified, rejected).

#### 4.3.2.2.4 Additional Contact Persons:

- Contact Person Details: Fields for entering details of additional contact persons, including name, job title, phone number, and email address.
- Roles and Responsibilities: Field for specifying the roles and responsibilities of additional contact persons within the application process.

#### 4.3.2.2.5 Company Overview:

- Company Description: Text area for entering a brief description of the company, including its history, mission, and core activities.
- Key Achievements: Text area for highlighting key achievements and milestones of the company.

#### 4.3.2.2.6 Compliance Information:

- Previous Compliance Records: Fields for entering information about previous compliance records, including past registrations and compliance certificates.
- Compliance Officer Details: Fields for entering the contact details of the company's compliance officer or responsible person.

#### 4.3.2.2.7 Save and Resume:

- Draft Saving: Allows users to save their progress at any point during the Applicant Details step, enabling them to resume the application later without losing any entered information.
- Auto-Save Feature: Automatically saves entered information periodically to prevent data loss in case of unexpected interruptions.

#### 4.3.2.2.8 Data Validation:

- Real-Time Validation: Performs real-time validation checks on the entered information to ensure completeness and accuracy.

- **Error Notifications:** Provides real-time feedback and error messages for incorrect or missing information, helping users correct issues promptly.

#### 4.3.2.2.9 *Review and Confirmation:*

- **Summary Review:** Displays a summary of all entered applicant details for review before proceeding to the next step.
- **Confirmation Check:** Requires users to confirm the accuracy of the provided information before submission, with a checkbox or confirmation button.

#### 4.3.2.3 *Demonstration*

Applicant Details Registration Number: ALB-2303RE000004MMR4S

---

Company name *	<input type="text"/>	
Requested role *	<input type="text" value="▼"/>	Role of representative (CEO, Chief, Engineer...)
Role of applicant *	<input type="text" value="▼"/>	Manufacturer, Supplier, Trader...
Contact person's name *	<input type="text"/>	
Contact person's title	<input type="text"/>	
Address: Street, number *	<input type="text"/>	
Address: City *	<input type="text"/>	
Address: Postal code *	<input type="text"/>	
Address: state/province	<input type="text"/>	
Address: Country *	<input type="text" value="▼"/>	Dropdown list of countries
Contact phone landline *	<input type="text"/>	
Contact phone mobile	<input type="text"/>	
Contact fax	<input type="text"/>	
Contact Email *	<input type="text"/>	
Certificate of incorporation *	<input type="text" value="Choose file"/> No file chosen	
Tax clearance certificate *	<input type="text" value="Choose file"/> No file chosen	

### 4.3.3 Product Details

#### 4.3.3.1 *Description:*

In the Product Details step, users provide specific information about the product they wish to register. This step ensures that all necessary product specifications and attributes are accurately documented, facilitating the compliance and verification process.

#### 4.3.3.2 *Functionalities:*

##### 4.3.3.2.1 *Basic Product Information:*

- **Product Name:** Field for entering the name of the product.
- **Model Number:** Field for entering the model number or code of the product.
- **Brand Name:** Dropdown menu or field for entering the brand name of the product.
- **Category:** Dropdown menu for selecting product category (e.g. washing machine, TV, electric motor).

##### 4.3.3.2.2 *Technical Specifications:*

- **Dimensions:** Fields for entering the dimensions of the product (height, width, depth).
- **Weight:** Field for entering the weight of the product.
- **Material:** Field for specifying the primary materials used in the product.
- **Power Consumption:** Fields for entering power consumption details

##### 4.3.3.2.3 *Performance Metrics:*

- **Efficiency Ratings:** Fields for entering efficiency ratings and performance metrics relevant to the product (e.g., energy efficiency ratio, water usage efficiency).
- **Operating Conditions:** Fields for specifying the optimal and maximum operating conditions (e.g., temperature range, humidity tolerance).
- **Lifecycle Information:** Fields for providing lifecycle information, including product lifespan and warranty

##### 4.3.3.2.4 *Compliance and Standards:*

- **Compliance Certificates:** Functionality to upload compliance certificates and test reports from accredited laboratories.
- **Standards Met:** Dropdown menu or checklist for selecting the standards and regulations the product complies with (e.g., ISO standards, regional regulations).
- **Compliance Status:** Indicator showing compliance status of product (e.g., pending, verified, rejected).

##### 4.3.3.2.5 *Environmental Impact:*

- **Recyclability:** Field for specifying the recyclability of the product or its components.
- **Hazardous Materials:** Fields for declaring hazardous materials used, with handling instructions.
- **Energy Consumption:** Field for entering average and maximum energy consumption during operation.

##### 4.3.3.2.6 *Additional Features:*

- **Product Features:** Text area for describing additional features and functionalities of the product.
- **User Manuals:** Functionality to upload user manuals and instructional guides for the product.
- **Product Images:** Functionality to upload images of the product, including different views and angles.

##### 4.3.3.2.7 *Product Variants:*

- **Variant Management:** Fields for managing different variants of the product, such as different colors, sizes, or configurations.
- **Variant Specifications:** Allows users to enter specifications for each product variant, ensuring comprehensive documentation.

#### 4.3.3.3 *Input Information:*

Provided in 5.1 Input Product Details for Various Appliances

### 4.3.3.4 Demonstration

Registration Number: ALB-2303RE000004MMR4S

---

**General Details**

Brand name \*  ▼ Add Dropdown list of pre-defined brands

Model number \*

Part of a model family with same characteristics? \*  ▼ Yes or No

Global trade item number

Country of manufacturer or Country of origin \*  ▼ Dropdown list of countries

Date of product availability \*

Projected annual sales (product units)

Website with product information

General comment

---

**Appliance Specific Details**

Product type \*  ▼ Dropdown list of appliance legislation list (4.2.6)

Product sub-type \*  ▼ Dropdown list of appliances included (TVs, washers, electric motors, Transformers)

HS code  ▼ Dropdown list of Harmonized Code of the specific appliance

Has the appliance automatic defrost? \*  ▼

External Dimensions – WxDxH (mm)

Number of compartments \*

**Compartment Details - 1**

Compartment type \*  ▼ Parameters of relevant appliances to be set as per section 5.1

Net storage volume (litre) \*

Total fresh food volume

Total frozen food volume

Refrigerant type \*  ▼

Refrigerant charge (kg)\*

Refrigerant GWP \*

Refrigerant ODP \*

Blowing agent type \*  ▼

Blowing Agent GWP \*

Blowing Agent ODP \*

## 4.3.4 Test Details

### 4.3.4.1 Description:

In the Test Details step, users provide detailed information about the tests conducted on the product to verify its performance and compliance with relevant standards. This step ensures that the product meets all necessary requirements and standards before it is registered.

### 4.3.4.2 Functionalities:

#### 4.3.4.2.1 Test Information:

- Testing Laboratory: Dropdown menu for selecting the accredited testing laboratory that conducted the tests.
- Test Report Number: Field for entering the unique identifier or report number associated with the test.
- Test Date: Date picker for entering the date when the test was conducted.

#### 4.3.4.2.2 Test Parameters:

- Parameters Tested: Fields for specifying the various parameters that were tested (e.g., energy efficiency, safety, performance metrics).
- Test Conditions: Fields for describing the conditions under which the tests were conducted (e.g., temperature, humidity, operational settings).
- Testing Standards: Dropdown menu or checklist for selecting the standards and protocols followed during testing (e.g., ISO standards, national regulations).

#### 4.3.4.2.3 Test Results:

- Parameter Results: Fields for entering the results of the tests for each parameter, including numerical values and qualitative assessments.
- Pass/Fail Status: Indicator or dropdown menu for specifying whether the product passed or failed each test parameter.
- Summary of Results: Text area for providing a summary or overall assessment of the test results.

#### 4.3.4.2.4 Document Upload:

- Test Reports: Functionality to upload detailed test reports and certification documents from the testing laboratory.
- Supporting Documents: Allows users to upload additional supporting documents, such as calibration certificates and laboratory accreditation proofs.

#### 4.3.4.2.5 Compliance Verification:

- Automatic Verification: Automated checks to verify that the test results meet the required standards and specifications.
- Compliance Status: Displays the compliance status of the product based on the test results, indicating whether it meets all necessary requirements.

#### 4.3.4.2.6 Historical Data:

- Previous Tests: Provides access to historical test data for the product, including previous test results and compliance records.
- Test Comparisons: Allows users to compare current test results with previous ones to identify any changes or improvements in performance.

#### 4.3.4.2.7 Save and Resume:

- Draft Saving: Allows users to save their progress at any point during the Test Details step, enabling them to resume the application later without losing any entered information.
- Auto-Save Feature: Automatically saves entered information periodically to prevent data loss in case of unexpected interruptions.

#### 4.3.4.2.8 Data Validation:

- Real-Time Validation: Performs real-time validation checks on the entered information to ensure completeness and accuracy.
- Error Notifications: Provides real-time feedback and error messages for incorrect or missing information, helping users correct issues promptly.

#### 4.3.4.2.9 Review and Confirmation:

- Summary Review: Displays a summary of all entered test details for review before proceeding to the next step.
- Confirmation Check: Requires users to confirm the accuracy of the provided information before submission, with a checkbox or confirmation button.

#### 4.3.4.3 Input Information:

Provided in 5.2 Input Test Details for Various Appliances

#### 4.3.4.4 Demonstration

Test Details Registration Number: ALB-2303RE000004MMR4S

---

Testing Standard \*

Testing Standard \*

Testing Standard \*

---

Test Results -

Adjusted volume (AV) *	1.10
24 hour energy consumption (20°C)(Wh) *	100
24 hour energy consumption (32°C)(Wh) *	200
Test result annual energy consumption (kWh/year)	54.75

Parameters of relevant appliances to be set as per section 5.2

## 4.3.5 Performance Summary

### 4.3.5.1 Description:

The Performance Summary step involves summarizing the product's performance based on the provided details and test results. This step provides a consolidated view of the product's efficiency, compliance, and overall performance metrics.

### 4.3.5.2 Functionalities:

#### 4.3.5.2.1 Performance Metrics:

- **Key Metrics Overview:** Displays key performance metrics such as energy efficiency, power consumption, and operational efficiency.
- **Graphical Representation:** Provides charts and graphs to visually represent performance metrics, making it easier to understand and compare data.

#### 4.3.5.2.2 Compliance Summary:

- **Standards Met:** Lists the standards and regulations the product complies with, based on the test results and provided documentation.
- **Compliance Status:** Indicates the overall compliance status of the product, showing whether it meets all necessary requirements.
- **Certification Summary:** Summarizes the certifications the product has received, including the issuing bodies and dates.

#### 4.3.5.2.3 Energy Efficiency:

- **Efficiency Ratings:** Displays the energy efficiency ratings, such as Energy Star rating or other relevant efficiency classifications.
- **Comparative Efficiency:** Provides a comparison of the product's efficiency against industry benchmarks or similar products.

#### 4.3.5.2.4 Environmental Impact:

- **Emissions Data:** Summarizes data on the product's emissions, if applicable, including CO2 emissions and other relevant environmental impacts.
- **Sustainability Metrics:** Highlights sustainability metrics, such as recyclability, use of eco-friendly materials, and energy-saving features.

#### 4.3.5.2.5 Operational Performance:

- **Durability and Reliability:** Summarizes test results related to the product's durability and reliability, including lifecycle testing outcomes.
- **User Feedback:** If available, includes summaries of user feedback or reviews related to the product's performance.

#### 4.3.5.2.6 File Attachments:

- **Performance Reports:** Allows users to attach detailed performance reports and analysis documents.
- **Supporting Documents:** Enables the upload of additional supporting documents that provide further insights into the product's performance.

#### 4.3.5.2.7 Review and Confirmation:

- **Summary Review:** Provides a detailed review of all entered performance data, allowing users to confirm the accuracy before submission.
- **Editable Fields:** Allows users to make final adjustments to performance data if necessary, ensuring all information is correct and complete.

#### 4.3.5.2.8 Approval Process:

- **Regulator Review:** Facilitates the review process by regulatory authorities, who can assess the performance summary and compliance status.

- **Approval Status:** Displays the approval status once the regulatory review is complete, indicating whether the product has been approved for registration.

#### 4.3.5.2.9 *Export and Sharing:*

- **Export Summary:** Allows users to export the performance summary as a PDF or other document format for record-keeping and sharing purposes.
- **Share with Stakeholders:** Provides options to share the performance summary with stakeholders, such as partners, customers, or internal teams.

#### 4.3.5.2.10 *Save and Resume:*

- **Draft Saving:** Allows users to save their progress at any point during the Performance Summary step, enabling them to resume the application later without losing any entered information.
- **Auto-Save Feature:** Automatically saves entered information periodically to prevent data loss in case of unexpected interruptions.

#### 4.3.5.3 *Input Information:*

Provided in 5.3 Input Energy Performance Results for Various Appliances

#### 4.3.5.4 *Demonstration*

Energy Performance	Registration Number: ALB-2303RE000004MMR4S
Annual energy consumption (kWh/year)	55
Energy efficiency ratio (R)	1.86
Maximum annual energy consumption (kWh/year)	102.18
Minimum Energy efficiency ratio (R)	0
Does this product meet the min. energy performance requirements?	Yes
Does this product meet the refrigerant requirements?	Yes
Does this product meet the refrigerant charge limit requirements?	Yes
Does this product meet the blowing agent requirements?	Yes
Energy efficiency rating (label)	High Efficiency

Parameters of relevant appliances to be set as per section 5.3

## 4.3.6 File Uploads

### 4.3.6.1 Description:

In the File Uploads step, applicants upload all necessary documents to support their application. This includes product manuals, test reports, compliance certificates, and other relevant documentation. This step ensures that all required documents are collected and properly organized to facilitate the review and approval process.

### 4.3.6.2 Functionalities:

#### 4.3.6.2.1 Document Upload Interface:

- **Upload Button:** Provides a button to upload files from the user's device.
- **Drag and Drop:** Supports drag-and-drop functionality for easier file uploading.
- **Multiple File Uploads:** Allows users to upload multiple files simultaneously, saving time and effort.

#### 4.3.6.2.2 File Types and Formats:

- **Supported Formats:** Accepts various file formats, including PDF, DOC, DOCX, XLS, XLSX, JPEG, and PNG.
- **File Type Restrictions:** Ensures that only the required and supported file types can be uploaded, preventing incompatible files.

#### 4.3.6.2.3 Document Categories:

- **Categorization:** Allows users to categorize documents by type (e.g., test reports, compliance certificates, product manuals).
- **Category Selection:** Dropdown menu or checklist for selecting the document category during upload.

#### 4.3.6.2.4 File Naming and Descriptions:

- **Automatic Naming:** Automatically generates file names based on the document type and other relevant details.
- **Manual Naming:** Allows users to manually name files and add descriptions to provide context and additional information.

#### 4.3.6.2.5 Document Preview:

- **Preview Functionality:** Enables users to preview documents before uploading to ensure they are correct.
- **Thumbnail View:** Displays thumbnails of uploaded images and documents for quick identification.

#### 4.3.6.2.6 File Management:

- **Edit and Delete:** Allows users to edit file names, descriptions, and categories, or delete files if necessary.
- **Version Control:** Manages different versions of documents, ensuring that the latest version is always available.

#### 4.3.6.2.7 Upload Status:

- **Progress Indicator:** Displays upload progress for each file, showing completion percentage.
- **Upload Confirmation:** Confirms successful uploads with a status message or notification.

#### 4.3.6.2.8 Document Verification:

- **Verification Checks:** Automatically checks the uploaded documents for required fields, signatures, and certifications.
- **Compliance Verification:** Verifies that the uploaded documents meet the compliance requirements specified in earlier steps.

#### 4.3.6.2.9 Security and Privacy:

- **Encryption:** Ensures that uploaded documents are encrypted to protect sensitive information.
- **Access Control:** Restricts access to uploaded documents based on user roles and permissions.

#### 4.3.6.2.10 Storage and Organization:

- **Folder Structure:** Organizes uploaded documents into folders based on categories and steps.

#### 4.3.6.2.11 Review and Confirmation:

- Document Checklist: Displays a checklist of required documents, indicating which have been uploaded and which are still needed.
- Final Review: Allows users to review all uploaded documents before final submission, ensuring completeness and accuracy.

#### 4.3.6.2.12 Save and Resume:

- Draft Saving: Allows users to save their progress at any point during the File Uploads step, enabling them to resume the application later without losing any uploaded documents.
- Auto-Save Feature: Automatically saves uploaded documents periodically to prevent data loss in case of unexpected interruptions.

#### 4.3.6.3 Demonstration

File Uploads

Registration Number: ALB-2303RE000004MMR4S

Applicants must upload copies of documents as noted below. Simply click on the "Browser" button below each item, then use the file browser. Locate and upload the applicable documents.

**Test Report\***

Test laboratory \* Test Laboratory no.1 Add

Test laboratory accreditation \* Test Laboratory Accreditation no.1 ▼

Test report number \*

Test report date \* [Calendar Icon]

Test report - serial number of test unit \*

Test report - note

New Test Report
Update Test Report

File Name	File Size	Note	Test Standard	
<a href="#">imgpsh_fullsize_anim.png</a>	0.05 mb	ISO 1638-1:2013 Testing Standard no2 Testing Standard no3		<span style="border: 1px solid #ccc; padding: 2px 5px; background-color: #ffc107;">Delete</span> <span style="border: 1px solid #ccc; padding: 2px 5px; background-color: #6c757d; color: white;">Detail</span>

Choose file No file chosen
 (Maximum file size : 5 MB)

**Letter Of Authority \***

File Name	File Size	
<a href="#">imgpsh_fullsize_anim.png</a>	0.050419286511973006 mb	<span style="border: 1px solid #ccc; padding: 2px 5px; background-color: #ffc107;">Delete</span>

Choose file No file chosen
 (Maximum file size : 5 MB)

**Product Image (Optional)**

File Name	File Size	
<a href="#">imgpsh_fullsize_anim.png</a>		<span style="border: 1px solid #ccc; padding: 2px 5px; background-color: #6c757d; color: white;">Choose file</span> No file chosen <span style="float: right;">(Maximum file size : 5 MB)</span>

Dropdown list of list of pre-defined labs

**Test Standard\***

ISO 1638-1:2013

Testing Standard no3

Testing Standard no2

Dropdown list of a pre-defined lab accreditations

## 4.3.7 Declaration and Fees

### 4.3.7.1 Description:

The Declaration and Fees step is the final stage in the product application process. In this step, applicants declare the accuracy and truthfulness of the information provided and pay the necessary application fees. This step ensures that the application is complete and ready for final review and approval.

### 4.3.7.2 Functionalities:

#### 4.3.7.2.1 Declaration Statement:

- **Confirmation Checkbox:** Provides a checkbox for applicants to confirm that all information provided in the application is accurate and truthful.
- **Declaration Text:** Displays a declaration statement that applicants must agree to, outlining their commitment to the accuracy of the information and compliance with relevant regulations.
- **Digital Signature:** Allows applicants to digitally sign the declaration, providing an additional layer of verification and accountability.

#### 4.3.7.2.2 Fee Calculation:

- **Automatic Fee Calculation:** Automatically calculates the application fees based on the product type, category, and other relevant factors.
- **Fee Breakdown:** Provides a detailed breakdown of the fees, showing how the total amount is derived from different components (e.g., registration fee, processing fee, compliance fee).

#### 4.3.7.2.3 Payment Options:

- **Multiple Payment Methods:** Supports various payment methods, including credit card, debit card, bank transfer, and online payment gateways.
- **Secure Payment Gateway:** Integrates with a secure payment gateway to process transactions safely and efficiently.
- **Payment Instructions:** Provides clear instructions for completing the payment, including steps to follow for different payment methods.

#### 4.3.7.2.4 Receipt and Confirmation:

- **Payment Receipt:** Generates a payment receipt upon successful transaction, which can be downloaded or printed by the applicant.
- **Email Confirmation:** Sends an email confirmation to the applicant, including the receipt and a summary of the application details.
- **Application Summary:** Displays a summary of the entire application, including all provided information, uploaded documents, and the declaration statement.

#### 4.3.7.2.5 Submission and Tracking:

- **Final Submission:** Allows applicants to submit their completed application for final review and approval after declaring and paying the fees.
- **Application Tracking:** Provides a tracking number or application ID for applicants to monitor the status of their submission.
- **Status Updates:** Sends notifications and updates regarding the application status, including any additional actions required or the final decision.

#### 4.3.7.2.6 Review and Edit:

- **Edit Before Submission:** Allows applicants to review and edit their information before final submission, ensuring all details are correct and complete.
- **Error Handling:** Provides error messages and prompts for any missing or incorrect information, guiding applicants to make necessary corrections.

#### 4.3.7.2.7 Save and Resume:

- **Draft Saving:** Allows users to save their progress at any point during the Declaration and Fees step, enabling them to resume the application later without losing any entered information.

- **Auto-Save Feature:** Automatically saves entered information periodically to prevent data loss in case of unexpected interruptions.

#### 4.3.7.3 Demonstration

Declaration And Fees

Registration Number: ALB-2303RE000004MMR4S

The following fee is applicable



Dropdown list of available currencies

Fee Currency

Note:

To pay this fee electronically make a left mouse click on the "Pay Fee" button below. If you intend to or have already paid the required fee directly to the finance section of the department, insert the receipt number issued to you in the field below.

Account Name:  
Bank Name:  
Account Number:  
Swift Code Intermediary:

Open payment online and proceed Pay Fee online

Pay Fee through bank transfer

Slip Image

Payment Date

Payment Time

Amount

Receipt Number (if applicable)

Fees Status

Declaration

At the time of making this application I declare that I:

- am the Authorised Officer for the entity submitting the application;
- am authorised by the applicant to make this application, to deal with all aspects of the registration process for the application and to bind the applicant accordingly;
- take full responsibility for the accuracy and completeness of the material that I have provided as part of this application;
- understand that it is an offence to provide false or misleading information in this application;
- understand that by submitting this application that I make this declaration. By ticking the checkbox below you confirm this declaration:

## 5 ANNEXES

### 5.1 Input Product Details for Various Appliances

#### 5.1.1 Washing Machines

Appliance General Information			
Model identifier			
Type			(Built-in/Free-standing)
Overall dimensions:			
- Height			cm
- Width			cm
- Depth			cm
Rated capacity	c		kg
Minimum duration of the guarantee offered by the supplier			months

#### 5.1.2 Dryers

Appliance General Information			
Model identifier			
Type			(Built-in/Free-standing)
Overall dimensions:			
- Height			cm
- Width			cm
- Depth			cm
Rated capacity	c	kg	Rated capacity kg
Minimum duration of the guarantee offered by the supplier			months

#### 5.1.3 Televisions

Appliance General Information			
Model identifier			
Electronic display category			(Television)
Size ratio			(16:9/21:9/ etc.)
Screen resolution (Horizontal x Vertical)			pixels
Screen diagonal (cm)			cm
Screen diagonal (inch)			inches
Visible screen area			dm <sup>2</sup>
Panel technology used			(LCD/LED LCD/QLED LCD/OLED/etc.)
Minimum guaranteed availability of software and firmware updates (from the date of end of the placement on the market)			Years
Minimum guaranteed availability of spare parts (from the date of end of the placement on the market)			Years
Minimum guaranteed product support			Years
Minimum duration of the general guarantee offered by the supplier			Years

#### 5.1.4 Electric Motors

Parameter	Notes
• Manufacturer's name	
• Year of manufacture	
• Manufacturer's serial number	
• Manufacturer's machine code	
• Number of phases	
• Number of poles	
• Rated Output Power (kW)	by IEC 60034-5:2020
• Operating Voltage Range (V)	
• Operating Current Range (A)	
• Frequency (Hz)	
• Degree of protection (IP code)	
• Maximum safe operating speed	
• Efficiency class (IE code)	
• Thermal class and the limit of temperature rise	
• Rated open-circuit voltage between slip rings and the rated slip-ring current for wound-rotor induction machines	
• Approximate total mass of the motor (kg)	
• Water coolant temperature at the inlet	
• Maximum ambient air temperature	

• Minimum ambient air temperature	
• Maximum operating temperature	
• Potentially explosive atmospheres	

### 5.1.5 Transformers

Parameter	Options	Notes
• Manufacturer's name		
• Year of manufacture		
• Operating ambient conditions		
• Manufacturer's serial number		
• Number of phases		
• Rated Output Power (kVA)		
• Rated Frequency (Hz)		
• Type	<i>Dry, Liquid-filled</i>	
• Number of Windings		
• System Voltage (kV)		
• Fire Rating	<i>Fire Standard, Fire Safer</i>	
• Single Wire Earth Return?	<i>Yes, No</i>	
• Polychlorinated biphenyls (PCB) content		<i>Should be 0</i>
• Weight (kg)		

## 5.2 Input Test Details for Various Appliances

### 5.2.1 Washing Machines

Appliance Test Results				
<b>Energy</b>	Energy consumption [per cycle, eco 40-60 programme] (Rated capacity)	$E_{W,full}$		kWh
	Energy consumption [per cycle, eco 40-60 programme] (Half)	$E_{W,1/2}$		kWh
	Energy consumption [per cycle, eco 40-60 programme] (Quarter)	$E_{W,1/4}$		kWh
	Energy consumption [per cycle, eco 40-60 programme]	$E_W = A \times E_{W,full} + B \times E_{W,1/2} + C \times E_{W,1/4}$	0	kWh
	Weighted energy consumption [per 100 cycles, eco 40-60 programme]	$E_W \times 100$	0	kWh
	Standard energy consumption [per cycle, eco 40-60 programme]	$SCE_W = -0.0025 \times c^2 + 0.0846 \times c + 0.3920$	0.392	kWh
	Energy efficiency Index (EEl) Energy efficiency class	$EEl_W = (E_W/SCE_W) \times 100$	0	(A - G)
<b>Water</b>	Water consumption [per cycle, eco 40-60 programme] (Rated capacity)	$W_{W,full}$		litres
	Water consumption [per cycle, eco 40-60 programme] (Half)	$W_{W,1/2}$		litres
	Water consumption [per cycle, eco 40-60 programme] (Quarter)	$W_{W,1/4}$		litres
	Weighted water consumption [per cycle, eco 40-60 programme]	$W_W = (A \times W_{W,full} + B \times W_{W,1/2} + C \times W_{W,1/4})$	0	litres
<b>Washing efficiency</b>	Washing efficiency index [eco 40-60 programme] (Rated capacity)	$I_W$		
	Washing efficiency index [eco 40-60 programme] (Half)	$I_W$		
	Washing efficiency index [eco 40-60 programme] (Quarter)	$I_W$		
<b>Rinsing effectiveness</b>	Rinsing effectiveness [eco 40-60 programme] (Rated capacity)	$I_R$		g/kg
	Rinsing effectiveness [eco 40-60 programme] (Half)	$I_R$		g/kg
	Rinsing effectiveness [eco 40-60 programme] (Quarter)	$I_R$		g/kg
<b>Programme duration</b>	Programme duration [eco 40-60 programme] (Rated capacity)	$t_w$		(h:mn)
	Programme duration [eco 40-60 programme] (Half)	$t_w$		(h:mn)
	Programme duration [eco 40-60 programme] (Quarter)	$t_w$		(h:mn)
<b>Maximum temperature</b>	Maximum temperature inside the treated load [eco 40-60 programme] (Rated capacity)	T		°C
	Maximum temperature inside the treated load inside the load [eco 40-60 programme] (Half)	T		°C
	Maximum temperature inside the treated load [eco 40-60 programme] (Quarter)	T		°C
<b>Spin speed</b>	Spin speed in the spinning phase [eco 40-60 programme] (Rated capacity)	S		rpm
	Spin speed in the spinning phase [eco 40-60 programme] (Half)	S		rpm
	Spin speed in the spinning phase [eco 40-60 programme] (Quarter)	S		rpm
<b>Spin-drying efficiency</b>	Spin-drying efficiency class			(A - G)
<b>Remaining moisture content</b>	Remaining moisture content [eco 40-60 programme] (Rated capacity)	$D_{full}$		%
	Remaining moisture content [eco 40-60 programme] (Half)	$D_{1/2}$		%
	Remaining moisture content [eco 40-60 programme] (Quarter)	$D_{1/4}$		%
	Weighted remaining moisture content	$D = [A \times D_{full} + B \times D_{1/2} + C \times D_{1/4}]$	0	%
<b>Acoustic airborne noise</b>	Airborne acoustical noise emissions [eco 40-60 programme] (spinning phase)			dB(A) re 1 pW
	Airborne acoustical noise emission class (spinning phase)			(A - D)
<b>Low power modes</b>	Off-mode power consumption (if applicable)	$P_o$		W
	Standby mode power consumption (if applicable)	$P_{sm}$		W
	Does 'standby mode' include the display of information?			(Yes/No)
	Networked standby power consumption (if applicable)			W
	Delay start power consumption (if applicable)	$P_{ds}$		W
	Releases silver ions during the washing cycle			(Yes/No)

## 5.2.2 Dryer

Appliance Test Results										
Energy	Energy consumption [per cycle, eco 40-60 programme] (Rated capacity)	$E_{W,full}$		kWh	Energy consumption	$E_{WD,full}$		kWh		
	Energy consumption [per cycle, eco 40-60 programme] (Half)	$E_{W,1/2}$		kWh	Energy consumption	$E_{WD,1/2}$		kWh		
	Energy consumption [per cycle, eco 40-60 programme] (Quarter)	$E_{W,1/4}$		kWh						
	Energy consumption [per cycle, eco 40-60 programme] Weighted energy consumption [per 100 cycles, eco 40-60 programme]	$E_W = A \times E_{W,full} + B \times E_{W,1/2} + C \times E_{W,1/4}$		0	kWh	Energy consumption	$E_{WD} = [3 \times E_{WD,full} + 2 \times E_{WD,1/2}] / 5$		0	kWh
	Standard energy consumption [per cycle, eco 40-60 programme]	$E_W \times 100$		0	kWh	Weighted energy con	$E_{WD} \times 100$		0	kWh
	Standard energy consumption [per cycle, eco 40-60 programme]	$SCE_W = -0.0025 \times c^2 + 0.0846 \times c + 0.3920$		0.392	kWh	Standard energy cons	$SCE_{WD} = -0.0502 \times d^2 + 1.1742 \times d - 0.644$		0.644	kWh
	Energy efficiency Index (EEI)	$EEI_W = (E_W / SCE_W) \times 100$		0		Energy efficiency Indi	$EEI_{WD} = (E_{WD} / SCE_{WD}) \times 100$		0	
Energy efficiency class				(A - G)	Energy efficiency class			(A - G)		
Water	Water consumption [per cycle, eco 40-60 programme] (Rated capacity)	$W_{W,full}$		litres	Water consumption [	$W_{WD,full}$		litres		
	Water consumption [per cycle, eco 40-60 programme] (Half)	$W_{W,1/2}$		litres	Water consumption [	$W_{WD,1/2}$		litres		
	Water consumption [per cycle, eco 40-60 programme] (Quarter)	$W_{W,1/4}$		litres						
	Weighted water consumption [per cycle, eco 40-60 programme]	$W_W = (A \times W_{W,full} + B \times W_{W,1/2} + C \times W_{W,1/4})$		0	litres	Weighted water cons	$W_{WD} = [3 \times E_{WD,full} + 2 \times E_{WD,1/2}] / 5$		0	litres
Washing efficiency	Washing efficiency index [eco 40-60 programme] (Rated capacity)	$I_W$			Washing efficiency in	$J_W$				
	Washing efficiency index [eco 40-60 programme] (Half)	$I_W$			Washing efficiency in	$J_W$				
	Washing efficiency index [eco 40-60 programme] (Quarter)	$I_W$								
Rinsing effectiveness	Rinsing effectiveness [eco 40-60 programme] (Rated capacity)	$I_R$		g/kg	Rinsing effectiveness	$J_R$		g/kg		
	Rinsing effectiveness [eco 40-60 programme] (Half)	$I_R$		g/kg	Rinsing effectiveness	$J_R$		g/kg		
	Rinsing effectiveness [eco 40-60 programme] (Quarter)	$I_R$		g/kg						
Programme duration	Programme duration [eco 40-60 programme] (Rated capacity)	$t_w$		(h:mn)	Cycle duration (Ratec	$t_{WD}$		(h:mn)		
	Programme duration [eco 40-60 programme] (Half)	$t_w$		(h:mn)	Cycle duration (Half)	$t_{WD}$		(h:mn)		
	Programme duration [eco 40-60 programme] (Quarter)	$t_w$		(h:mn)						
Maximum temperature	Maximum temperature inside the treated load [eco 40-60 programme] (Rated capacity)			°C	Maximum temperature inside the treated load [washing cycle] (Rated capacity)			°C		
	Maximum temperature inside the treated load [eco 40-60 programme] (Half)			°C	Maximum temperature inside the treated load [washing cycle] (Half)			°C		
	Maximum temperature inside the treated load [eco 40-60 programme] (Quarter)			°C						
Spin speed	Spin speed in the spinning phase [eco 40-60 programme] (Rated capacity)	S		rpm						
	Spin speed in the spinning phase [eco 40-60 programme] (Half)	S		rpm						
	Spin speed in the spinning phase [eco 40-60 programme] (Quarter)	S		rpm						
Spin-drying efficiency	Spin-drying efficiency class			(A - G)						
Remaining moisture content	Remaining moisture content [eco 40-60 programme] (Rated capacity)	$D_{full}$		%						
	Remaining moisture content [eco 40-60 programme] (Half)	$D_{1/2}$		%						
	Remaining moisture content [eco 40-60 programme] (Quarter)	$D_{1/4}$		%						
	Weighted remaining moisture content after washing	$D = [A \times D_{full} + B \times D_{1/2} + C \times D_{1/4}]$		0	%	Final moisture content after drying			%	
Acoustic airborne noise emission	Airborne acoustical noise emissions (spinning phase)			dB(A) re 1 pW						
	Airborne acoustical noise emission class (spinning phase)			(A - D)						
Low power modes	Off-mode power consumption (if applicable)	$P_o$		W						
	Standby mode power consumption (if applicable)	$P_{sm}$		W						
	Does 'standby mode' include the display of information?			(Yes/No)						
	Networked standby power consumption (if applicable)			W						
	Delay start power consumption (if applicable)	$P_{ds}$		W						
	Releases silver ions during the washing cycle			(Yes/No)						

### 5.2.3 Televisions

#### Appliance Energy Performance

Energy efficiency class for standard Dynamic Range (SDR)		(A - G)
On mode power demand in Standard Dynamic Range (SDR)		W
Energy efficiency class in High Dynamic Range (HDR) mode		(A - G) or n.a.
On mode power demand in High Dynamic Range (HDR) mode		W
Off mode, power demand		W
Standby mode power demand		W
Networked standby mode power demand		W
Automatic Brightness Control (ABC) available		(Yes/No)
Voice recognition sensor available		(Yes/No)
Room presence sensor available		(Yes/No)
For Auto Power Down (APD):		
- The length of time, following the last user interaction, before the television automatically switches to standby, off-mode, or another condition which does not exceed the applicable power consumption requirements for off-mode or standby-mode		(mn:s)
- For televisions equipped with room presence sensor: the length of time, when no presence is detected, before the television automatically switches to standby, off-mode, or another condition which does not exceed the applicable power demand requirements for off mode or standby mode		(mn:s)
For ABC (If available and activated by default):		
- Percentage of power reduction due to ABC action between the 100 lux and 12 lux ambient light conditions.		%
- On mode power at 100 lux ambient light at the ABC sensor		W
- On mode power at 12 lux ambient light at the ABC sensor		W

### 5.2.4 Electric Motors

Parameter	Options	Notes
• Rated voltage		<i>Or range of Voltage</i>
• Rated frequency (Hz)		
• Rated current		<i>Or range of Current</i>
• Rated speed		<i>Or range of Speed</i>
• Rated power factor(s)		<i>Or range of factors</i>

### 5.2.5 Transformers

Parameter	Options	Notes
• Load Losses (W)		
• No-Load Losses (W)		
• Cooling System Electrical Power (W)		

## 5.3 Input Energy Performance Results for Various Appliances

### 5.3.1 Washing Machines

Appliance Energy Performance				
Energy	Energy consumption [per cycle, eco 40-60 programme] (Rated capacity)	$E_{W,full}$		kWh
	Energy consumption [per cycle, eco 40-60 programme] (Half)	$E_{W,1/2}$		kWh
	Energy consumption [per cycle, eco 40-60 programme] (Quarter)	$E_{W,1/4}$		kWh
	Energy consumption [per cycle, eco 40-60 programme]	$E_w$	0	kWh
	Weighted energy consumption [per 100 cycles, eco 40-60 programme]	$E_w \times 100$	0	kWh
	Standard energy consumption [per cycle, eco 40-60 programme]	$SCE_w$	0.392	kWh
	Energy efficiency Index (EEI)	$EEI_w = (E_w/SCE_w) \times 100$	0	
Energy efficiency class (A - G)				
Programme duration	Programme duration [eco 40-60 programme] (Rated capacity)	$t_w$		(h:mn)
	Programme duration [eco 40-60 programme] (Half)	$t_w$		(h:mn)
	Programme duration [eco 40-60 programme] (Quarter)	$t_w$		(h:mn)
Maximum temperature	Maximum temperature inside the treated load [eco 40-60 programme] (Rated capacity)	T		°C
	Maximum temperature inside the treated load inside the load [eco 40-60 programme] (Half)	T		°C
	Maximum temperature inside the treated load [eco 40-60 programme] (Quarter)	T		°C
Low power modes	Off-mode power consumption (if applicable)	$P_o$		W
	Standby mode power consumption (if applicable)	$P_{sm}$		W
	Does 'standby mode' include the display of information?			(Yes/No)
	Networked standby power consumption (if applicable)			W
	Delay start power consumption (if applicable)	$P_{ds}$		W

### 5.3.2 Dryer

Appliance Energy Performance				
Energy	Energy consumption [per cycle, eco 40-60 programme] (Rated capacity)	$E_{W,full}$		kWh
	Energy consumption [per cycle, eco 40-60 programme] (Half)	$E_{W,1/2}$		kWh
	Energy consumption [per cycle, eco 40-60 programme] (Quarter)	$E_{W,1/4}$		kWh
	Energy consumption [per cycle, eco 40-60 programme]	$E_w = A \times E_{W,full} + B \times E_{W,1/2} + C \times E_{W,1/4}$	0	kWh
	Weighted energy consumption [per 100 cycles, eco 40-60 programme]	$E_w \times 100$	0	kWh
	Standard energy consumption [per cycle, eco 40-60 programme]	$SCE_w = -0.0025 \times c^2 + 0.0846 \times c + 0.3920$	0.392	kWh
	Energy efficiency Index (EEI)	$EEI_w = (E_w/SCE_w) \times 100$	0	
Energy efficiency class (A - G)				
Programme duration	Programme duration [eco 40-60 programme] (Rated capacity)	$t_w$		(h:mn)
	Programme duration [eco 40-60 programme] (Half)	$t_w$		(h:mn)
	Programme duration [eco 40-60 programme] (Quarter)	$t_w$		(h:mn)
Maximum temperature	Maximum temperature inside the treated load [eco 40-60 programme] (Rated capacity)			°C
	Maximum temperature inside the treated load [eco 40-60 programme] (Half)			°C
	Maximum temperature inside the treated load [eco 40-60 programme] (Quarter)			°C
Low power modes	Off-mode power consumption (if applicable)	$P_o$		W
	Standby mode power consumption (if applicable)	$P_{sm}$		W
	Does 'standby mode' include the display of information?			(Yes/No)
	Networked standby power consumption (if applicable)			W
	Delay start power consumption (if applicable)	$P_{ds}$		W

### 5.3.3 Televisions

#### Appliance Energy Performance

Energy efficiency class for standard Dynamic Range (SDR)		(A - G)
On mode power demand in Standard Dynamic Range (SDR)		W
Energy efficiency class in High Dynamic Range (HDR) mode		(A - G) or n.a.
On mode power demand in High Dynamic Range (HDR) mode		W
Off mode, power demand		W
Standby mode power demand		W
Networked standby mode power demand		W
Automatic Brightness Control (ABC) available		(Yes/No)
Voice recognition sensor available		(Yes/No)
Room presence sensor available		(Yes/No)
For Auto Power Down (APD):		
- The length of time, following the last user interaction, before the television automatically switches to standby, off-mode, or another condition which does not exceed the applicable power consumption requirements for off-mode or standby-mode		(mn:s)
- For televisions equipped with room presence sensor: the length of time, when no presence is detected, before the television automatically switches to standby, off-mode, or another condition which does not exceed the applicable power demand requirements for off mode or standby mode		(mn:s)
For ABC (If available and activated by default):		
- Percentage of power reduction due to ABC action between the 100 lux and 12 lux ambient light conditions.		%
- On mode power at 100 lux ambient light at the ABC sensor		W
- On mode power at 12 lux ambient light at the ABC sensor		W

### 5.3.4 Electric Motors

Parameter	Options	Notes
• Nominal efficiency ( $\eta$ ) at 100% rated load and voltage (UN)		as specified in IEC 60034-30-1:2014
• Nominal efficiency ( $\eta$ ) at 75 % rated load and voltage (UN)		as specified in IEC 60034-30-1:2014
• Nominal efficiency ( $\eta$ ) at 50 % rated load and voltage (UN)		as specified in IEC 60034-30-1:2014
• Rating and performance standard(s) which are applicable		
• Output Power (kW)		

### 5.3.5 Transformers

Parameter	Options	Notes
• Power efficiency @ 50% load ( $El_{A50}$ (%))		