



With support from:



Significance and benefits of Product Registration System

A key tool of monitoring, verification and enforcement (MVE)
with overview of U4E PRS software

Madeleine Edl and Saikiran Kasamsetty, UNEP-U4E

31 August 2021

Why is a Product Registration System important and what is it?

HOW

DOES A PRODUCT REGISTRATION SYSTEM WORK?



TEST PRODUCT



A test laboratory, or conformity assessment body, selects samples of the product and undertakes testing in accordance with the applicable standard.

APPLICATION



The applicant (manufacturer, importer or distributor) opens an account in the product registration system and completes an application form for approval of their product. Supporting information, such as a test report, may also be required.

ASSESSMENT



The programme manager/regulatory authority reviews the submitted application and accompanying documentation for compliance with the requirements of the standards and labelling scheme.

APPROVAL & ACCESS TO MARKET



If the review confirms the product complies with the governing energy efficiency regulations, such as standards and labelling, then the regulator approves the product for import and sale.

SEVERAL COUNTRIES TOGETHER



STANDALONE SYSTEM

National PRS



WHY

SHOULD I IMPLEMENT A PRODUCT REGISTRATION SYSTEM (PRS)?

Transition
your markets to
energy efficient
products!



In countries with a PRS, products must be registered before they can enter the market

Creates a database
with product
information



Policy
development

can be based on detailed
data that is readily available

Monitors which products
are sold in the
market



Ensures
compliance

with national policies,
e.g. on energy efficiency

Places information on environmental
impact of the products at the
fingertips of government



Policymakers

can access baseline data and track
efficiency trends and improvements

Fosters economic
development



Reduces
barriers to

trade by creating transparent
market regulations and protects those
manufacturers complying with requirements

Encourages consumers to
choose energy-efficient
products



Enabling
consumers

to access the database helps them to compare
market offerings to make informed choices about
the energy efficiency of products and lifetime cost

What is the U4E doing on PRS?

Overview of the U4E project activities (1)

- Software development -

Developed in cooperation with:  IIEC
International Institute for Energy Conservation

General U4E tool:

- Development of a prototype Product registration system (PRS) system for application in countries without a PRS
- Development based on **best practice functionalities** and designed in a **modular manner**



**U4E Product
Registration Tool for
Global Application**

In cooperation with the ASEAN Centre for Energy (ACE):

- Development a regional product registration database that connects all countries in the region
- Development of common datapoints for regional exchange of data
- Agreed to policy roadmap on the implementation of the database



**Regional Product
Registration Database**

Products included:

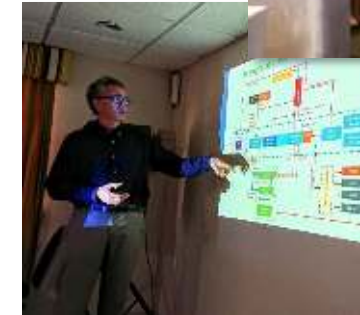


Overview of the U4E project activities (2)

- Training and capacity building -

Regional cooperation:

- **Capacity buildings with ACE and the ASEAN** countries during workshops, Technical Working Group and other meetings
- **Workshop with six Caribbean countries** on the use and implementation of a PRS

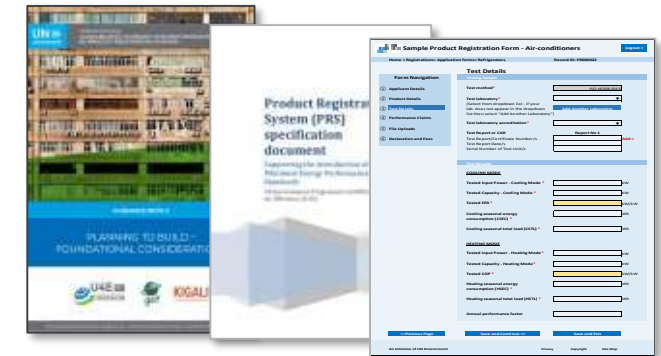


National support:

- Development of **technical recommendations** for a PRS in Rwanda
- Further capacity buildings for **Chile, Pakistan and Senegal**

Development of tools:

- Series of **guidance notes, technical specifications and a PRS framework**



What support and tools are available on PRS?

WHAT

SUPPORT CAN I GET TO IMPLEMENT A PRODUCT REGISTRATION SYSTEM?



Available for implementation in your country

United for Efficiency Prototype

Welcome to the U4E Product Registration System
To legally import and/or sell a product registered for energy efficiency into a participating ...

Email:

Password:

Forgot Password

☐ Not a member? Create new account

AIR CONDITIONERS

REFRIGERATORS

LIGHTING

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 legislative 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 PRS prototype to develop as their own national systems.

Available for implementation in your region

United for Efficiency Database

Country of registration	Brand	Model number	MEPS requirement	Technology	Product category	Product sub-category	Cooling capacity
up to 4 units	Search	Search	Search	Search	Search	Search	Search
<input type="checkbox"/> Vietnam	Mitsubishi	MSZ-LJ14	5	Inverter	Outdoor split	Packaged	4.1
<input type="checkbox"/> Thailand	Mitsubishi	MSZ-LJ14	5	Inverter	Outdoor split	Packaged	4.1
<input type="checkbox"/> Philippines	TOCHIKA	BAQ-E10U	5	Inverter	Self-contained	Single split system	4.3
<input type="checkbox"/> Indonesia	UPES	UPH-2040	5	Inverter	Self-contained	Activate Windows Single split system	4.3

As implemented in Southeast Asia in cooperation with the ASEAN Centre for Energy

Technical specifications for the system and guidance notes on PRS and their benefits are available for download!

GET THEM ALL AT [HTTPS://UNITED4EFFICIENCY.ORG/PRODUCT-REGISTRATION-SYSTEMS](https://UNITED4EFFICIENCY.ORG/PRODUCT-REGISTRATION-SYSTEMS)

BENEFITS



Based on best-practice functionalities which can be personalized

U4E guidance to implement the framework



No need to start from scratch

Additional product categories can be added due to the modular structure of the system



Open source

Designed to work with slow connections and data requests

Flexible deployment: Windows/Linux, cloud/on-site

Product Registration System-Guides & Tools

4 Guidance Notes

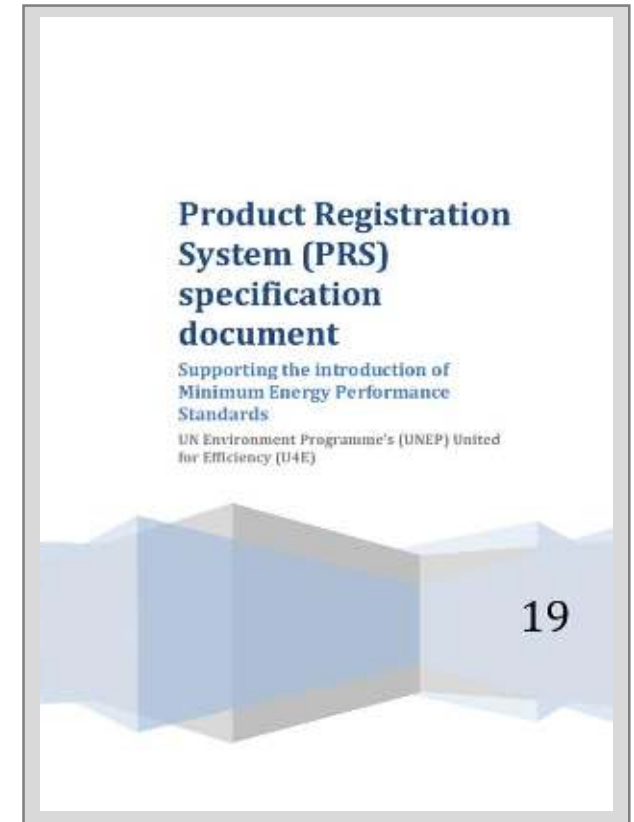


Initial guidance for interested stakeholders

Outline

Framework with recommended pages and fields

Specifications



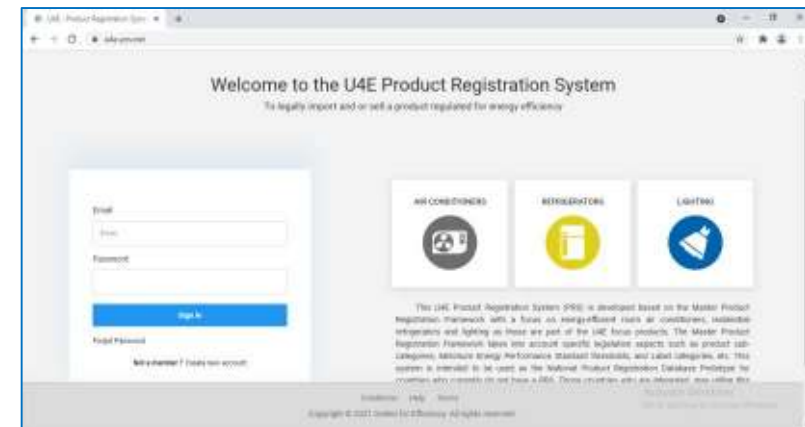
Specifications for a software developer to develop a PRS

Resource: <https://united4efficiency.org/product-registration-systems/>

Live walk through the national prototype

What is the prototype?

A software template that can be implemented by government officials as a National Product Registration System in a country.





Overview of ASEAN Regional Product Registration Database

Madeleine Edl, UNEP-U4E

31 August 2021



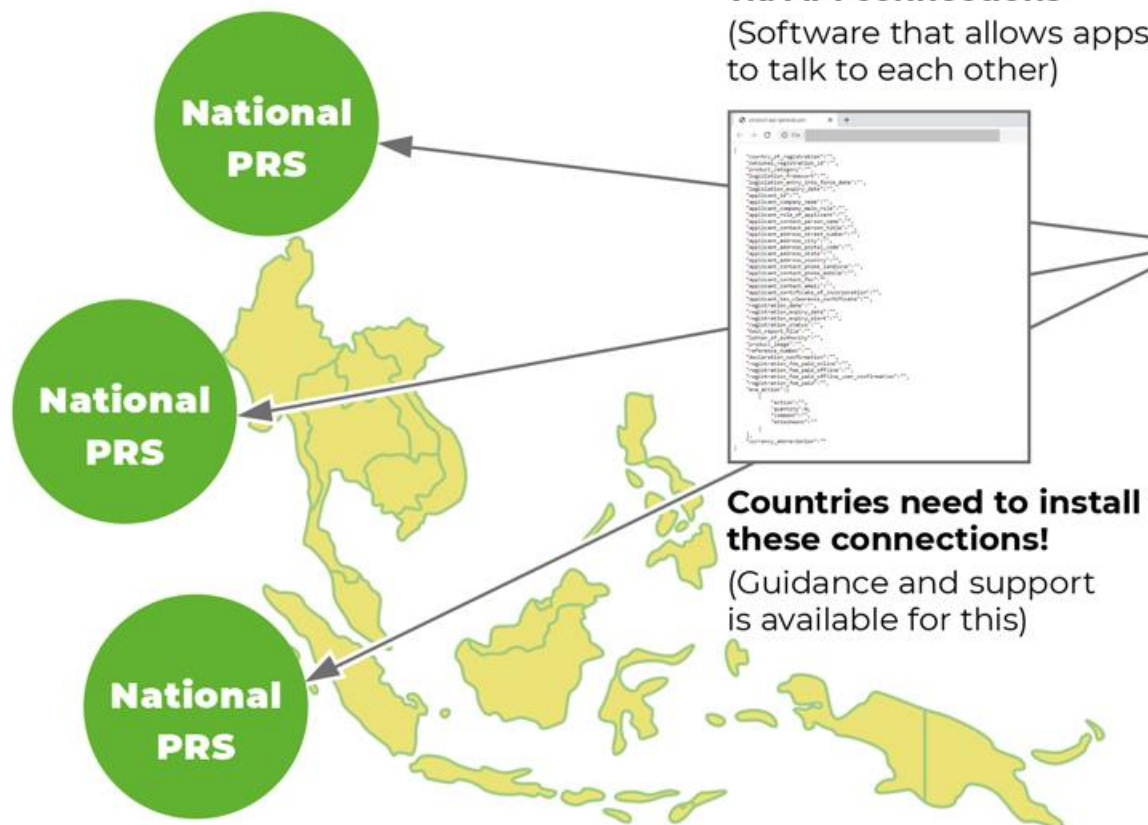
DATA EXCHANGE IN SOUTHEAST ASIAN SYSTEM



Existing national systems

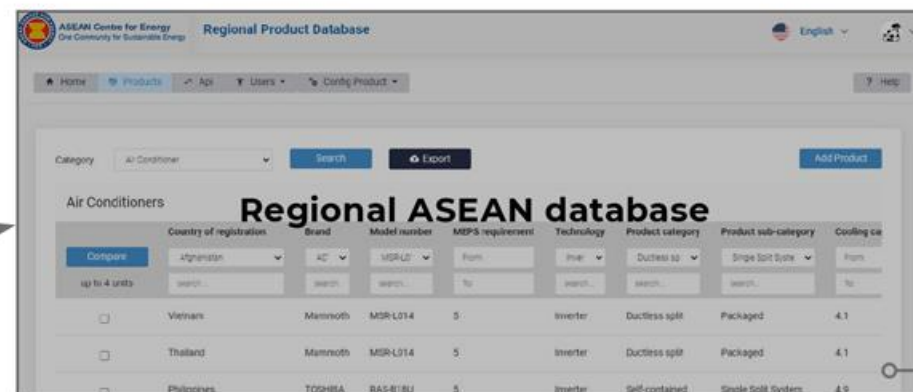
Data transferred via API connections

(Software that allows apps to talk to each other)



Products continue to be registered in existing national PRS

The regional system collects the information from the national systems in a common database

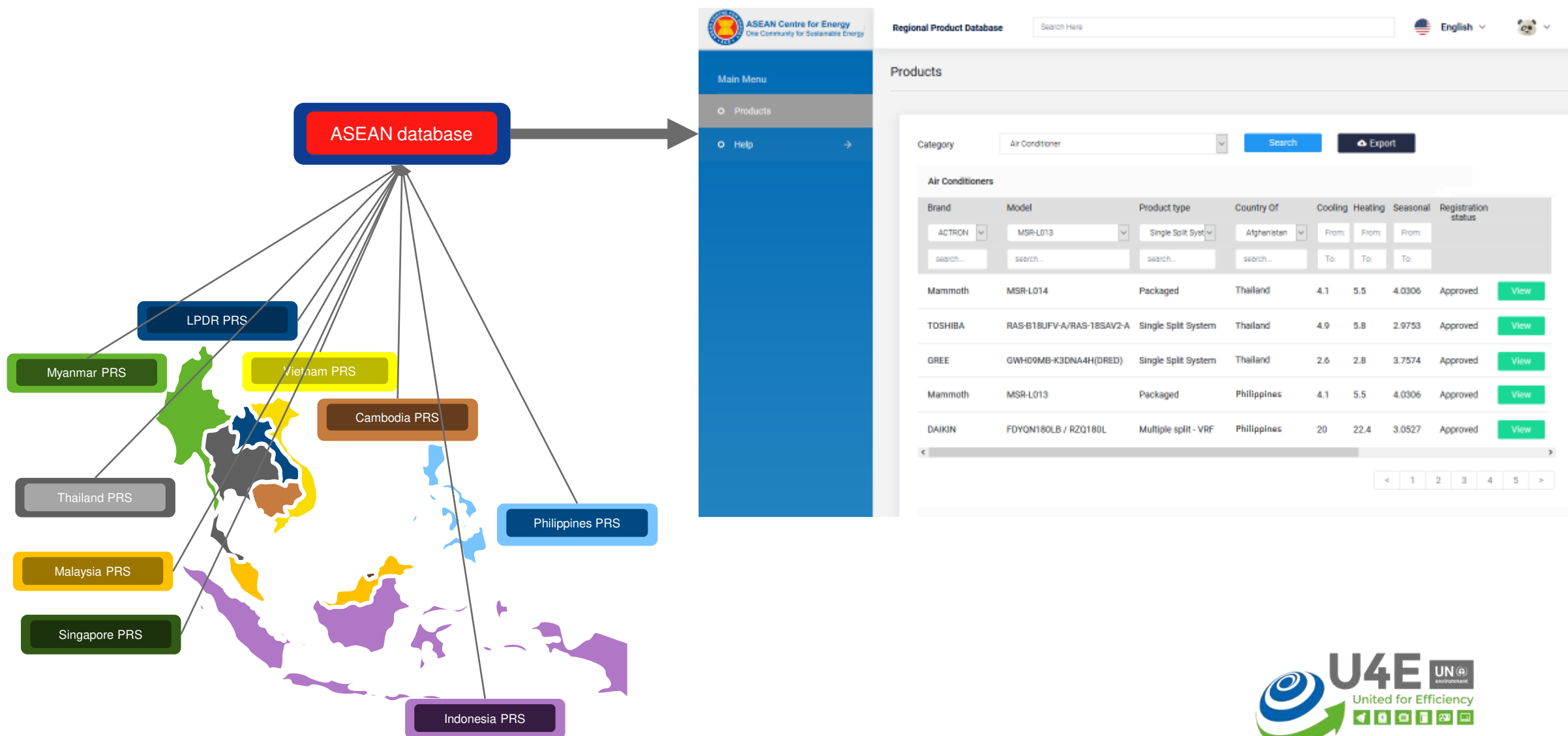


Access to the database is restricted to the ASEAN Centre for Energy and the national regulators from the 10 ASEAN countries.

The **benefits** of the regional database for all users are:

- Visibility of products allowed for sale in other countries
- Notification of new products in other countries
- Notification of products revoked in other countries
- Facilitates application of Mutual Recognition Agreements
- Ultimately, this information helps the region to adjust their policies better and to create synergies in transforming their markets to energy-efficient products

Example Compliance with MEPS



Example Compliance with MEPS



ASEAN Centre for Energy
One Community for Sustainable Energy

Regional Product Database

Search Here

English

Main Menu

- Products
- Help

Products

Category: Air Conditioner

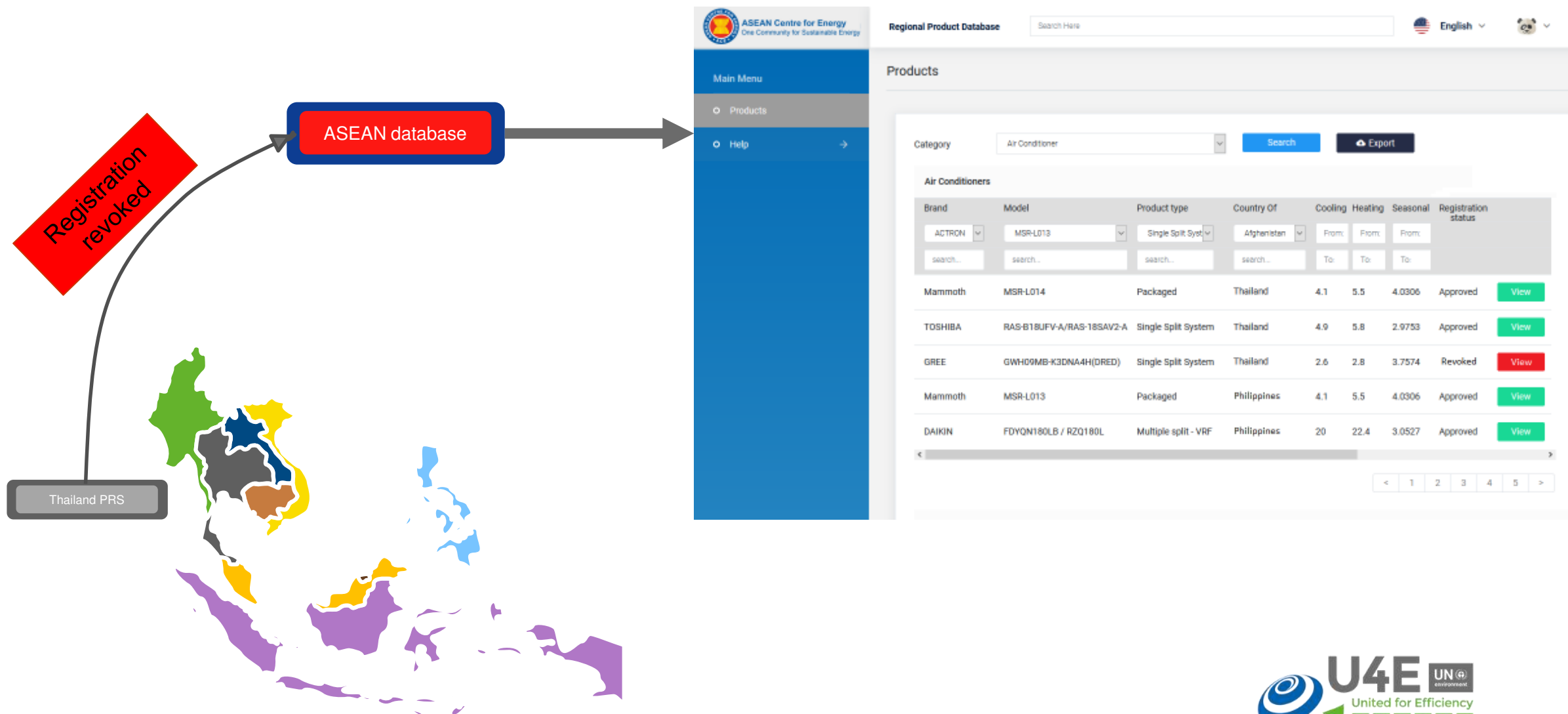
Search Export

Air Conditioners

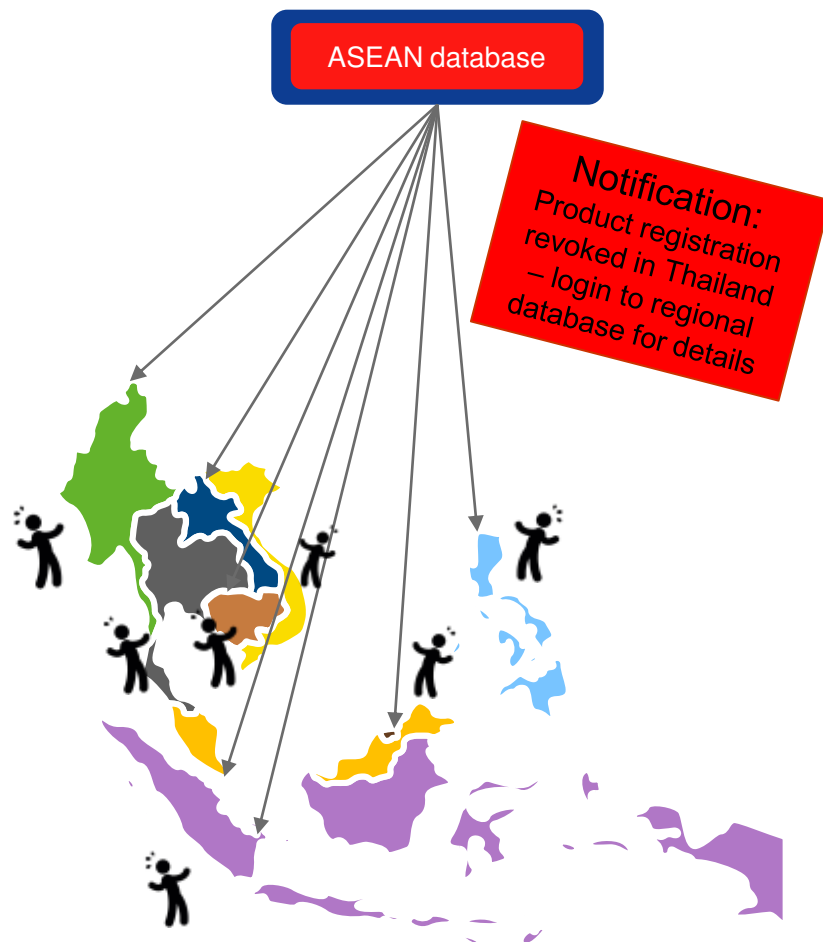
Brand	Model	Product type	Country Of	Cooling	Heating	Seasonal	Registration status
ACTRON	MSR-L013	Single Split Syst	Afghanistan	From:	From:	From:	
search...	search...	search...	search...	To:	To:	To:	
Mammoth	MSR-L014	Packaged	Thailand	4.1	5.5	4.0306	Approved View
TOSHIBA	RAS-B18UFV-A/RAS-18SAV2-A	Single Split System	Thailand	4.9	5.8	2.9753	Approved View
GREE	GWH09MB-K3DNA4H(DRED)	Single Split System	Thailand	2.6	2.8	3.7574	Approved View
Mammoth	MSR-L013	Packaged	Philippines	4.1	5.5	4.0306	Approved View
DAIKIN	FDYQN180LB / RZQ180L	Multiple split - VRF	Philippines	20	22.4	3.0527	Approved View

< 1 2 3 4 5 >

Example Compliance with MEPS



Example Compliance with MEPS



ASEAN Centre for Energy
One Community for Sustainable Energy

Regional Product Database

Search Here

English

Main Menu

- Products
- Help

Products

Category: Air Conditioner

Search Export

Air Conditioners

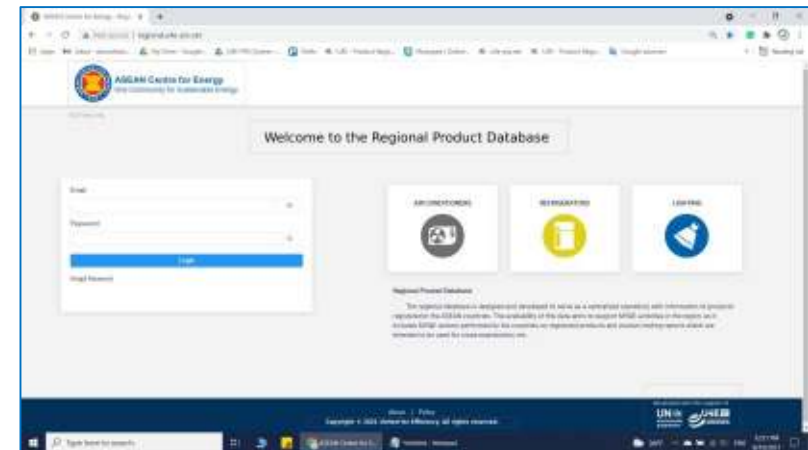
Brand	Model	Product type	Country Of	Cooling	Heating	Seasonal	Registration status
ACTRON	MSR-L013	Single Split Syst	Afghanistan	From	From	From	
search...	search...	search...	search...	To	To	To	
Mammoth	MSR-L014	Packaged	Thailand	4.1	5.5	4.0306	Approved View
TOSHIBA	RAS-B18UFV-A/RAS-18SAV2-A	Single Split System	Thailand	4.9	5.8	2.9753	Approved View
GREE	GWH09MB-K3DNA4H(DRED)	Single Split System	Thailand	2.6	2.8	3.7574	Revoked View
Mammoth	MSR-L013	Packaged	Philippines	4.1	5.5	4.0306	Approved View
DAIKIN	FDYQN180LB / RZQ180L	Multiple split - VRF	Philippines	20	22.4	3.0527	Approved View

< 1 2 3 4 5 >

Live walk through the database

What is the database?

It is also a software template as the prototype, though it is not a PRS but a database. Meaning that it serves as a regional data depository for managing data that is provided by countries with a PRS.



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



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

[Conditions](#) [Help](#) [Terms](#)

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Activate Windows
Go to Settings to activate Windows.



Main Menu

- Dashboard
- Products
- General Settings →
- Air Condition Settings →
- Refrigerators Settings →
- Lighting Settings →
- Users →
- Manufacturer →
- Account →
- Help →

Dashboard

From Date:

To Date:

Product Registrations
All
593

Product Registrations
In progress
68

Applicants
All
164

Payment
All
3173.59\$

How many product registrations have been approved?

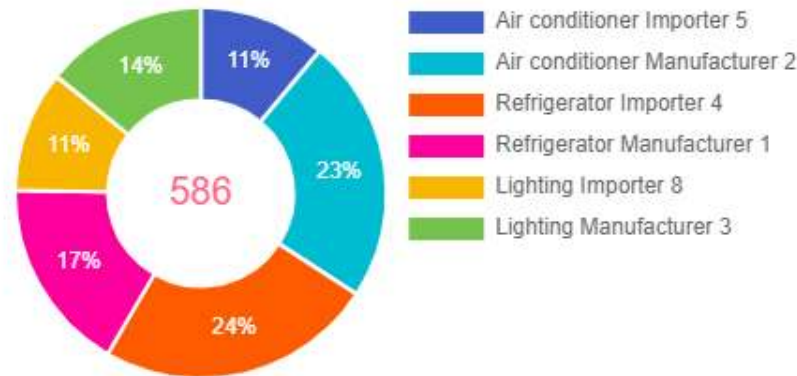
Product Registration Status

Activate Windows
Go to Settings to activate Windows.



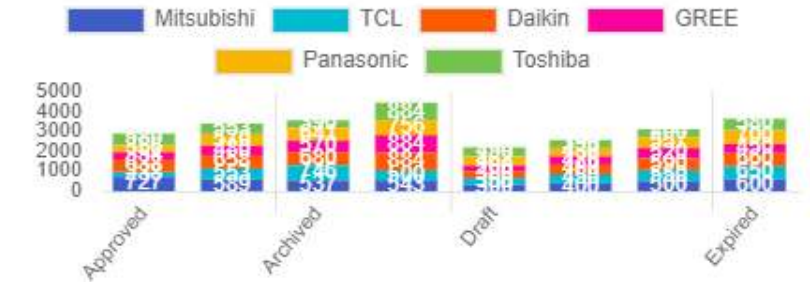
- Account →
- Help →
- Api →

How many product registrations have been approved?



Product Category	Record Count
1. Air conditioner	164
2. Refrigerator	197
3. Lighting	225

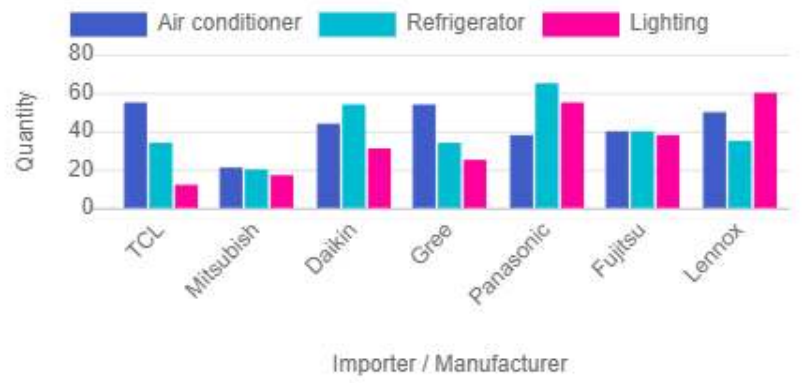
Product Registration Status



Status	Air Con	Lighting	Refrig
1 Approved	2	2	2
2 Rejected		3	
3 Archived			
4 Revoked	1		
5 Draft		5	
5 In Progress		4	

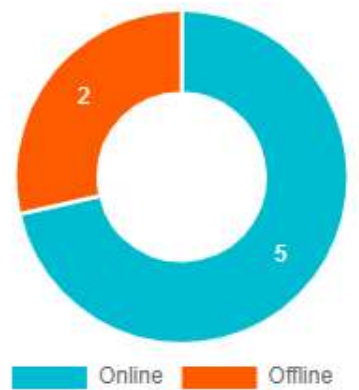


Product Registration System



	Importer/Manufacturer	Air Con	Lighting	Refrige
1	Daikin	44		
2	Mitsubishi	21		
3	Philips		20	
4	Samsung	12		5
5	Hitachi			10

5	In Progress	4
6	Needs more information	5
5	Expired	6



	Payment Method	Applicants
1	Online	120,000
2	Offline	90,000



Pending Actions : Applicants Approval

Date	Applicant ID	Company name	Requested role	Status	
12/09/2020	IC-20000001	Mitsubishi	Lead	Waiting for verification	Edit
13/09/2020	IC-20000002	Carrier	Assistant	Needs more information	Edit
14/09/2020	IC-20000003	Samsung	Lead	Approved	Edit
15/09/2020	IC-20000004	Haier	Assistant	Rejected	Edit



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- Lighting Settings →
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Products

Category

Refrigerator

Export

Add Product

Refrigerators

Brand name	Model number	Manufacturing country	Product type	Maximum annual energy consumption (kWh)	Energy efficiency rating	Registration
<input type="text" value="Search ..."/>	<input type="text" value="Search ..."/>	<input type="text" value="Search ..."/>	<input type="text" value="Search ..."/>	<div><input type="text" value="From"/> <input type="text" value="To"/></div>	<input type="text" value="Search ..."/>	
3M	test submit re-1	Bhutan	Refrigerator-freezer	163.9400	High Efficiency	Ap
Panasonic	GWH-09MB	Thailand	Refrigerator-freezer	256.5600	Low Efficiency (First)	Ap
Electrolux	xyzwww	Thailand	Refrigerator	118.3000	High Efficiency	In

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Product Registration Process

Initiation

Product Registration Initiation

Country where applicant is applying for registration *

Myanmar

Select the type of product you wish to register

Air Conditioner ▾

Legislation framework (energy performance standards) *

U4E model regulation Air Conditioners 2022

Save

Save and Continue>>



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- Lighting Settings →
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- Account →
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Product Registration Process

- Initiation
- Applicant Details
- Product Details

Progress Status

- ☐ Approve
- ☐ Rejected
- ☐ Revoked
- ☐ Need more information

Applicant Details

Registration Number: MMR-2108AC000049MMR9

Company name *	test send mail	Export
Company's main role *	Chief ▾	
Role of applicant *	Manufacturer ▾	
Contact person's name *	manager	
Contact person's title		
Address: Street, number *	bangkok	
Address: City *	bangkok	
Address: Postal code *	2365	

Activate Windows
Go to Settings to activate Windows.



Main Menu

- Dashboard
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- Lighting Settings →
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- Help →

Product Registration Process

Initiation

Applicant Details

Product Details

Progress Status

- ☐ Approve
- ☐ Rejected
- ☐ Revoked
- ☐ Need more information

General Details

Registration Number: MMR-2108AC000049MMR9

Brand name *

ACTRON AIR

Add

Model number *

Part of a model family with same characteristics? *

No

Global trade itemnumber

Manufacturers name *

Country of manufacturer or Country of origin *

Afghanistan

Date of product availability *

24/08/2021

Projected annual sales (product

Activate Windows
Go to Settings to activate Windows.



Product Registration System



English ▾

administrator ▾

☐ Online Fee
payment complete

Comment

Rated output capacity (Watt) *

Rated EER (w/w) *

1

Refrigerant Data

Refrigerant type *

R-134a ▾

Refrigerant charge (kg) *

0.02

Is refrigerant pre-charged in
appliance? *

Yes ▾

Refrigerant GWP

1300.00

Refrigerant ODP

0.00

Activate Windows

Go to Settings to activate Windows.



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- Lighting Settings →
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- Account →
- Help →

Product Registration Process

Initiation

Applicant Details

Product Details

Test Details

Progress Status

- ☐ Approve
- ☐ Rejected
- ☐ Revoked

Test Details

Registration Number: MMR-2108AC000049MMR9

Testing Standard *

ISO 16358: 2013

Test Results - Air Conditioner

Cooling Mode

Test Result Cooling (As Per ISO 16358-1)

FULL

Full capacity - Standard T (35°C) *

Full power input - Standard T (35°C) *

Full capacity - Standard T (29°C)

Full power input - Standard T (29°C)

Degradation Coefficient

Activate Windows

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Product Registration System

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Product Registration Process

- Initiation
- Applicant Details
- Product Details
- Test Details
- Performance summary

Progress Status

- Approve
- Rejected

Energy Performance

Registration Number: MMR-2108AC000049MMR9

Claimed CSPF

Claimed EER

CSPF

EER

Minimum energy performance requirements for cooling-only (CSPF)

Minimum energy performance requirements for cooling-only (EER)

Does this product meet the min. energy performance requirements?

Does the product meet the min. refrigerant performance requirements?

Activate Windows
Go to Settings to activate Windows.



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- Account →
- Help →

Product Registration Process

- Initiation
- Applicant Details
- Product Details
- Test Details
- Performance summary
- File uploads

Progress Status

○ Approve

File Uploads

Registration Number: MMR-2108AC000049MMR9

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 *

Air Conditioner - Test L ▾

Add

Test laboratory accreditation *

Air Conditioner - Test Laboratory A ▾

Test report number *

Test report date *

Test report - serial number of test unit *

Test Standard*

☐ ISO 16358: 2013

Activate Windows

Go to Settings to activate Windows.



Main Menu

- Dashboard
- Products
- General Settings ↓
 - Bulk upload
 - MVE
 - Product Category
 - Test Laboratory
 - Test Laboratory Accreditation
 - Refrigerant
 - Blowing Agent
- Air Condition Settings →
- Refrigerators Settings →

Setting: Bulk Upload

Disable ☒ Enable

Save

Activate Windows
Go to Settings to activate Windows.



Main Menu

- Dashboard
- Products
- General Settings ▼
 - Bulk upload
 - MVE
 - Product Category
 - Test Laboratory
 - Test Laboratory Accreditation
 - Refrigerant
 - Blowing Agent
- Air Condition Settings →
- Refrigerators Settings →

Setting: MVE Actions

Add

Text	Seq		
<input type="text"/>			
Offline fee payment for product registration	1	Delete	Edit
Product registration approval	2	Delete	Edit
In-country product sales	3	Delete	Edit
Product import	4	Delete	Edit
Product export	5	Delete	Edit
3rd party test	6	Delete	Edit
Enforcement actions	7	Delete	Edit

Activate Windows
Go to Settings to activate Windows.



Main Menu

- Dashboard
- Products
- General Settings ▾

Bulk upload

MVE

Product Category

Test Laboratory

Test Laboratory Accreditation

Refrigerant

Blowing Agent

- Air Condition Settings →
- Refrigerators Settings →

Setting: Product Category

Text	Seq	
<input type="text"/>		
Air Conditioner	1	Edit
Refrigerator	2	Edit
Lighting	3	Edit

Activate Windows

Go to Settings to activate Windows.



Main Menu

- Dashboard
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 - Bulk upload
 - MVE
 - Product Category
 - Test Laboratory
 - Test Laboratory Accreditation
 - Refrigerant
 - Blowing Agent
- Air Condition Settings
- Refrigerators Settings

Setting: Refrigerants

(Source: UNFCCC)

Add

Air Conditioner

Refrigerator

Text	ODP	GWP	Seq		
R-134a	0.00	1300.00	1	Delete	Edit
R600A	0.00	3.00	2	Delete	Edit
R22	0.05	1760.00	3	Delete	Edit
R290	0.00	3.00	4	Delete	Edit
R407C	0.00	1774.00	5	Delete	Edit



Main Menu

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 - Bulk upload
 - MVE
 - Product Category
 - Test Laboratory
 - Test Laboratory Accreditation
 - Refrigerant
 - Blowing Agent
- Air Condition Settings
- Refrigerators Settings

Setting: Blowing Agents

(Source: UNFCCC)

Add

Text	ODP	GWP	Seq		
Cyclopentane	0.00	5.00	1	Delete	Edit
n-pentane	0.00	5.00	2	Delete	Edit
isopentane	0.00	5.00	3	Delete	Edit
HFC-245fa	0.00	858.00	4	Delete	Edit
HCFC-141b	0.11	725.00	5	Delete	Edit
HCFC-142b	0.06	2310.00	6	Delete	Edit
HFC-134a	0.00	1300.00	7	Delete	Edit



Main Menu

- Dashboard
- Products
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- Air Condition Settings ↓
- Brand
- Legislation
- Refrigerators Settings →
- Lighting Settings →
- Users →
- Manufacturer →

Setting: Brand

Add

Text	Seq		
<input type="text"/>			
ACTRON AIR	1	Delete	Edit
Samsung	2	Delete	Edit
GREE	3	Delete	Edit
Mammoth	4	Delete	Edit
MITSUBISHI HEAVY INDUSTRIES, LTD	5	Delete	Edit
Mitsubishi Electric	6	Delete	Edit
SPECIALIZED ENGINEERING	7	Delete	Edit

Activate Windows
Go to Settings to activate Windows.



Main Menu

- Dashboard
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- Air Condition Settings ↓
 - Brand
 - Legislation
- Refrigerators Settings →
- Lighting Settings →
- Users →
- Manufacturer →

Legislation Framework

Legislation Title		Published	Preview	
U4E model regulation Air Conditioners 2022	Duplicate	✓	Preview	Edit
U4E model regulation Air Conditioners 2022 - duplicate	Duplicate	✗	Preview	Edit

Users

×

+

←

→

↺

u4e-prs.net/users

☆

⚙

👤

⋮

U4E

UN

United for Efficiency

🌐

🔒

📱

💻

☰

Product Registration System

🇺🇸

English

▼

administrator

▼

Main Menu

○ Dashboard

○ Products

○ General Settings →

○ Air Condition Settings →

○ Refrigerators Settings →

○ Lighting Settings →

○ Users ↓

Users

User Role

○ Manufacturer →

Users

Add


Name	Email	User Type	Role	Status
<input type="text"/>	<input type="text"/>	All ▼	All ▼	All ▼
liec	Ttkullakant@test.com	Manufacturer	Level 3.5 - Manuf./Import. Administrator	Wait for approval
Aaa	Aaa	Manufacturer	Level 3.5 - Manuf./Import. Administrator	Wait for approval
MA-TEST	if@MA-TEST.com	Manufacturer	Level 3.5 - Manuf./Import. Administrator	Wait for approval
test	test_assistant_lv3@mail.com	Manufacturer	Level 3.5 - Manuf./Import. Administrator	Active
UNEP	patrick.blake@un.org	Manufacturer	Level 3.5 - Manuf./Import. Administrator	Wait for approval
test22july21	test22july21@iiec.org	Manufacturer	Level 3.5 - Manuf./Import. Administrator	Inactive
test add level 2	testaddlevel2@iiec.org	Manufacturer	Level 2 - Partner Read-only	Inactive

Activate Windows


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User role

u4e-prs.net/userrole

U4E
United for Efficiency

Product Registration System

 English administrator

Main Menu

Dashboard

Products

General Settings →

Air Condition Settings →

Refrigerators Settings →

Lighting Settings →

Users ↓

Users

User Role

Manufacturer →

User Role

Add

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

Activate Windows
Go to Settings to activate Windows.



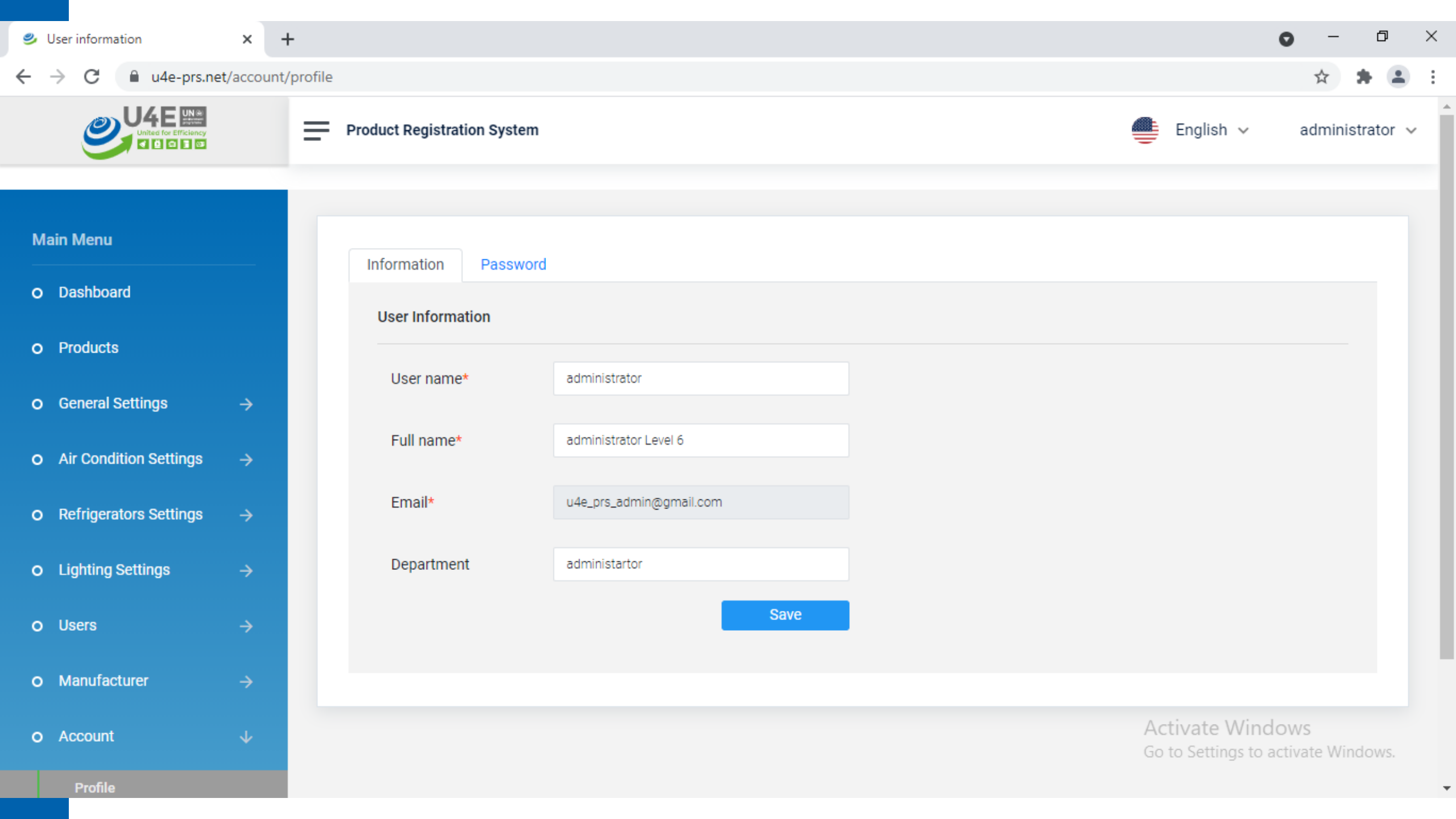
Main Menu

- Dashboard
- Products
- General Settings →
- Air Condition Settings →
- Refrigerators Settings →
- Lighting Settings →
- Users →
- Manufacturer ▾
- Manufactures
- Account →

Manufacturers

Add

Name	Email	Status		
<input type="text"/>	<input type="text"/>	All ▾	<input type="button" value="Search"/>	
liec	Ttkullakant@test.com	Wait for verify	<input type="button" value="Delete"/>	<input type="button" value="Edit"/>
Aaa	Aaa	Wait for verify	<input type="button" value="Delete"/>	<input type="button" value="Edit"/>
MA-TEST	if@MA-TEST.com	Wait for verify	<input type="button" value="Delete"/>	<input type="button" value="Edit"/>
test	test_assistant_lv3@mail.com	Wait for verify	<input type="button" value="Delete"/>	<input type="button" value="Edit"/>
UNEP	patrick.blake@un.org	Wait for verify	<input type="button" value="Delete"/>	<input type="button" value="Edit"/>
test22july21	test22july21@iiec.org	Wait for verify	<input type="button" value="Delete"/>	<input type="button" value="Edit"/>
Wilaiwan Testina Company	wkunchansombuttestina1@iiec.or	Wait for verifv	<input type="button" value="Delete"/>	<input type="button" value="Edit"/>





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