



***lites.asia* Regional Lighting Policy Meeting**

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Registration Databases and Compliance

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*On behalf of the Super-efficient Equipment and
Appliance Deployment (SEAD) Initiative*



Agenda

3

- The SEAD Initiative and Work on Product Registries
- What is a Product Registry
- How Product Registries Support MVE Programmes, with examples from Australia, India, US, and the EU
- Planned Product Registry Activity for the South-East Asia and Pacific Islands MVE Project

The SEAD Initiative



4

■ Governments working together to save energy



Australia



Brazil



Canada



Chile



European
Commission



Germany



India



Indonesia



Japan



Korea



Mexico



Russia



South Africa



Sweden



United Arab
Emirates



United Kingdom



United States

• China is an observer to the SEAD Initiative

- Accelerating pace of market transformation to more energy efficient products
- Through technical analysis and assistance, sharing of information and best practice, and practical activities, including on Product Registries and Databases

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What is a Product Registry?

5

- National or regional registration/information system
- From basic list to comprehensive online searchable tool
- Used by different stakeholders of S&L and MVE programmes
- Contains product data to support successful implementation of appliance energy efficiency S&L programmes
- Public or confidential data (or both)
- Data applied to different S&L and MVE programme needs:
 - Product registration / certification for entry onto market
 - Informing policy: baselines, benchmarking, market analysis, modelling, monitoring the market
 - Product verification / testing database
 - Consumer awareness on appliance energy efficiency

Why the need for a Product Registry?

Better access to product data = better decisions

- Policymakers and Scheme Administrators
 - Prioritizing products for policy attention and revision
 - Selecting levels and future targets for S&L policies
 - Program evaluation and comparison with other regions
 - Market monitoring and compliance verification framework
- Manufacturers
 - Product design and development strategy
 - One-stop for product registrations and compliance information
- Consumers
 - Informed purchase decisions

Data Types and Sources

- Types
 - Model names and numbers
 - Sales
 - Prices
 - Energy performance and energy ratings
 - Other product attributes
- Sources
 - Public product certification databases
 - Commercial data providers (NPD, GfK, Euromonitor)
 - Manufacturer and retailer websites and catalogs
 - Confidential manufacturer reporting to governments
 - Reports (rare)

How do Registries support MVE Programmes?

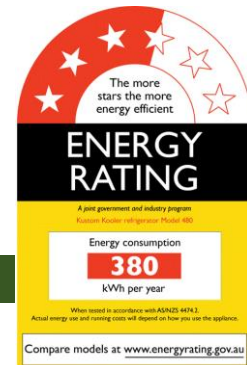
8

- Product registration/certification → initial compliance gateway
 - Applicants register compliant products with technical documentation
 - Must comply to get energy efficiency label and entry onto market
 - Manufacturers' provide their contact details & other important info
- Information portal for stakeholders
 - Consumers and competitors can register complaints
 - Can record and communicate non-compliance to stakeholders
- Informs verification and testing programmes
 - When used at customs to control entry onto market
 - Can help identify products for testing
 - Information sharing on product testing & results on a regional basis

Australia's E3 Energy Rating Label Tool

www.energyrating.gov.au

9



Equipment Energy Efficiency (E3) Programme

- Regional co-funded collaboration between the Australian Government, Australian State and Territory Governments and the New Zealand Government



Air Conditioners - AS/NZS 3823.2

Brand Name
Any

Cycle Type
All

Installation Type
All

Output Range
All

Model name/number - type in all or part of the model number (if known) (optional)
Results per page
20

☐ Include run-out products that are no longer manufactured in or imported into Australia/New Zealand

Search

Cost Calculator

Electricity Cost
25.9 c/kWh

Hours use/year Cooling
200

Hours use/year Heating
200

Show Energy Costs for
10 years

Recalculate Costs

[Help on headings](#)
[Comprehensive detail](#)
[Search for a different product type](#)
[Download CSV](#)
[Advanced Search](#)

Search Results

Calculator Result	Brand	Model	Installation Type	Indoor air distribution	Phase	Available	Country of Manufacture	Star Rating
5539	DAIKIN	FTX25N / RX225N	Single Split System	Non Ducted	Single	Australia, New Zealand	Japan	3 stars
5544	LG	K09AWN-NM12K09AWN-UM12	Single Split System	Non Ducted	Single	Australia, New Zealand	"Korea, Republic of"	3 stars
5544	LG	K09AWN-NM12K09AWN-UM12	Single Split System	Non Ducted	Single	Australia, New Zealand	"Korea, Republic of"	3 stars
5865	DAIKIN	FTX35N / RX325N	Single Split System	Non Ducted	Single	Australia, New Zealand	Japan	3 stars
5544	LG	K09AWN-NM11K09AWN-UM11	Single Split System	Non Ducted	Single	Australia, New Zealand	"Korea, Republic of"	3 stars
5704	DAIKIN	FFQ25C2 / RX325K3	Single Split System	Non Ducted	Single	Australia, New Zealand	Czech Republic	3 stars
5218	FUJITSU	ASTG07CMCA/KOTG07CMCA	Single Split System	Non Ducted	Single	Australia, New Zealand	China	3 stars
5554	SAMSUNG ELECTRONICS	AQV09KWNWNAQV09KWNAX	Single Split System	Non Ducted	Single	Australia, Fiji, New Zealand	China	3 stars
5591	SAMSUNG ELECTRONICS	AR09FSSCHWNAK09FSSCHWAKX	Single Split System	Non Ducted	Single	Australia, Fiji, New Zealand	China	3 stars

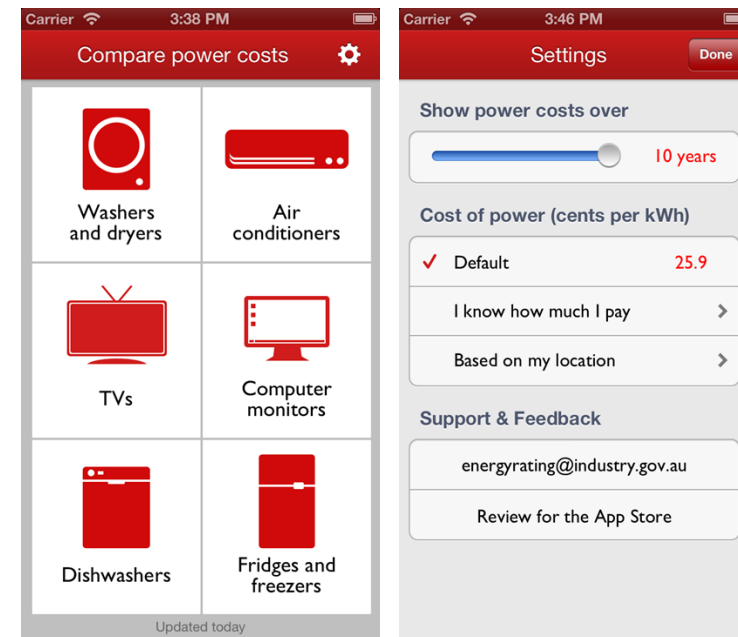
- All regulated products must be registered via the secure online E3 Comparison Tool before being offered for sale
- Around 18,000 approved registrations
- Information on energy efficiency, MEPS and product star ratings
- Supports the verification testing compliance programme
- Around 70,000 visitors a month



The Australian E3 Mobile App

10

- New Mobile App developed in Australia and New Zealand
- Enables shoppers to:
 - estimate running costs
 - compare models
 - Filter on product type and capacity
 - Add purchase prices
 - Compare models based on total cost
- Retailers can also use to show customers how choosing energy efficient appliances can make to overall costs over the life of the appliance.

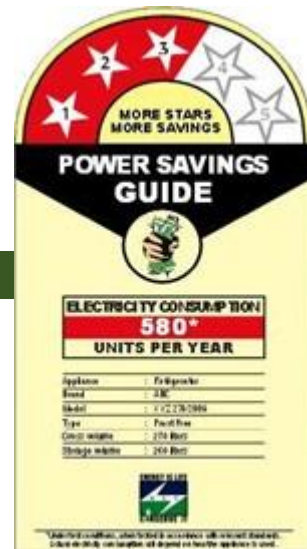


India's Star Label Database

www.beestarlabel.com

11

- Online public database of all labelled products
 - 19 different product categories
- Manufacturers must:
 - pay a fee to register their products
 - product data to put the energy label on their products
- Users can filter product attributes, including brand name, model number & star rating, and export the results to PDF
- Currently developing a new Consumer Mobile Application to:
 - Increase awareness of S&L and energy efficiency in India
 - Inform smart purchasing decisions (cost & energy comparison tool)
 - Enable consumers to report inaccurate labels in stores to support MVE activity



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India Star Label Online Database & Mobile App

12

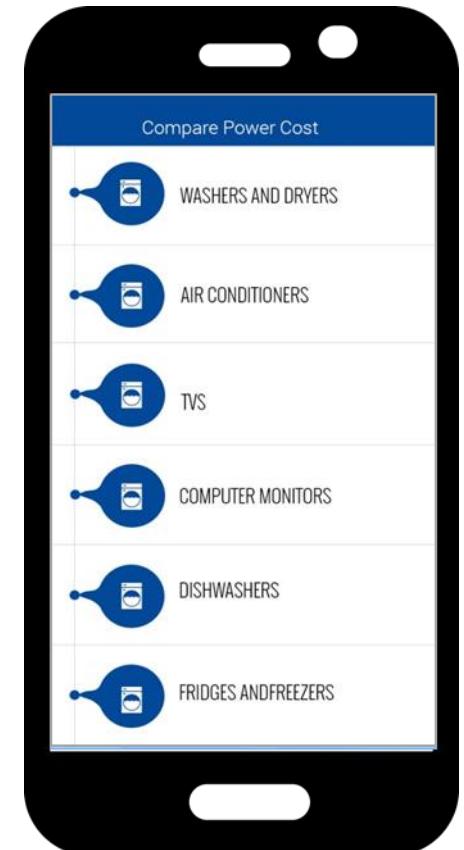


Bureau of Energy Efficiency
Ministry of Power, Government of India

Search and Compare for FROST FREE REFRIGERATOR

Brand[24]	Model[314]	Gross Volume (litres)	Storage volume (litres)	Electricity Consumption (unit per year)	Star Rating
Select All	Select All	Select All	Select All	Select All	Select All
BOSCH	GFE 32 CMT-	179	158	198	1
BPL	GFE 32 CVT4	190	174	238	2
CROMA	GFE 30 CMT-	200	189	242	3
ELECTROLUX	GFE 30 CVT4	220	195	244	4
FISHER & PAYKEL	GFE 29 LVT4	230	211	247	5

SEARCH << BACK



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United States' Energy Star Database

data.energystar.gov



13

- Online portal where stakeholders access datasets on certified products
- Detailed certified product information on over 45,000 models
- Updated daily, and allows users to filter information and view in different file formats
- Informs consumer purchases, energy efficiency promotions and specification updates

ABOUT ENERGY STAR PRODUCT FINDER HOME Sign Up Sign In Help

Alphabetical

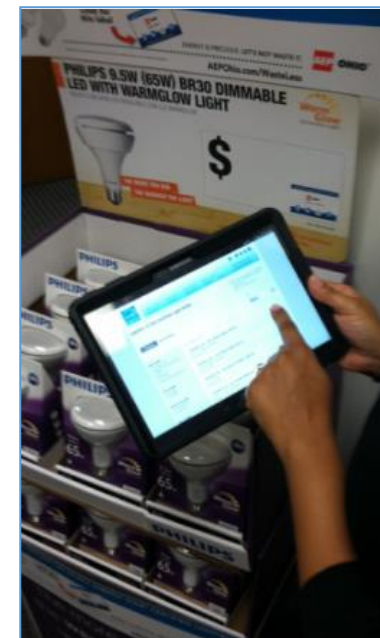
Search

Clear All Options

View Types

- (All)
- Datasets
- Charts
- Maps
- Calendars
- Filtered Views
- External Datasets
- Files and Documents
- Forms
- APIs

	Name	Popularity	Type
1.	ENERGY STAR Certified Audio Video Government Certified models meet all ENERGY STAR requirements as listed in the Version 3.0 ENERG	707 views	
2.	ENERGY STAR Certified Boilers Government Certified models meet all ENERGY STAR requirements as listed in the Version 2.1 ENERG	3,345 views	
3.	ENERGY STAR Certified Ceiling Fans Government Certified models meet all ENERGY STAR requirements as listed in the Version 3.0 ENERG	1,327 views	
4.	ENERGY STAR Certified Commercial Clothes Washers Government Certified models meet all ENERGY STAR requirements as listed in the Version 6.1 ENERG	440 views	
5.	ENERGY STAR Certified Commercial Dishwashers Government Certified models meet all ENERGY STAR requirements as listed in the Version 2.0 ENERG	742 views	
6.	ENERGY STAR Certified Commercial Fryers Government Certified models meet all ENERGY STAR requirements as listed in the Version 2.0 ENERG	629 views	
7.	ENERGY STAR Certified Commercial Griddles Government Certified models meet all ENERGY STAR requirements as listed in the Version 1.1 ENERG	337 views	
8.	ENERGY STAR Certified Commercial Hot Food Holding Cabinet Government Certified models meet all ENERGY STAR requirements as listed in the Version 2.0 ENERG	407 views	



European Union Approach



Improving Ecodesign Market Surveillance across the EU

14

- No product certification or registration database currently implemented in the European Union
- EU MVE authorities have adopted a different approach and are collaborating on:
 - Exchange of experiences and best practices
 - Coordinating testing of products (and sharing test results)
 - Exchanging notifications of non-compliant products
- The European Ecodesign Compliance Project is designing a new common EU-wide confidential registry to facilitate sharing of this information between MVE authorities
 - Identifying common product model numbers
 - Sharing testing plans, results, and relevant follow up actions

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List of Existing Product Databases

15

- Australia and New Zealand [Energy Rating product lists](#)
- California [Appliance Efficiency Database](#)
- Canada [searchable product lists](#)
- China [certification database](#)
- Chinese Taipei [certified products database](#)
- Hong Kong [labeled products database](#)
- India [Star Label product database](#)
- Japan [product database](#)
- Philippines [labeled and certified product lists](#)
- Singapore [Database of Registered Goods](#)
- Sweden [Lampguiden mobile app for lighting](#)
- U.S. DOE [Compliance Certification Database](#)
- U.S. EPA [ENERGY STAR Qualified Product Finder](#)

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MVE Project – Product Registry Activities

16

- CLASP developing tools to support ASEAN and Pacific Islands:
 - Designing and Operating a Lighting Product Registry
 - Webinar in April 2015
 - Guide Book in May 2015
 - Prototype Lighting Product Registry Tool
- Benefits to target countries include:
 - Targeted resource to support successful implementation of national & regional S&L lighting programmes
 - Flexible and adaptable low-cost tool to adopt or build on
 - Can be implemented or applied at a national or regional level, to support cross-border resource efficient MVE
 - Allows for benchmarking or sharing data with other common registries

Key Issues for Consideration by Economies

17

- Needs for a product registration database will vary by economy
- Main information needed to share results of product testing and non-compliant products between economies
- Key features for inclusion in the tool (legislation, contacts, etc)
- Key parameters for inclusion in the tool - needs and measurements may differ by economy
 - Common parameters to be included, but are there parameters specific to individual economies?
 - Input on relevant data sources to populate the registry
- How to enable registry system harmonisation or compatibility between agencies and economies?

CLASP seeking input from economy representatives!

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Thank you!

18

For more information, questions or comments please contact:

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- For more information on the SEAD Initiative, visit:
www.superefficient.org