

Introducing the new requirements and enforcement timeline of SASO 2892:2025 Refrigerators, Refrigerator- Freezers and Freezers

المواصفات السعودية
Saudi Standards



كفاءة η

المركز السعودي لكفاءة الطاقة
Saudi Energy Efficiency Center

Disclaimer

➤ This following section is an overview of:

- **SASO 2892 Standard** “Refrigerators, Refrigerator- Freezers and Freezers, Energy Performance, Testing and Labeling Requirements”

This document and all presented information shall not be considered as the official reference, where the official **standard can be found in Saudi Standards, Metrology and Quality Organization (SASO) portal** ([Link](#)).

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SASO 2892:2025 standard requirements

Labs Registration process

Energy Efficiency Certification

Procedures for Registering Conformity Certificates & Issuing Shipment Certificates in Saber Platform

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Introduction

This standard is updated to:

- Expand the scope to cover capacity from 10 liter to 1500 liter.
- Additional definitions.
- Update the reference standards.
- New Testing requirements (ambient temperatures of 16 °C and 32 °C)
- New Minimum Energy Performance Standard (MEPS) based on the updated Energy Efficiency Index (EEI) equation.

All requirements outlined in SASO 2892:2025 shall supersede previous SASO2892:2018 standard

Scope Coverage & Exclusions

Scope Coverage

Refrigerators, refrigerator-freezers and freezers with a **total capacity range from 10 – 1500 liter**

Exclusions

- **Refrigerators employing an absorption** refrigeration system and low noise refrigerating appliance
- Refrigerating appliances that are primarily powered by **energy sources other than electricity**, such as liquefied petroleum gas (LPG), kerosene and bio-diesel fuels
- **Professional refrigerated storage cabinets and blast cabinets**, with the exception of professional chest freezers.
- Refrigerating appliances **with a direct sales function**.
- **Mobile refrigerating appliances and battery-operated** refrigerating appliances that can be connected to the mains through an AC/DC converter, purchased separately.
- **Appliances where the primary function is not the storage of foodstuffs** through refrigeration, such as stand-alone icemakers or chilled drinks dispensers

Reference Standards & Additional definitions

Reference Standards

- **IEC 62552-1:2015/AMD1:2020** “Household refrigerating appliances - Characteristics and test methods - 1: General requirements”
 - **IEC 62552-2:2015/AMD1:2020** “Household refrigerating appliances - Characteristics and test methods - 2: Performance requirements”
 - **IEC 62552-3:2015/AMD1:2020** “Household refrigerating appliances - Characteristics and test methods - 3: Energy consumption and volume”
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Additional Definitions

- **Low noise refrigerating appliance:** A refrigerating appliance without vapour compression and with an airborne acoustical noise emission lower than 27 A-weighted decibel referred to 1 pico watt (dB(A) re 1 pW)
- **Door heat loss factor (D):** A compensation factor for combi appliances according to the number of different temperature compartments or the number of external doors, whichever is lower. For this factor, 'compartment' does not refer to sub-compartment
- **Auxiliary energy (Eaux):** The energy used by an ambient controlled anti-condensation heater

Testing requirements & EEI Calculation

Testing requirements

- **Product shall be tested** at an ambient temperatures of 16 °C and 32 °C

$$EEI = 100 \times \frac{AEC}{SAE}$$

$$AEC = 365 \times (E_{\text{daily}}/L)$$

$$E_{\text{daily}} = (E_{16} + E_{32})/2$$

Where:

- **AEC**: annual energy consumption
- E_{daily} : Calculated based on testing at an ambient temperatures of 16 °C and 32 °C.
- **L** : The load factor (L = 0.9) for refrigerating appliances with only frozen compartments and (L = 1.0) for all other appliances.

EEI Calculation

$$SAE = C \times D \times \sum_{c=1}^n A_c \times B_c \times \left[\frac{V_c}{V} \right] \times (N_c + V \times r_c \times M_c)$$

Where:

- **SAE** : Stanadard annual energy consumption
- **c** : the index number for a compartment type ranging from 1 to n, with n the total number of compartment types.
- V_c : Compartment volume in liters
- **V** : Total Volume in liters
- r_c, N_c, M_c and **C** : modelling parameters specific to each compartment.
- A_c, B_c and **D** : the compensation factors.

Minimum Energy Performance Standard (MEPS) and labels

MEPS

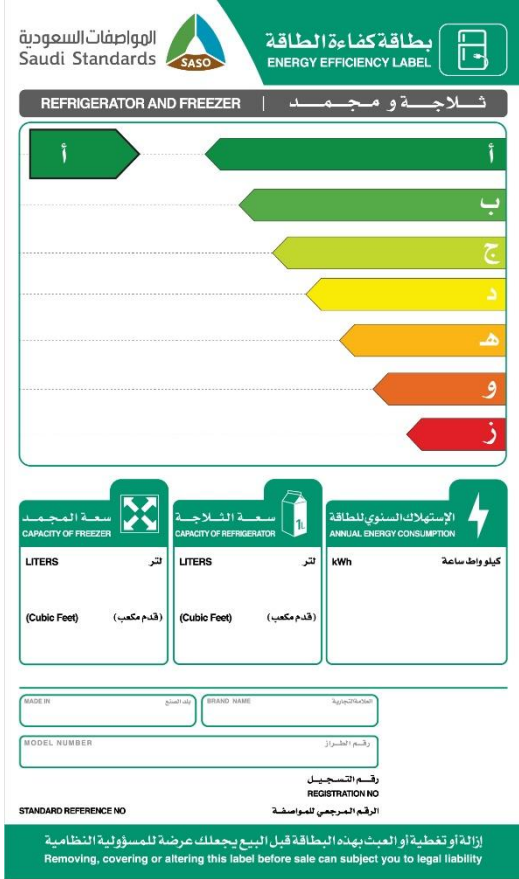
Total Volume	≤ 500 liter	> 500 liter
EEI	≤ 110	≤ 125

Label

(EEI) Classification			
Bar color	Energy efficiency class (Arabic)	Energy efficiency class (English)	EEI
Dark green	أ	A	EEI ≤ 50
Green	ب	B	50 < EEI ≤ 65
Light green	ج	C	65 < EEI ≤ 80
Yellow	د	D	80 < EEI ≤ 95
Orange	هـ	E	95 < EEI ≤ 110
Red	و	F	110 < EEI ≤ 125
Dark red	ز	G	EEI > 125

Total Volume ≤ 500 L

Total Volume > 500 L



The label template includes the following sections:

- Header:** Saudi Standards (الهواصفات السعودية) and Energy Efficiency Label (بطاقة كفاءة الطاقة).
- Product Type:** REFRIGERATOR AND FREEZER (ثلاجة ومجمد).
- Energy Efficiency Scale:** A horizontal bar chart showing efficiency classes from A (Dark Green) to Z (Dark Red).
- Capacity of Freezer:** سعة المجمد (LITERS / لتر) and (Cubic Feet / قدم مكعب).
- Capacity of Refrigerator:** سعة الثلاجة (LITERS / لتر) and (Cubic Feet / قدم مكعب).
- Annual Energy Consumption:** الاستهلاك السنوي للطاقة (kWh / كيلو واط ساعة).
- Registration Information:** MADE IN, BRAND NAME, MODEL NUMBER, and REGISTRATION NO.
- Standard Reference No:** رقم المراجع للمواصفة.
- Disclaimer:** إزالة أو تغطية أو العبث بهذه البطاقة قبل البيع يجعلك عرضة للمسؤولية النظامية (Removing, covering or altering this label before sale can subject you to legal liability).

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Laboratories Registration

Main Registration Requirements

The main registration requirements:

- Filling SASO body registration form of energy efficiency laboratory activity and attach all required documents in the acceptance gate.
- Proof of accreditation for the energy efficiency laboratory activity from the Saudi accreditation center (SAAC) **for national LABs**, and any accreditation center that has membership in ILAC international organization **for the external LABs**.
- Provide a commercial registration of the laboratory which mentions the business activity **(Testing)** .
- Provide a professional insurance policy which covers all lab activities **excluding national LABs** .
- Proof of technical competence by providing laboratory personnel qualifications.
- Paying the cost of the request, which is **10,000** Saudi Riyals for each Standard **(for the external LABs)** and **5,000** Saudi Riyals for each sector **(for the national LABs)**.

Registration process

Studying The Request

SASO's technician studies the request to ensure that all requirements are met.

Issuing Registration Documents

SASO will issue the registration certification of laboratory and the laboratory will download the certificate through SASO acceptance gate.



Applying for The Service Through SASO Acceptance Gate

The laboratory applies for the service by applying new request Through [SASO Acceptance Gate](#).

Cost Payment

The laboratory pays the costs of the request.

بوابة القبول
الخواصات السعودية
SASO Notification Gate



FOR ANY INQUIRY YOU CAN CONTACT US THROUGH NOTIFICATION DEPARTMENT EMAIL

q.cab_reg@saso.gov.sa

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Energy Efficiency Certification

Energy Efficiency Certificate & Label Certification requirements

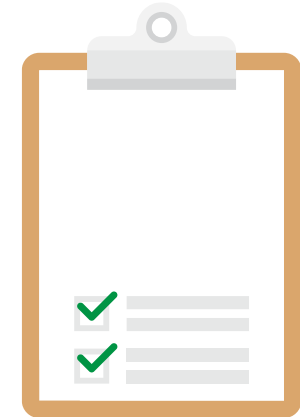
The Technical File



- ▶ Test Report issued by SASO accepted laboratory (3 years Validity from issue date)
- ▶ Instruction sheet
- ▶ Marking information on name plate
- ▶ Model image
- ▶ Filling the electronic application form

Other

- ▶ Declaration of Conformity from manufacture
- ▶ Declaration of Conformity from importer



Energy Efficiency Certification

upgrade option from SASO 2892:2018 to SASO 2892:2025



What is the upgrade option?

The Upgrade Option allows applicants to update existing model certificates and labels from SASO 2892:2018 to SASO 2892:2025, subject to compliance with the updated standard requirements.

Service availability

Service will be launched with the new SASO 2892:2025 certification service.

Upgrade requirement

A test report issued in accordance with SASO 2892:2025 shall be submitted. The model must comply with all applicable requirements of the updated standard.

Before you submit

Applicants are advised to review SASO 2892:2025 and prepare the required test report and supporting technical file.

Models that do not comply with SASO 2892:2025 cannot be upgraded or certified under the new standard.

Energy Efficiency Certification

Label replacement

label replacement service will be accessible through the website to all stores operating in the Kingdom of Saudi Arabia.

Mandatory action

All existing labels issued under SASO 2892:2018 shall be replaced with the new label prior to enforcement in the local market and warehouses.

Applies to

- All products certified under SASO 2892:2018
- Models whether or not upgraded to SASO 2892:2025
- Models whether or not they satisfy the Minimum Energy Performance Standards (MEPS) requirements under SASO 2892:2025

Important clarification

The label replacement service is separate from the upgrade service and does not constitute certification under SASO 2892:2025. certification under the updated standard requires completion of the applicable upgrade option or new certification requirements.

Energy Efficiency Certification

Certification and Label replacement

1

New Models

NEW APPLICATION

New models (never issued an energy efficiency label) shall be submitted directly under SASO 2892:2025.

2

Existing Models

UPGRADE OPTION

Models covered under SASO 2892:2018 may apply for the Upgrade Option, subject to compliance with the updated standard requirements.

3

Label Replacement

SEPARATE SERVICE

Label replacement remains available for labels in the local market and warehouses. issued under SASO 2892:2018 and is separate from certification under SASO 2892:2025.

Key point Label replacement does not constitute an upgrade or certification under SASO 2892:2025.

Energy Efficiency Certification

Certification Process

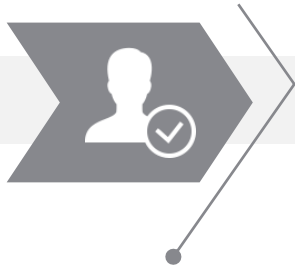
Fee Payment

The applicant pays the fee of the request

Issuance of energy efficiency certificate and label

Certificate validity 1 year

1



Application submission through Single Sign On ([SSO](#))

2

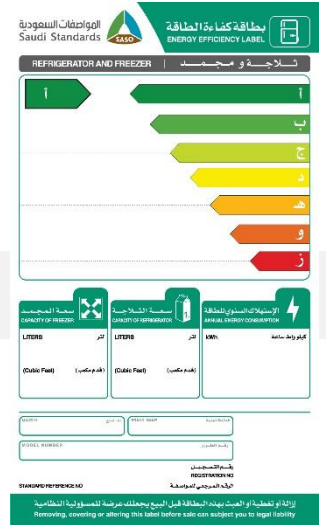


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Application Review

4



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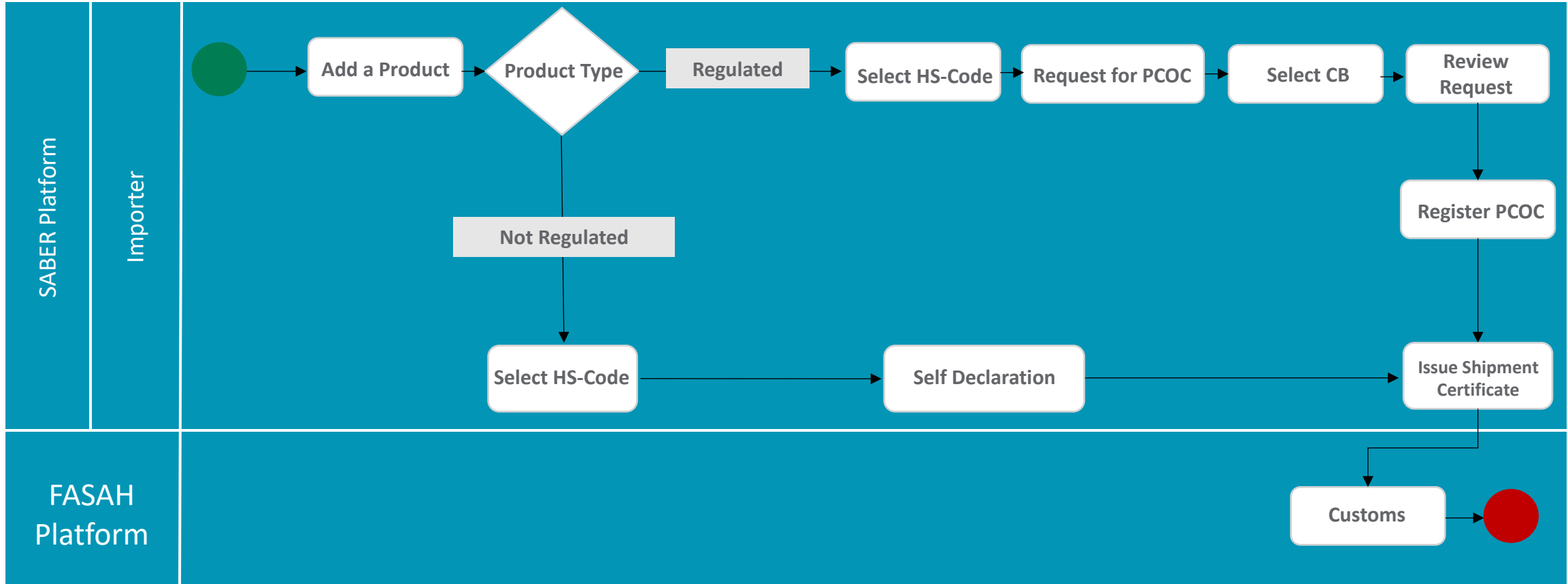
Saber Platform Services

Saber Platform Services for Commercial goods



Saber Platform Procedures

Saber Platform Procedures for Commercial goods



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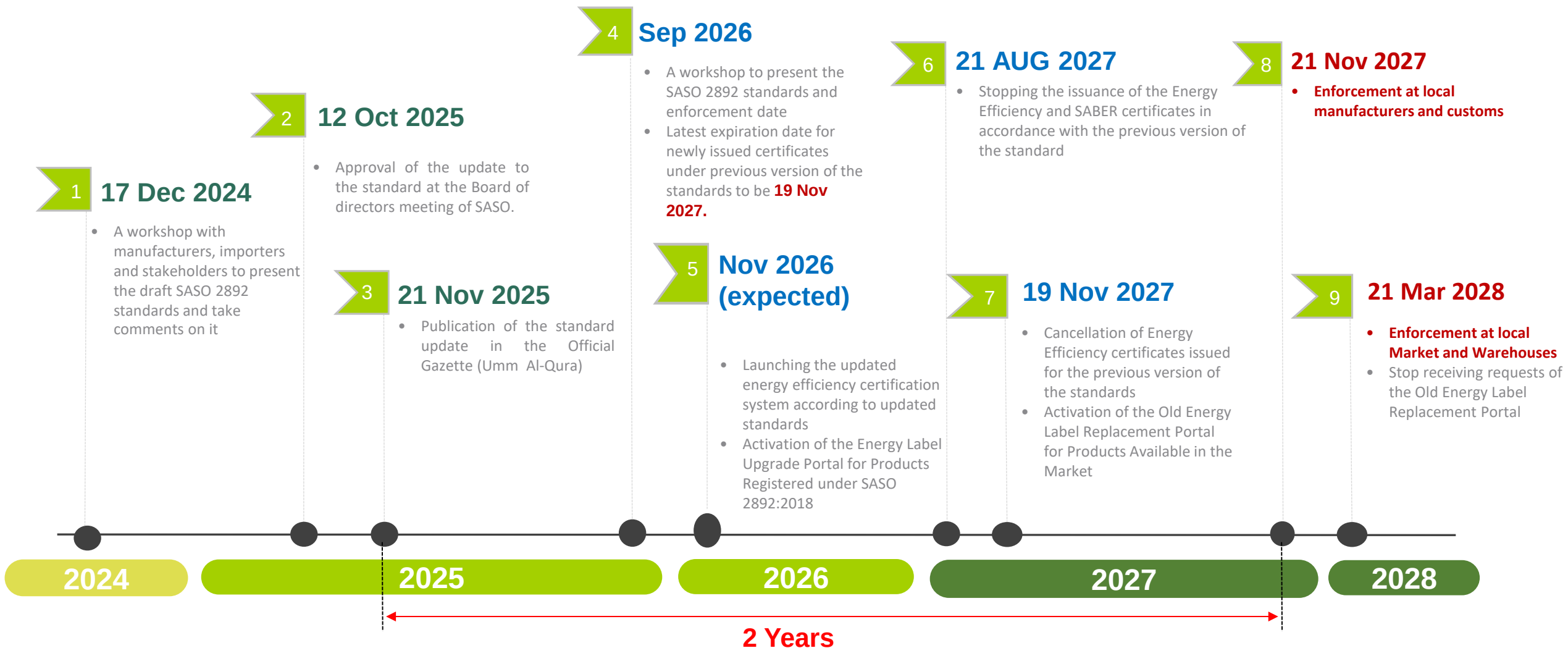
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Enforcement Plan for Updated Refrigerators, Refrigerator- Freezers and Freezers



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Key Questions



1. What should **applicants who is registering new model** consider during this time until Nov 2026 (Start of updated EE certification)?
2. If I already have a valid EE test report for an existing model issued under SASO 2892:2018, do I need to re-test the product?
3. When does the enforcement starts?
4. Are all energy efficiency certificates issued for **previous version** of the standards going to be cancelled by 19 Nov 2027, regardless of the remaining validity ?
5. Are there any fees for **updating requests** to update the valid laboratory registration standard version from SASO 2892:2018 to SASO 2892:2025?

Answers



1. They should test their products according to the new standard and prepare all EE certification requirements in advance.
2. Yes. Since the product will need to comply with the updated requirements of the SASO 2892:2025
3. The enforcement begins on 21 Nov 2027 at local manufacturers and customs only and on 21 Mar 2028 at local Market and Warehouses
4. Yes. All energy efficiency certificates issued under the previous version of the standard will be cancelled by 19 November 2027
5. There are no fees for the updating requests.

Key Questions



6. What about products already in the market before the enforcement date? Will there be a grace period to sell existing products?
7. How will shipments that shipped before the enforcement 21 Nov 2027, but arriving afterward, be treated?
8. How will market surveillance and enforcement take place?
9. When will the energy efficiency certification system be launched?
10. How long the Energy Efficiency and SABER certificates remain valid?
11. Is there a document that covers all Energy Efficiency certification requirements?

Answers



6. As for products already in Saudi Market, Products will remain valid according to the licenses and certificates previously provided. In addition, label shall be replaced through the platform starting from 19 Nov 2027.
7. All certificates (i.e. SABER and EE) will be cancelled on 19 Nov 2027, and it is responsibility on manufacturers and importers to ensure shipment arrive before 19 Nov 2027.
8. Inspections will be carried out at customs and within local manufacturers to ensure compliance
9. Expected on Nov 2026 will be the Launching of the updated refrigerators energy efficiency certification system according to updated standards.
10. a) If it issued on previous version of the standards, it will be valid until 19 Nov 2027.
b) If it issued for the new version of the standards, it will be considered valid until the expiration date.
11. Yes, a certification scheme that provides all information applicants need for certification, and it will be published soon on SASO website.

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Thank You.

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