

Rescaling Energy Labels in Europe

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Domestic Refrigerators

- Challenges
 - Evolving technology
 - Increasing complexity
- Opportunities
 - Large range of efficiencies
 - Energy consumption important in purchase decision
 - Better food preservation





Case Study: European Union – a long story





European Union - 2019 revision





- Significant rescale Moving back to A-G scale with top classes empty
- By 2021 cutting **10%** and again in 2024

Timing of Rescaling

- New label applies from 1 April 2021
 - All new products placed on the market after this date must have the new label
- Transition period two weeks*
 - Old label and new label will co-exist
- Full implementation
 - All old labels must be covered by a sticker
 - Only new labels permitted on new and existing stock of products

"the dealer shall replace the existing labels on products on display, both in shops and online, with the
rescaled labels within 14 working days after the date specified in the relevant delegated act for starting the
display of the rescaled label. The dealer shall not display the rescaled labels before that date."
European Union, Energy Labelling Directive, 2017.





Lighting Label is rescaling

1998 - 20132021 – c. 2030 2013 - 2021**Original Label Future Label Current Label** ENERG⁴ Energ ie SUPPLIER'S NAME MODEL IDENTIFIER-<u> εμερία · ενεόλεια</u> A Α B В В Δ+ C D E F G D G XY00 Lumen XYZ Watt XXX kWh/1000h XY00 h kWh/1000h Regulation number-

Significant rescaling of the Energy Label



2021 – c. 2030, Future Label

- Current A++ has EEI of 0.11 equates to 113 lm/W at 800 lm; new label • class E is 110 to 135 lm/W
- Current A+ has EEI of 0.17 equates to 73 lm/W at 800 lm; new label class G is less than 85 lm/W

Significant rescaling of the Energy Label

- 1 Sept 2021 874/2012 Repealed & New Label on Boxes Regulation (EU) No 874/2012 is repealed and New Label required
- 1 June 2022 Stickers to Replace Old Labels

Products with the old label that are still on the market 9 months (Note: LightingEurope says the final version is 18 months) after application of the regulation must be replaced with a rescaled label (sticker)

 Entry + 5 Years (Nov 2024?) – Review the regulation Article 8 - Review shall assess energy-efficiency classes and the possibility of circular economy requirements. Issue a revised proposal (if appropriate) to the Consultation Forum.

Refrigerants

Refrigerants used in Refrigerators & ACs

- HCFCs are ozone-depleting substances controlled under Montreal Protocol
- HFC replaced HCFCs but now many countries phasing out under Kigali Amendment to Montreal Protocol
- South Africa ratified the Amendment in August 2019
- HFC phase-out needs cooling appliances to move to low global warming refrigerant options



Common refrigerants



Refrigerants in ACs – South Africa

- ACs R-22 (HCFC), R410A (high GWP HFC), R-32 (lower GWP)
- Refrigerators R 134 (high GWP HFC), R-600a (natural refrigerant)

Considerations

- Consider incorporating requirements on the refrigerants and foam blowing agents used in cooling appliances
 - Environmental impact Limit the direct emissions from cooling appliances
 - Contribute towards meeting Kigali Amendment targets
- ACs
 - Facilitate the transition to lower GWP refrigerants e.g. R-32 and natural refrigerants from R-410A
 - Eliminate R-22 units from the market
- Refrigerators Products using R600a refrigerant already widely available *e.g.*, standard refrigerant in EU markets
 - Consider training local stakeholders for the design, manufacture, servicing and disposal of appliances containing R600a

Thank you. Any questions?

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