

Henrik Sundström VP, Sustainability Affairs AB Electrolux



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Electrolux key facts

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Position

- Sales € 11 billion / AUD 18 billion
- Sales 150 markets
- A global leader in appliances

18%



25%

23%



Market shares of core appliances

Peop

• 57,000 in 60 countries



Products • More than 40 million products per year



Our business





Food preparation



Food preservation



Dish care



Fabric care



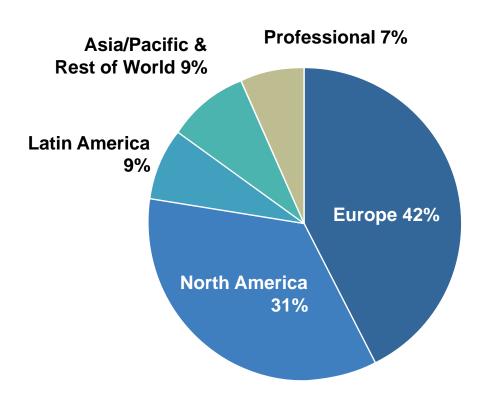
Professional

- Food service equipment
- Laundry equipment



Floor-care

Sales in 2007: €11 billion / AUD 18 billion



Long history of improving energy efficiency

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- The Nutek procurement Cold appliances
 Sweden 1990-1992
- IEA DSM Award
 Tumble dryers
 The Netherlands 1998
- The Integration cooker Sweden 2000-2001
- Energy plus program
 Cold appliances
 Europe 1999-2004







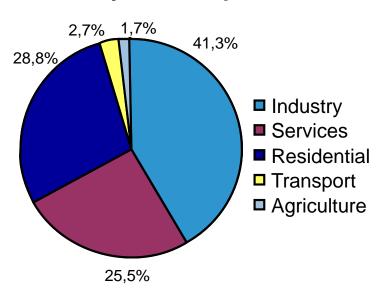


Energy use in households

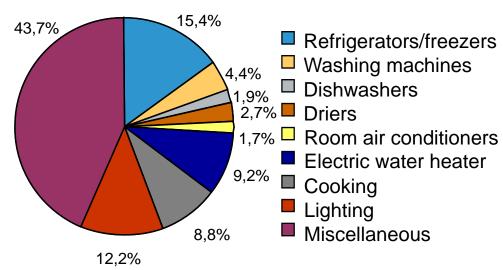
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Electricity consumption EU-25



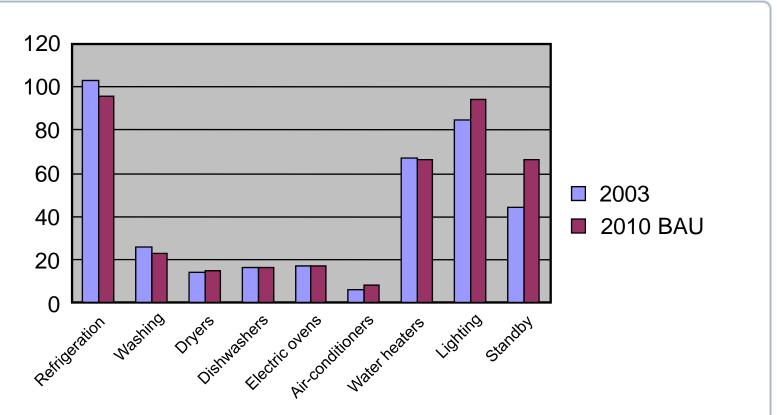
Residential electricity consumption EU-25



Electricity consumption 2003 (EU-15)

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- The total consumption of electricity for household appliances in 2003 was 176 TWh, a reduction by 23,5 TWh (12%) from 1995.
- A reduction of approx. 40 TWh with additional policies is possible.

Source: The European Commission' Green Paper on Energy Efficiency

EU energy policies



	94	95	96	97	98	99	00	01	02	03	04	05
Energy labels		Cold appliances									A+	
			Washing machines									
			Dishwashers									
			Tumble dryers									
									Ele	Electric ovens		
									Room aircon.			
Directive, energy efficiency			Refrigerators/freezers									
CECED unilateral industry commitments			Washing machines							21	nd	
						Dishwashers						
				Storage water heaters								
											Co	old

CECED Unilateral industrial commitments

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- Washing machines (1996 2002)
 - Target: 20% reduction (1994 2002)
 - Result: 27% reduction
 - 97% of manufacturers, 250 brands
- Washing machines II (2002 2008)
 - Target: production weighted average of 0.20 kWh/Kg for 2008
- Dishwasher (1999 2002)
 - Target: 20% reduction (1998 2002)
 - Result: 29% reduction in 2001
 - More than 90% of manufacturers, 200 brands
- Cold appliances (2002 2010)
 - Stop producing products with EEI¹ >75% by March 31, 2004
 - Reduce weighted average EEI to < 55% by 2006
 - Expected result: ~30% reduction

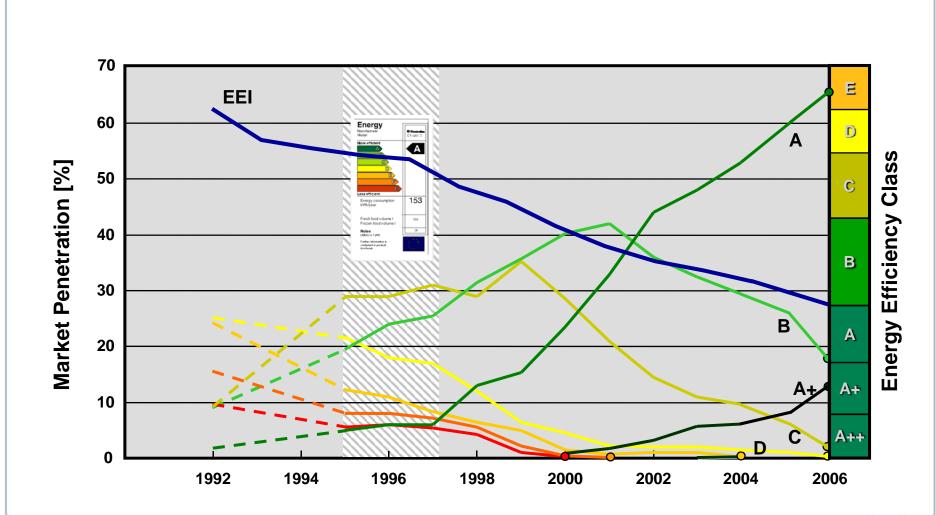
(1 EEI – Energy Efficiency Index)



EU: Cold appliances energy efficiency evolution

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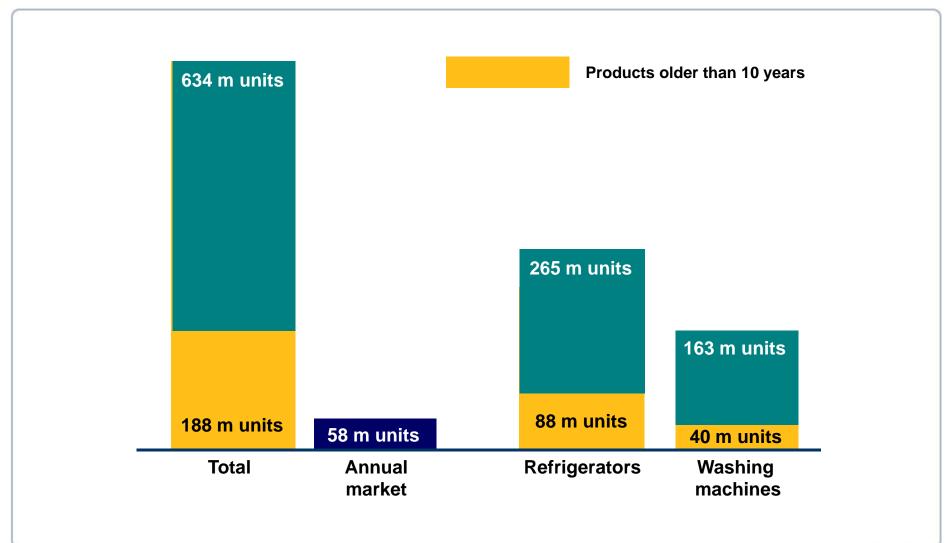
Market penetration of efficient appliances - "old" markets



- The market penetration of efficient products have increased significantly.
- In Europe, over 40% savings has been achieved, as a result of energy labeling and Unilateral Industry Commitments.
- The efficiency level of appliances can be improved further, but the large improvements in efficient technologies have already been taken.
- The largest environmental savings would be accomplished by replacing old, inefficient products with new, efficient ones.
- The focus of public policies should shift to incentives to replace the old stock of appliances.

The untapped potential outdated appliances





Energy labels – cold products

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Barriers against proliferation of energy efficient technologies



Household appliances are becoming global products.

Manufacturers have to develop specific products for each market to be in line with the local legislation:

- measurement standards
 - AUS/NZ, IEC, AHAM/DOE, Japan
- MEPS
- energy labeling criteria

The transformation of "new" markets



- Emerging markets can leapfrog to energy efficient appliances
- Trade barriers should be eliminated to facilitate shipments between markets
- Harmonized standards is the cornerstone for global deployment of energy efficient appliances
- Energy labels and energy efficiency limits set out in legislation, must be enforced
- The negative impact of obsolete second hand products should be avoided



Incentives for change

Local design of labeling schemes

Local settings of MEPS

Defined global efficiency levels

Harmonized measurement standards



59D/343/CDV

COMMITTEE DRAFT FOR VOTE (CDV) PROJET DE COMITÉ POUR VOTE (CDV)

		Project number Numéro de projet	IEC 60	0456 Ed. 5.0					
		IEC/TC or SC: SC CEI/CE ou SC:	59D	Secretariat / Secrétariat ITALY					
\boxtimes	Submitted for parallel voting in CENELEC Soumis au vote parallèle au CENELEC	Date of circulation Date de diffusion 2008-04-18		Closing date for voting (Voting mandatory for P-members) Date de clôture du vote (Vote obligatoire pour les membres (P)) 2008-09-19					
	of interest to the following committe esse également les comités suivant		Supersedes document Remplace le document 59D/342/MCR						
	tions concerned tions concernées Safety EN Sécurité CE		Environme						

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Titre

Title: IEC 60456 Ed. 5.0: Clothes washing machines for household use - Methods for measuring the performance

Note d'introduction

Introductory note

This CDV is circulated under the maintenance procedure of IEC 60456.
The text has been prepared by MT15 under the convenorship of Mr. Raveendran Vaidhyanathan, USA.

ATTENTION VOTE PARALLÈLE CEI - CENELEC

L'attention des Comités nationaux de la CEI, members du CENELEC, est attirée sur le fait que ce projet de comité pour vote (CDV) de Norme internationale est soumis au vote parallèe. Un bulletin de vote séparé pour le vote CENELEC

leur sera envoyé par le Secrétariat Central du CENFLEC

ATTENTION IEC - CENELEC PARALLEL VOTING

The attention of the IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) for an International Standard is submitted for parallel voting.

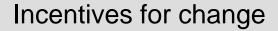
A separate form for CENELEC voting will be sent to them by the CENELEC Central Secretariat.

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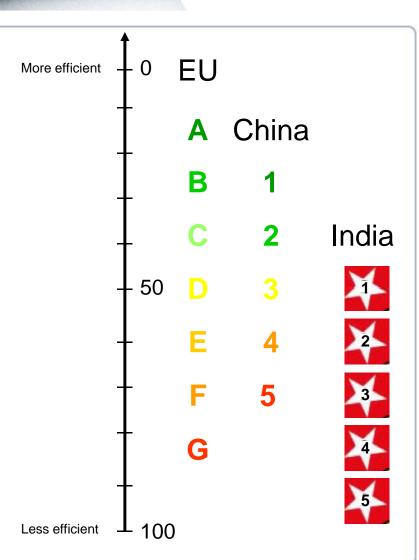


Local design of labeling schemes

Local settings of MEPS

Defined global efficiency levels

Harmonized measurement standards



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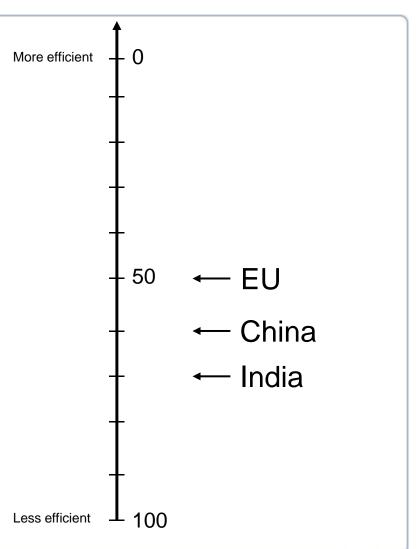
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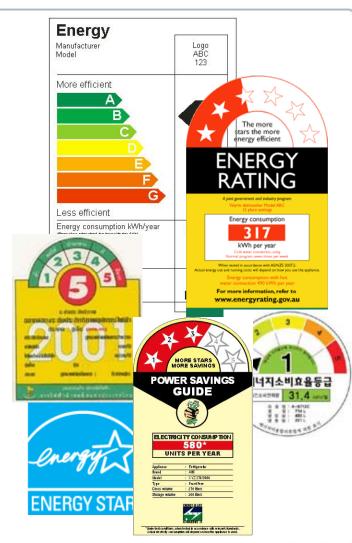
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Incentives for change

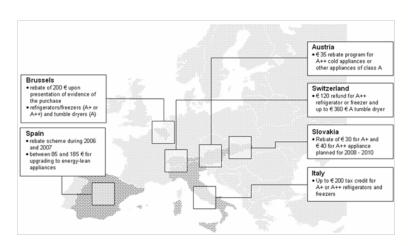
Local design of labeling schemes

Local settings of MEPS

Defined global efficiency levels

Harmonized measurement standards

Incentive schemes in Europe



...and number of countries in the pipeline to evaluate schemes, like Germany, Poland etc

Conclusion: Policy measures to speed up market transformation



- Encourage the development of energy efficient technologies, through R&D programs, technology procurement, etc.
 - to promote investments in new technologies
- 2. Adopt harmonized measuring standards (IEC)
 - applying the same standards globally
- 3. Implement energy labeling schemes
 - to provide POS information to consumers
- 4. Introduce MEPS, in parallel with labeling schemes
 - to eliminate the products with the worst performance

Conclusion: Policy measures to speed up market transformation



- 5. Implement incentives schemes for consumers
 - to promote the sales of efficient products
- 6. Market enforcement (compliance) activities must be in place
 - to create a leveled playing field, and eliminate unserious producers
- Respect the industry's investment cycles when implementing policies

IEC global product standards will soon be in place.

Policy makers should adopt it into national legislation.

For more information go to www.electrolux.com/sustainability





Electrolux Award Winner 2007