

Where to start:

Assessing current performance

Lighting, Appliances & Equipment: Session 3 Mark Ellis, IEA 4E Jakarta 17 July 2018



#energyefficientworld

Scenario





A respected industry association claims that the MEPS level for a certain product are so out of date that all the products on your market easily comply.

How could you find information to test the claim?



List some of the ways you might make an assessment of the performance of products on the market.



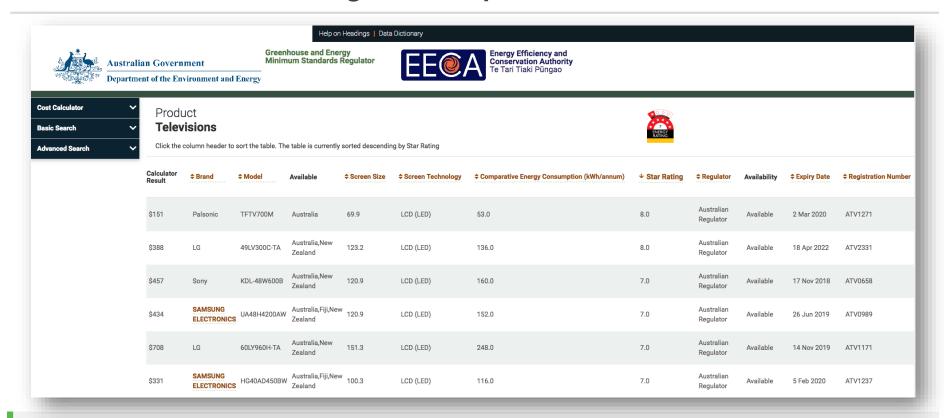




Registration system data?

What's on the market? Registration system data

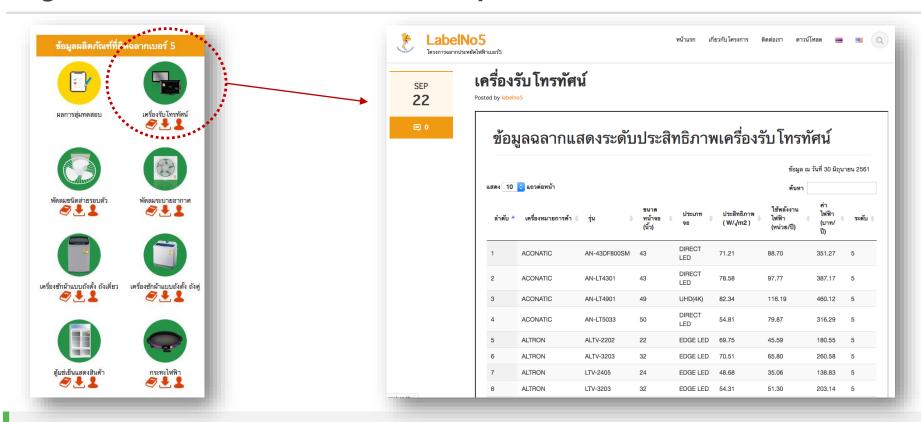




Registration data provides a complete snapshot of the market

Registration data is available in many markets





How similar is your market?



- Registration system data?
- Manufacturers? Trade Associations?
 - Blind data



- Registration system data?
- Manufacturers?
- Purchased sales data? Market research information

What's on the market? Market research data





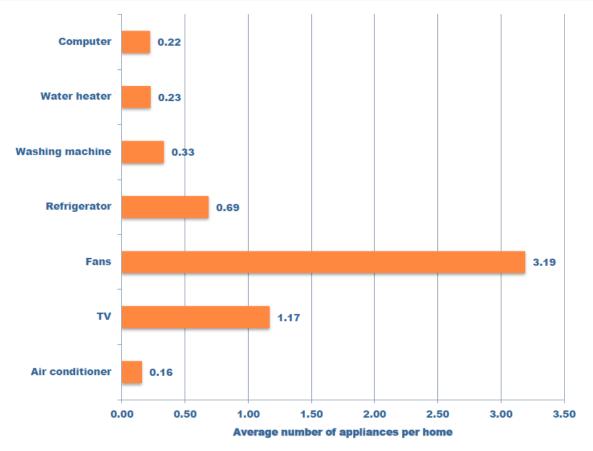
- Purchase reports and/or data directly from market research companies (e.g. GfK, Mintel)
 - have consumer panels (many thousands)
 - links with retailers (and access to sales data)
- Subscribe to omnibus surveys
- Commission bespoke research



- Registration system data?
- Manufacturers?
- Purchased sales data?
- Household surveys or Store surveys?

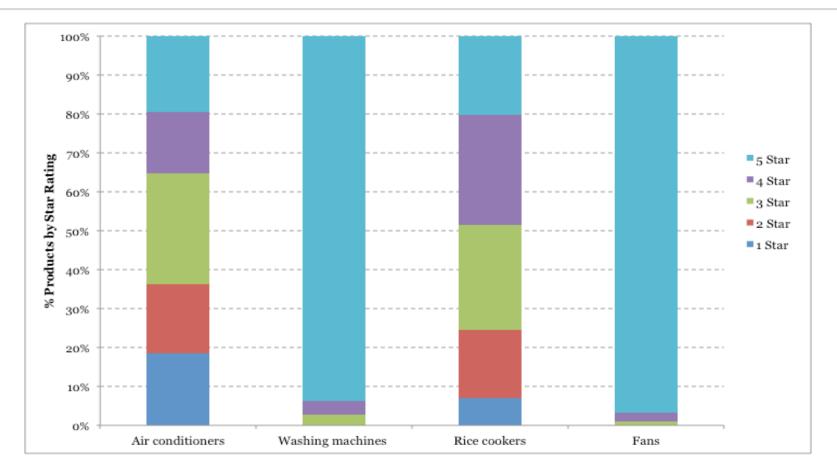
What's on the market? Household Surveys





What's on the market? Store survey Vietnam









- Registration system data?
- Manufacturers?
- Purchased sales data?
- Household or Store surveys?
- Data from catalogues and the internet?

What's on the market? Data from catalogues



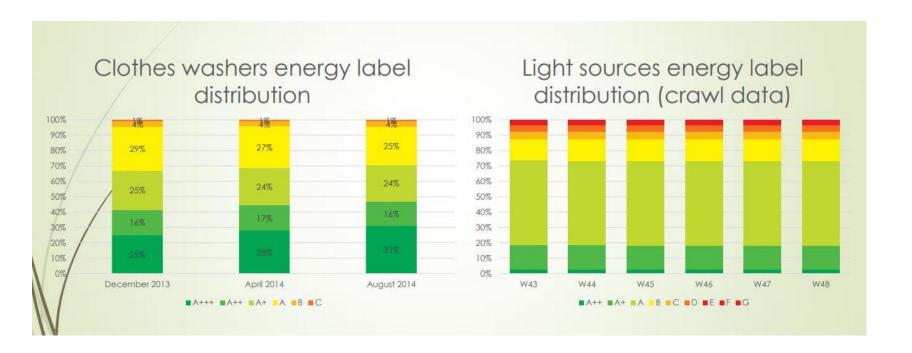


ECHNICAL DATA												
	Electrical data Nominal wattage	Photometrical data							Dimensions & weight		Temper atures & operatin g conditio ns	Lifespan
Product description		Color render- ing index Ra	Luminous flux at 25 °C	Luminous flux	at 35 °C	Light color (designation)	Luminous flux	Color render- ing index Ra	Tub e diamete r	Length with base excl. base pins/connection	Rated ambient temp.w. max.lum inous flux	Lifespan
NATURA T5 28 W/76 ¹⁾	28.00 W	≥85	1950 lm	2150 lm		NATURA	1950 lm	≥85	16 mm	1149.00 mm	35.0 °C	24000 h
	Additional product data		Certificates & standards									
Product description	Base (standard designation)	Show WEEE picto	Energy effi	ciency class	Energy consumption	Energy n efficiency class	,					
NATURA T5 28 W/76 ¹⁾	G5	Yes	A		31 kWh/100	10h A						

A lots of information on product technical specifications – available online

What's on the market? Internet Data – web crawling





Source: Big2Great

https://www.iea.org/media/workshops/2015/productsdec15-16/3.2 KasperMogensen WebcrawlingGatherDataOnlineMarketSurveillance.pdf





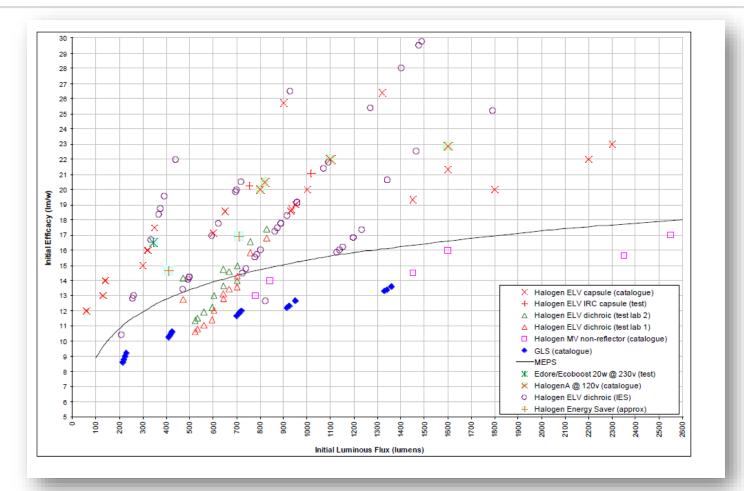
- Registration system data?
- Manufacturers?
- Purchased sales data?
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- Registration system data?
- Manufacturers?
- Purchased sales data?
- Household surveys?
- Data from catalogues and the internet?
- Test data?

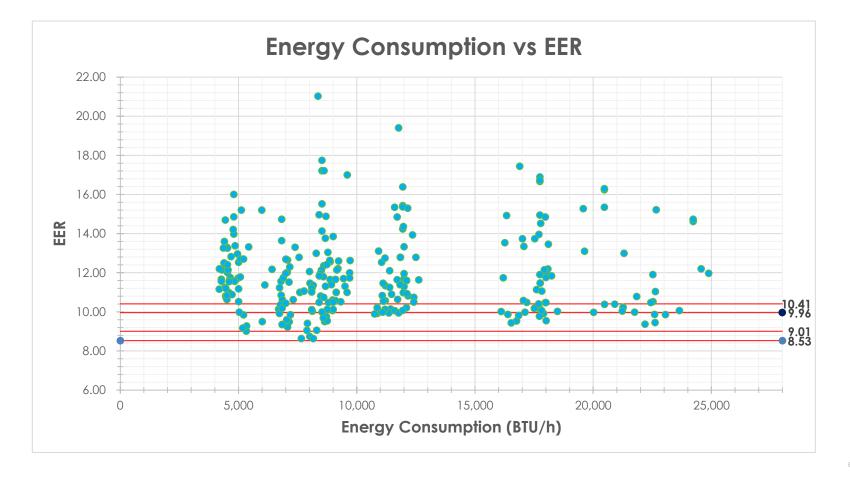
What's on the market? Test data (catalogue comparison)





Ideal Information – Air conditioner example





Scenario



A respected industry association claims that the MEPS level for a certain product are so out of date that all the products on your market comply.

If the information is correct, what would you do next?

Break out exercise.

What would you consider when you define new MEPS?

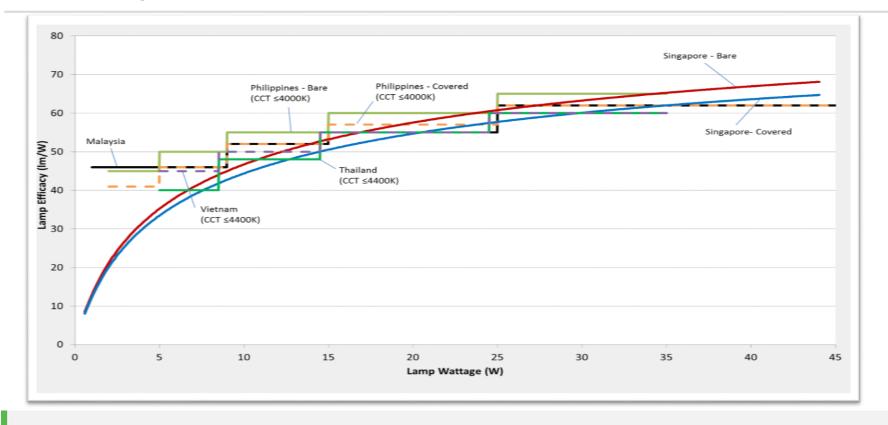
Defining new MEPS



- Consider specifications in similar markets
- Consider global or regional harmonisation
- Use a market analysis (eliminate worse 20%)
- Undertake an engineering analysis (least life cycle cost)

Consider specifications in similar markets

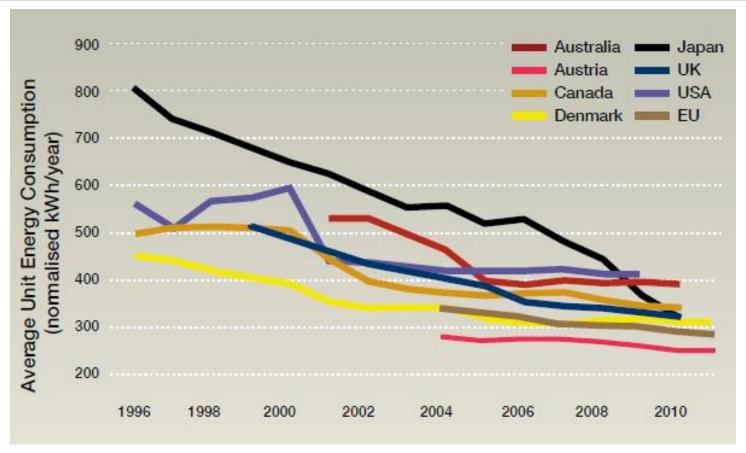




Minimum energy performance standards for low CCT compact fluorescent lamps in ASEAN

Defining new MEPS

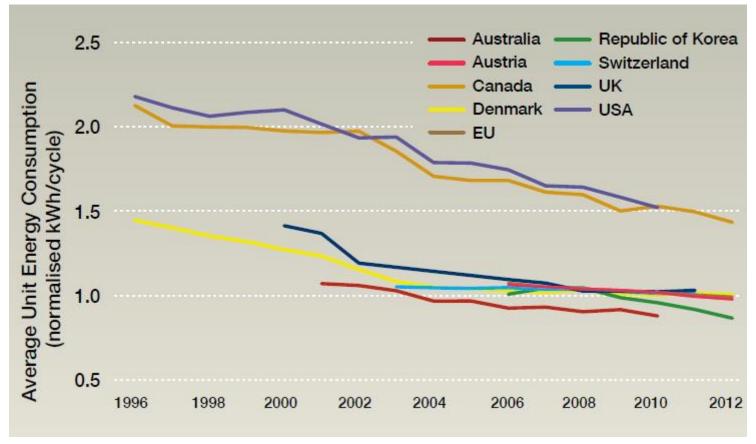




Source: http://mappingandbenchmarking.iea-4e.org/shared_files/509/download

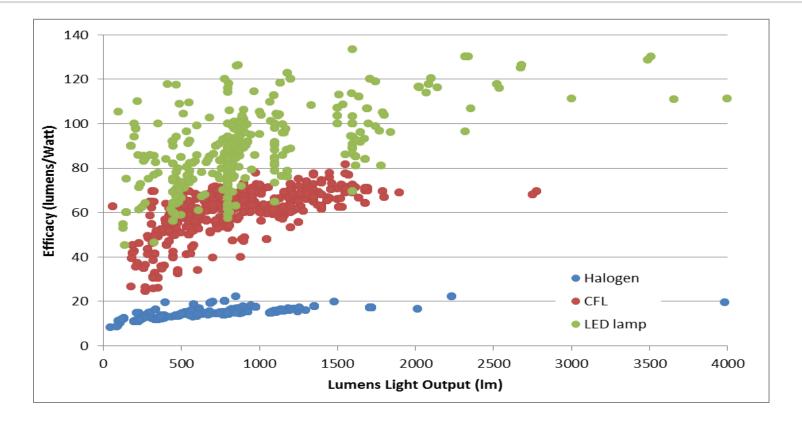
Defining new MEPS – comparing like with like





Market analysis

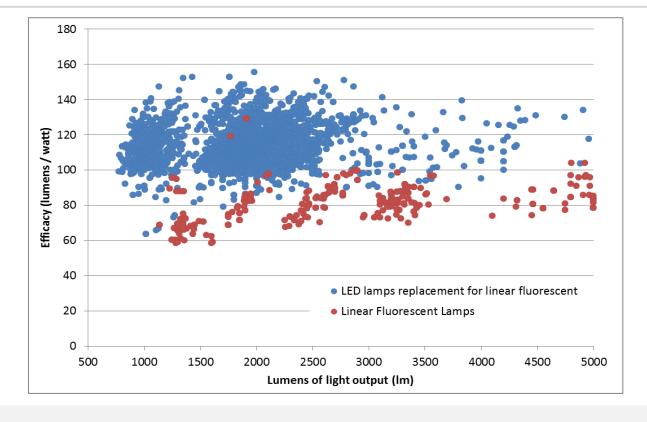




Technical assessments of technologies available on the market









www.iea.org



Ideal Information – Air conditioner example



