The Danish Curve Breaker Agreement

Voluntary agreement model to break the electricity consumption curve

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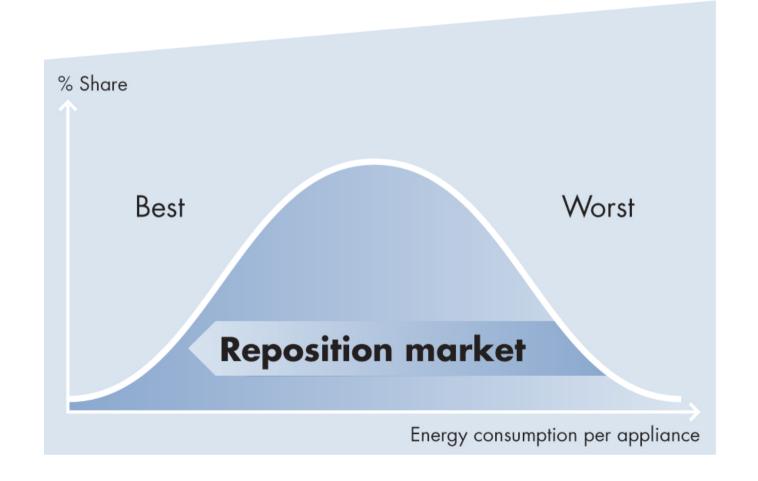


Danish Electricity Saving Trust

- Danish Electricity Saving Trust
 - Independent government institution with its own Board of Directors
 - Danish Ministry of Climate and Energy
 - Must promote electricity savings

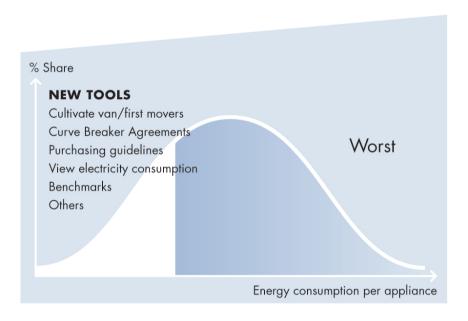


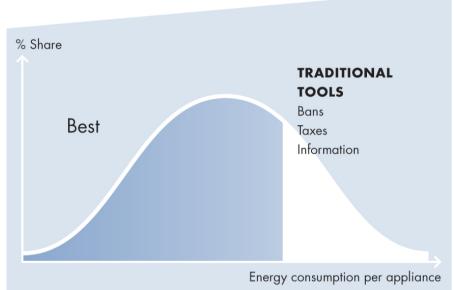
Market transformation





"New" and "traditional" tools







Tools

• Supplier side:

Producers and retailers

- Collaboration
- Approved lists
- Voluntary agreements
- Price pressure
- PR
- Marketing
- Monitoring and analysis

• Demand side:

Consumers

- Subsidies (kick-start)
- Marketing
- PR
- Websites
- Curve Breaker Agreements
- Customer advice

The Trust's Push-pull-strategi

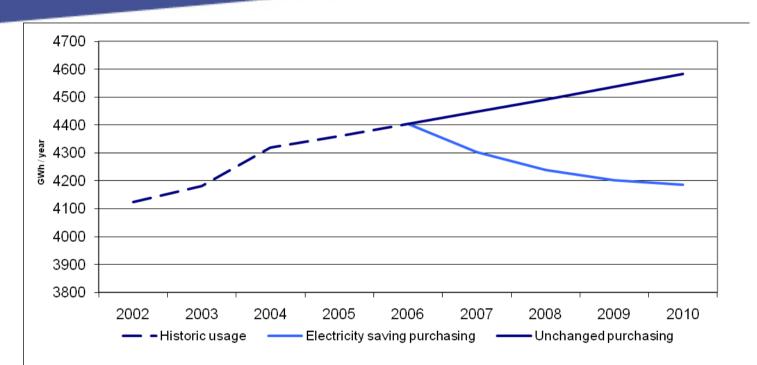


The public sector's electricity bill?

- Total of DKK 7 billion per year (ca 0.9 billion Euro)
- Potential savings: ca DKK 2 billion per year (ca 0.25 billion Euro)
 - Energy efficient purchasing 500 GWh/year
 - Operation/replacement/renovation of technical plant and equipment 750 GWh/year
- Good business: payback time ≤ 4 year.



Trend in public sector electricity consumption



Trend in public sector electricity consumption

Forecast electricity consumption in the public sector in relation to electricity saving and unchanged purchasing patterns.

Source: Dansk Energi & IT Energy

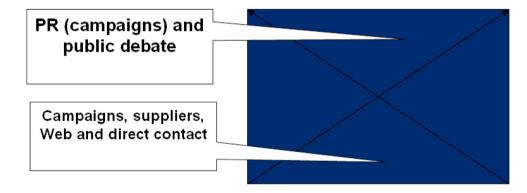


Public sector decision makers



Administrative leaders

Politicians





Purchasing staff



Operations/those responsible for energy/environment



"Break the electricity consumption curve"



Vision 2009

"Electricity consumption curve must be broken" (real reduction!)

Philosophy

Individual municipalities, regions, ministries and agencies <u>commit</u> to <u>reducing</u> the amount of electricity consumed

Good for the environment and finances, and an important signal to consumers (i.e. the public sector practices what it preaches)

The simple approach

If a large number of municipalities and institutions break the curve, total electricity consumption will fall!



Concept

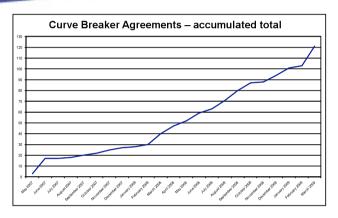
Binding agreement (Curve Breaker Agreement)

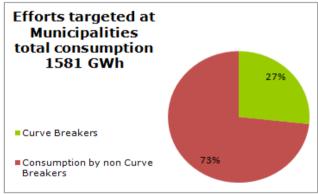
Concluded with the Trust

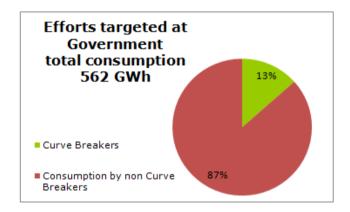
- Binding target to reduce electricity consumption within a given timeframe (e.g. 3 years)
- Making the consumption trend visible on 'www.savingtrust.dk/view-electricity-consumption' in order to follow and disclose that the target is being reached
- Openness on how the reduction is achieved including the offer that the Trust will organise
 PR and other publicity
- Freedom to choose offer of coaching, campaign materials, etc.

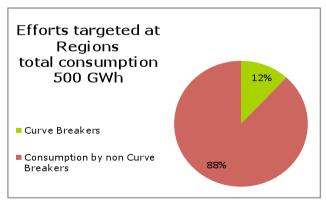


Status of current Curve Breaker Agreements











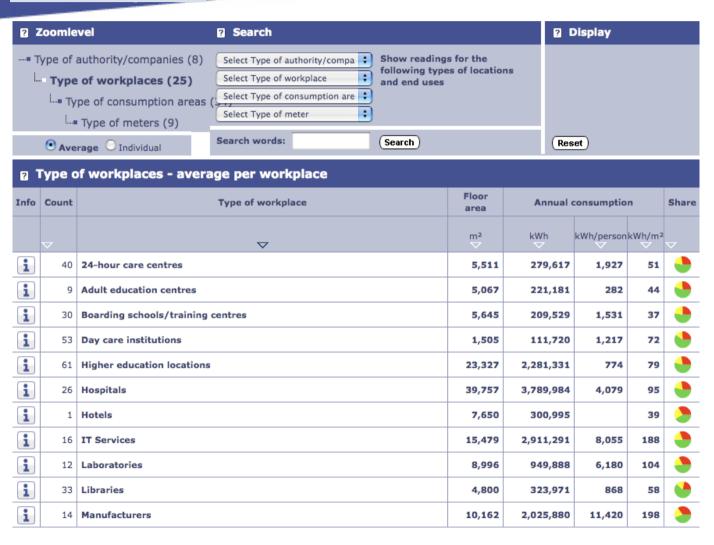
The Trust's tools and other offers

- Coaching
- Guidelines
- 'View Electricity Consumption'
- Self-check tools
- Staff campaigns and behavioural material
- Courses and training
- News by e-mail and newsletter



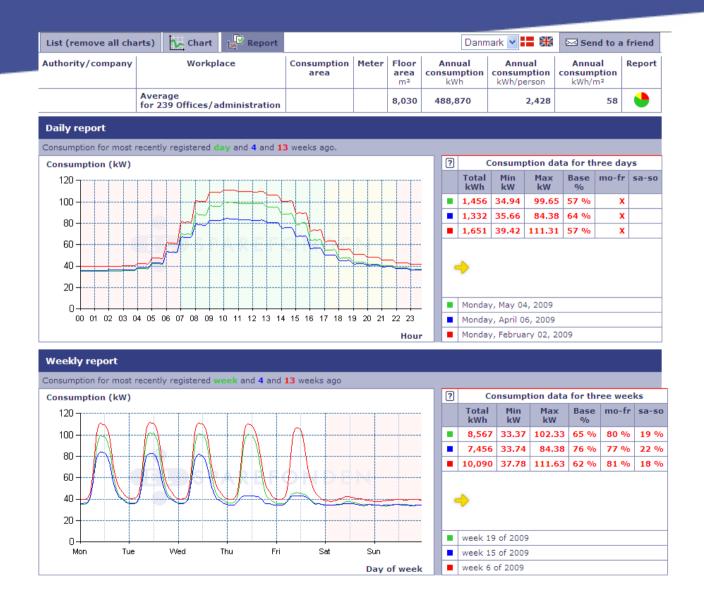
Making electricty consumption visible

www.savingtrust.dk/view-electricity-consumption



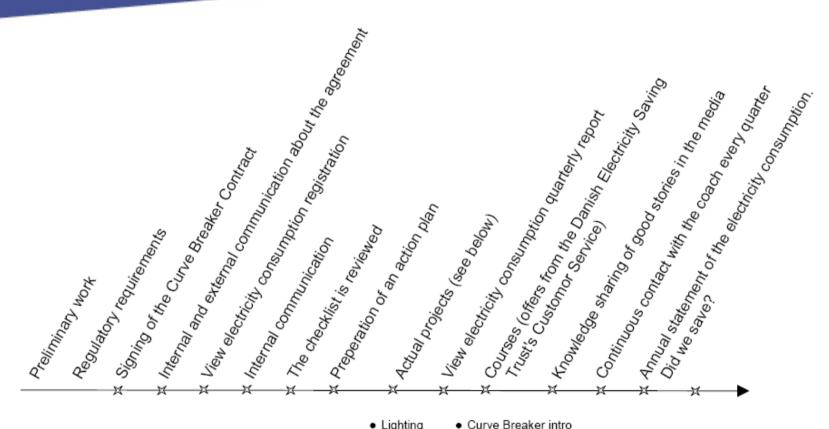


Averages for offices/administration





Curve Breakers Progress and inspiration arrow



- Lighting
- · IT and office Behaviour
- and awareness . Server room
- Purchase

Schools

- - Behaviour and awareness

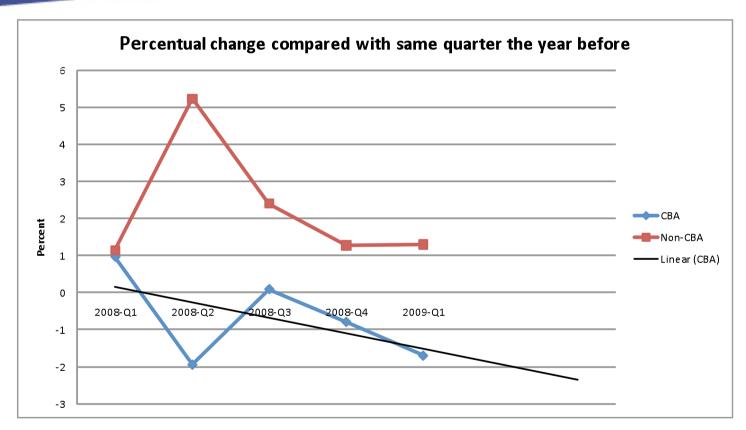
Night-check of energy consumption

Action plans



Has the curve been broken?

- Public Sector (approx. 800 workplaces)





Conclusions and lessons learnt

- The Curve breaker agreement is a very useful tool in the public sector (and private sector)
- Agreements should be concluded at macro level (e.g. the mayor of a municipality)
- It is important that the agreement parties can track the electricity consumption trend
- Curve Breaker organisations require coaching and support in the form of tools and other solutions (e.g. the Purchasing Guidelines, self-check tools and campaign material)
- Following up the agreements should take place throughout the agreement period.





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