



JST-FI 2012 FUKUOKA

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**Smart City
Kalundborg**



State of Green

Join the Future. Think Denmark



DANMARK 5,5 mio
indbyggere





2. The Climate Challenge

2⁰ C – EU20/20/20 → 2009 Danish Government:
"how can Denmark become fossil free in 2050 ?"



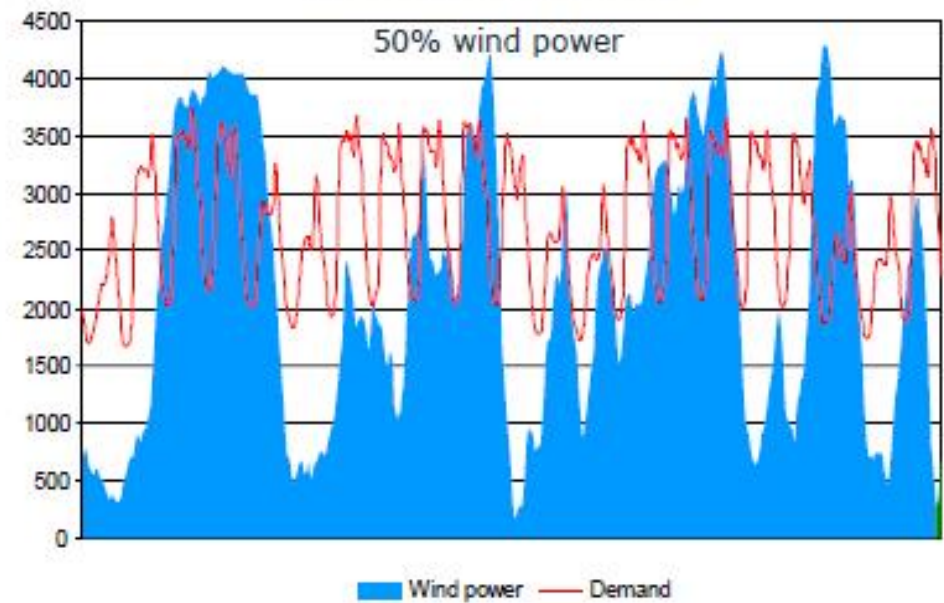
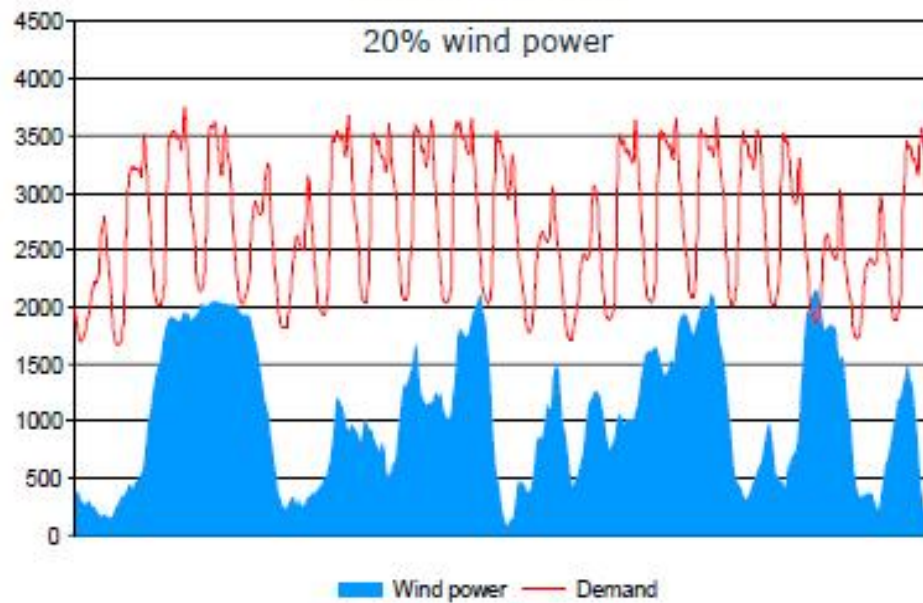
Danish Climate Commission 28 September 2010:
The answer is "*through wind and biomass*"



Today (2011)

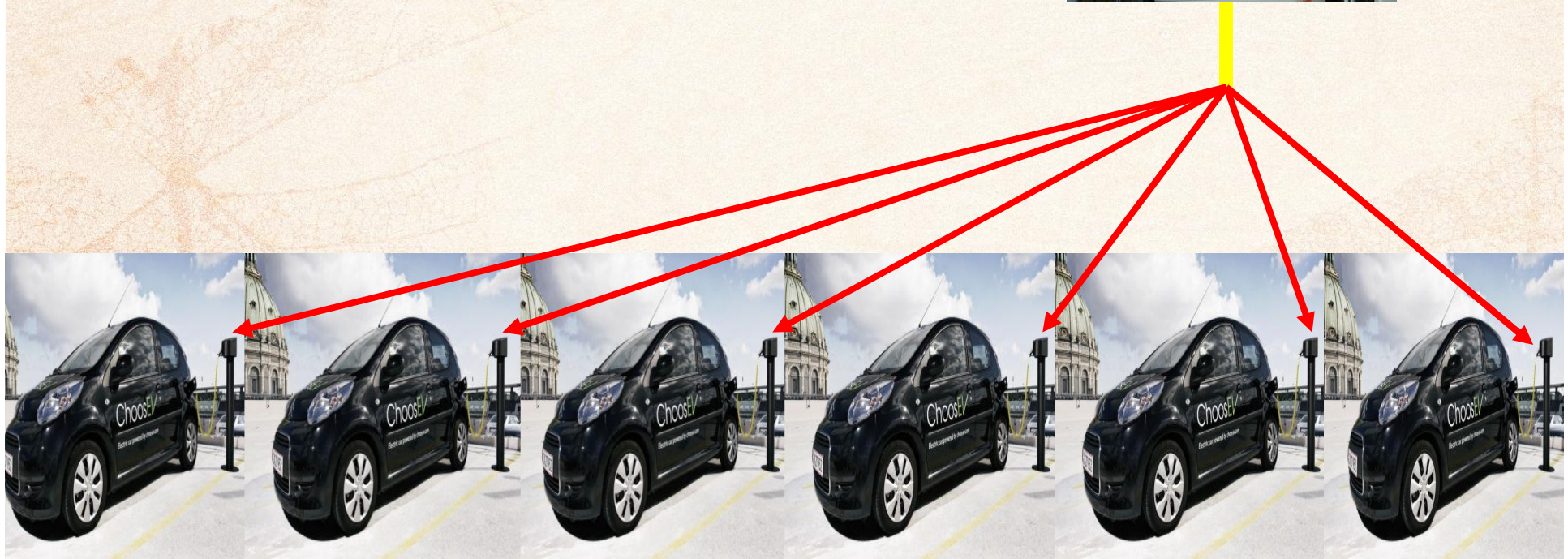
Source: EnergiNet.dk

Tomorrow (2020)



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*SEAS NVE (DSO):
"It can only takes 6 EVs
to shut down a distribution cable"*





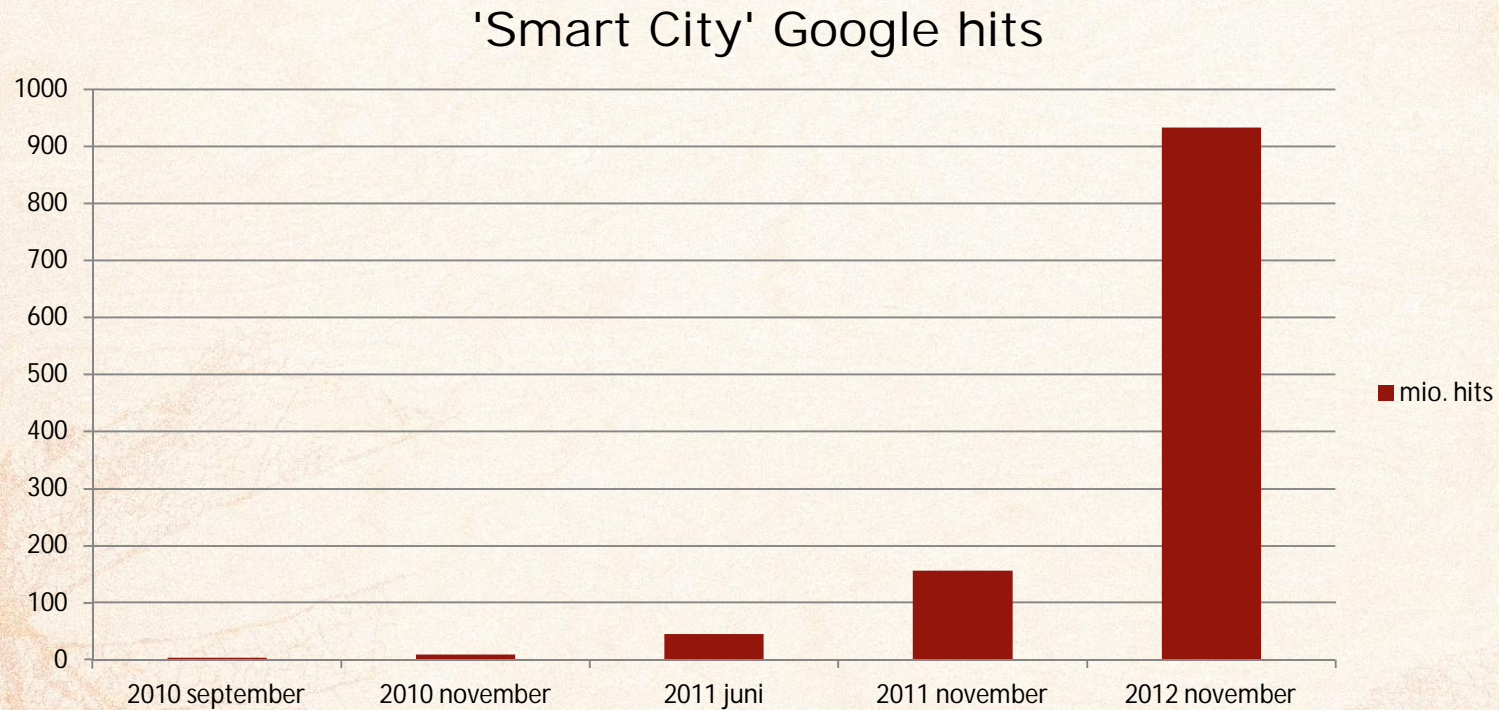
BUT WHERE IS THE
GROWTH TO FINANCE
THIS?



Ways to get
more for less



Solution is to introduce the 'smart city'
– a recognized 'buzzword'



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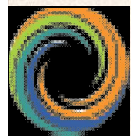




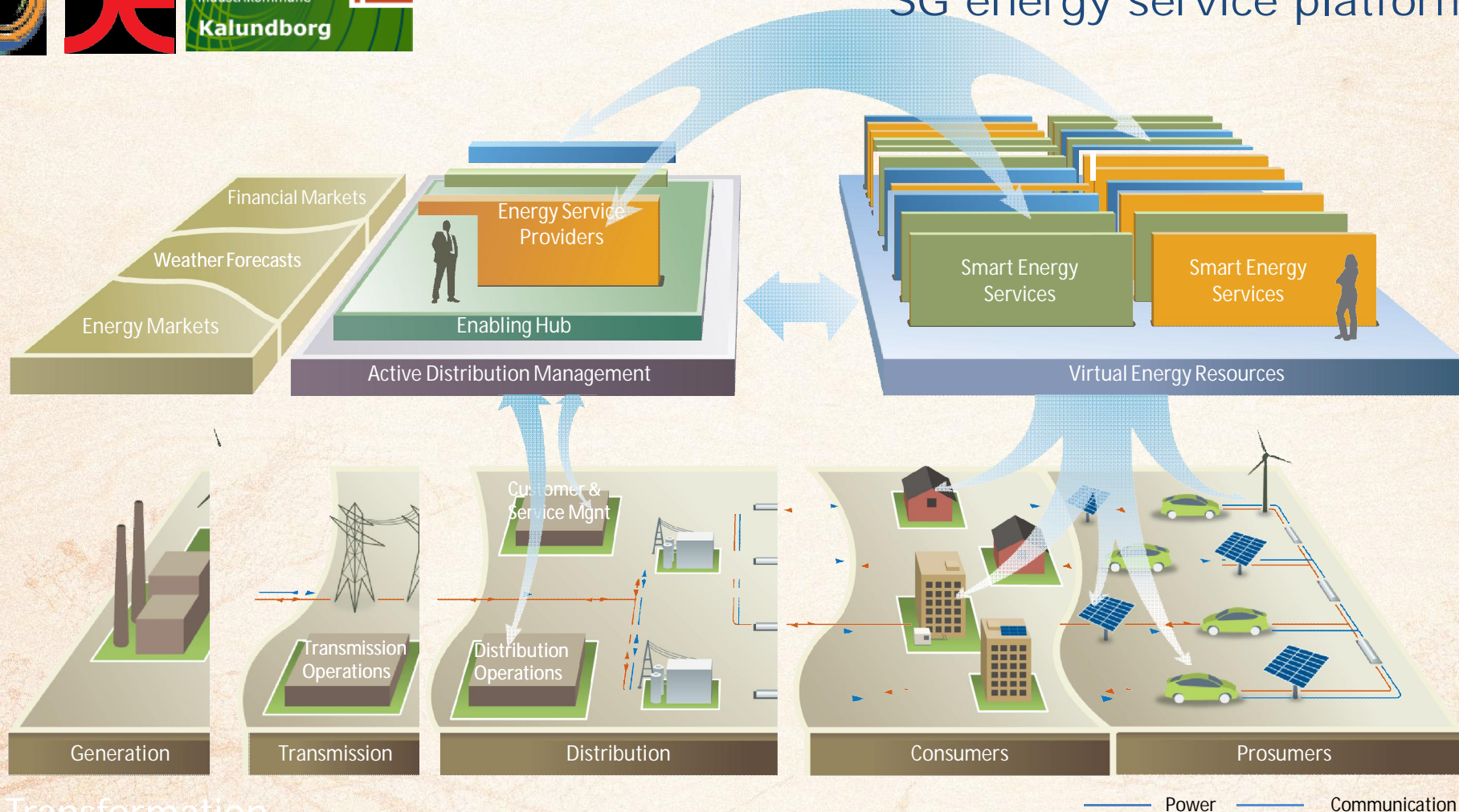
Involvement of end-users
(customers) is crucial
– how to incentivise flexibility



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Smart City Kalundborg SG energy service platform



Transformation
Grid-Friendly Services

Smart Cities need to be
inclusive
with the service
providers addressing
non-proprietary



WATCH WHATEVER WHENEVER.

With Sony's Betamax SL-8600 video recorder, you can see any TV show you want to see anytime you want to see it. Because Betamax, which plugs into any TV set and is easy to operate, can videotape a show up to three-hours long (with the L-750 videocassette) while you're doing something else—even while you're out of the house, by setting the electronic timer.

It can also videotape something off one channel while you're watching another channel.

And remember, Sony has more experience in videorecorders than anyone (over 20 years!). In fact, we've sold more videorecorders to broadcasters and industry than any other consumer manufacturer. We even make our own tape.

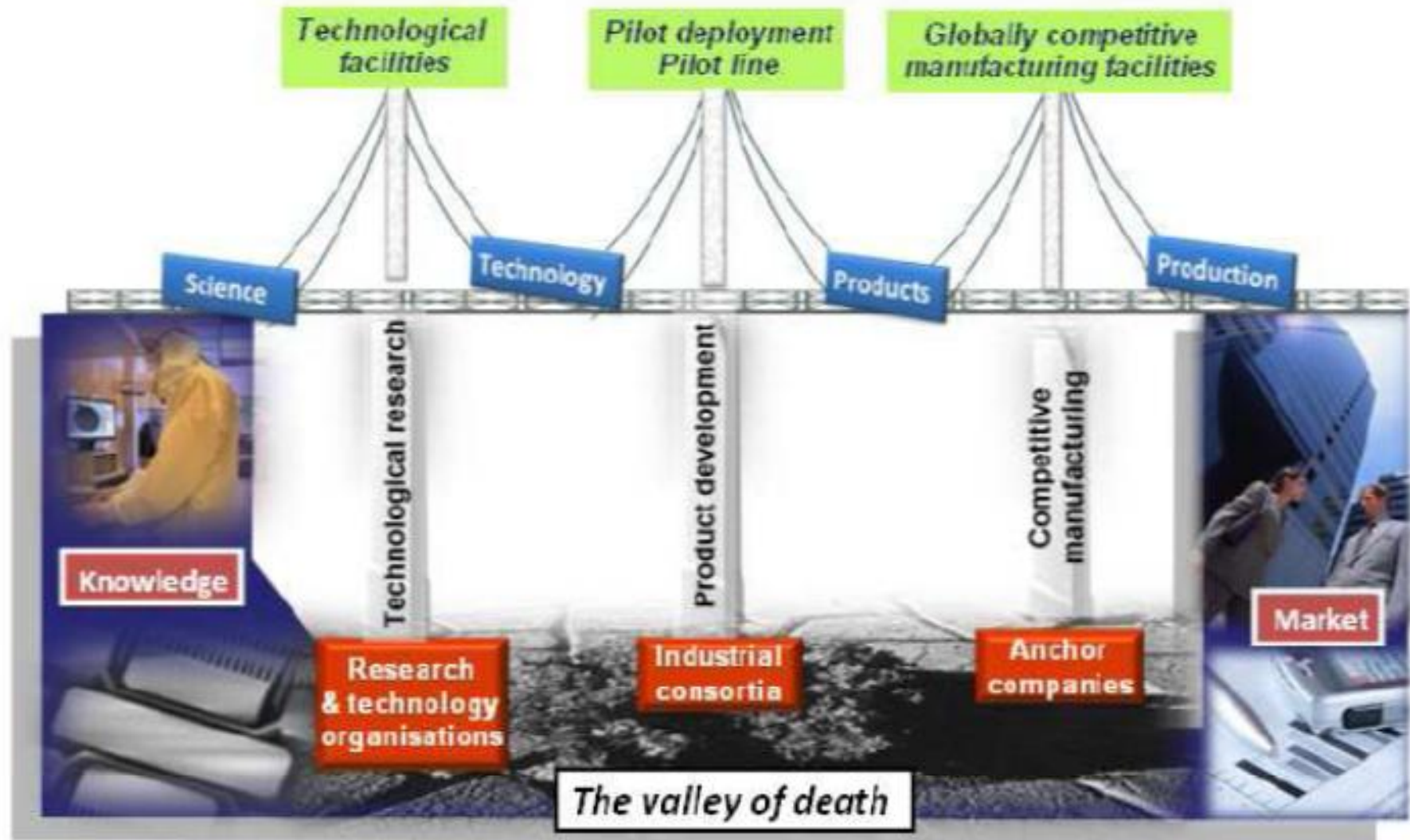
For years you've watched TV shows at the times you've had to. Now you can watch them at the times you want to.

A black and white photograph of a Sony Betamax SL-8600 video recorder with a vintage television set placed on top of it. The recorder has a digital display and various control buttons.

SONY BETAMAX
THE LEADER IN VIDEO RECORDING

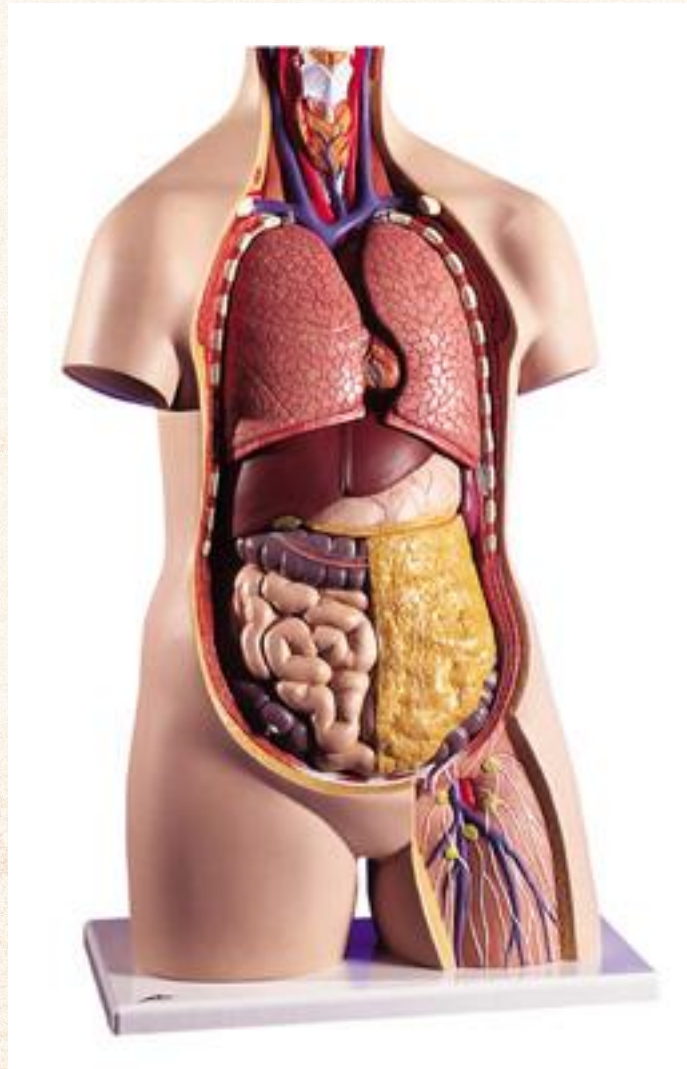
© 1979 Sony Corp. of America. SONY and Betamax are registered trademarks of Sony Corp.

New financial models – CAPEX&OPEX supporting R&D-Pilot-Demo-1stRef-Full-scale



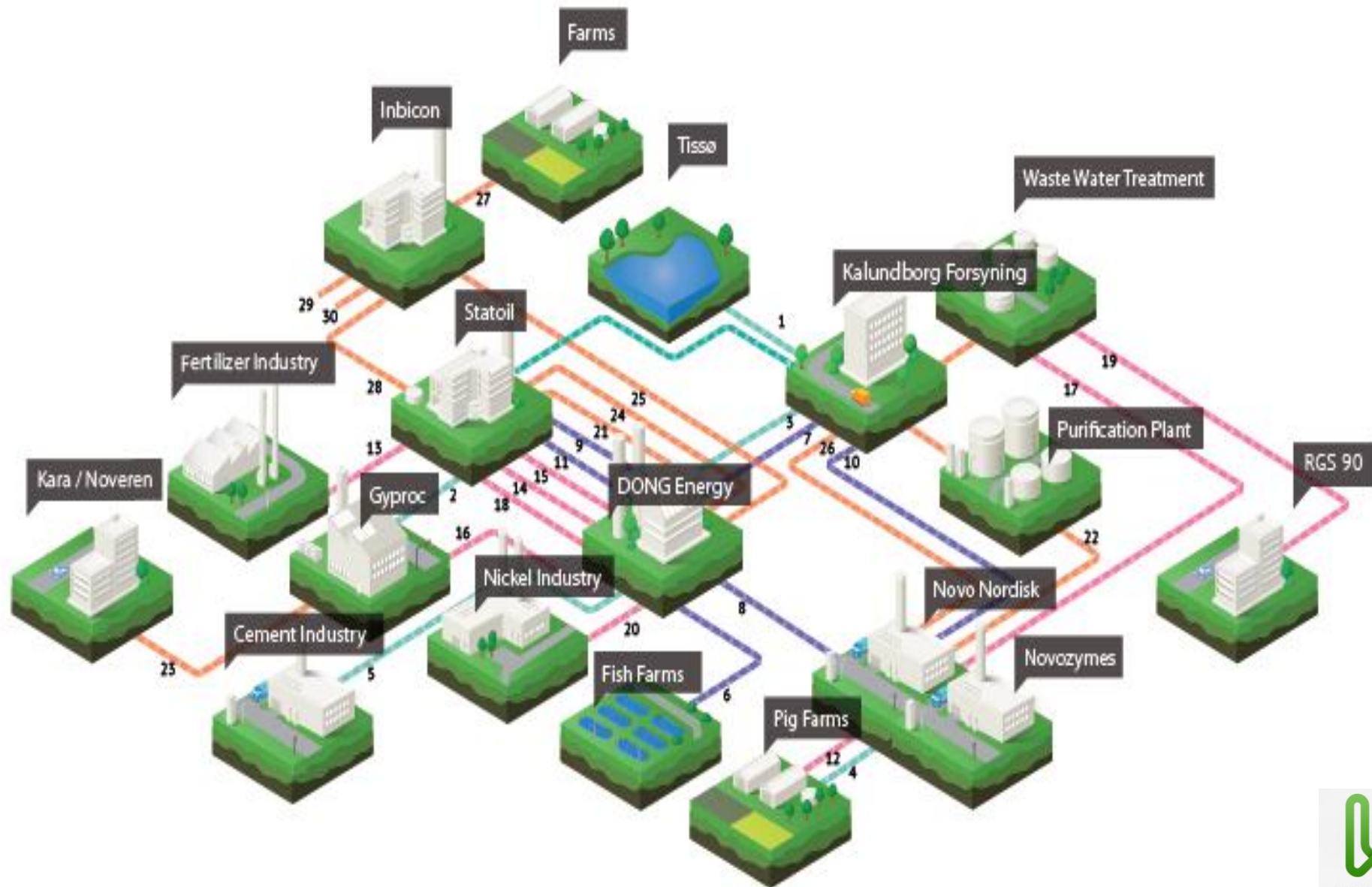
Kalundborg Smart City

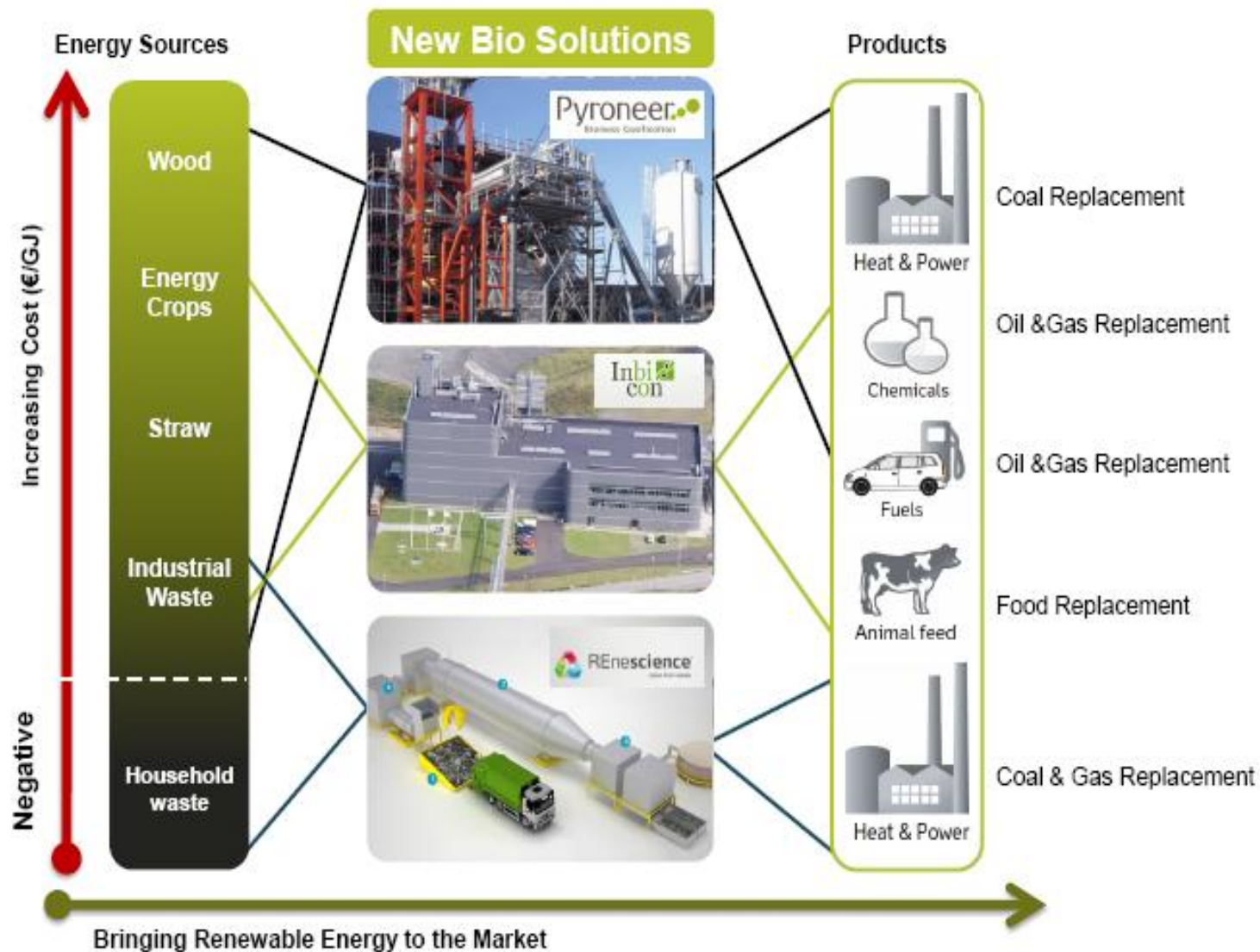
– a demonstratorium

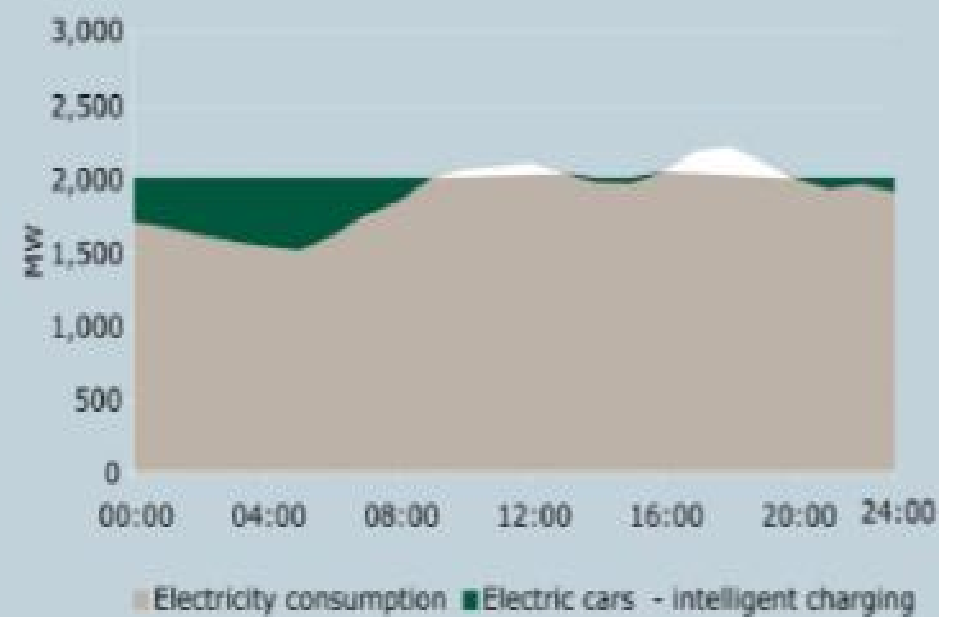
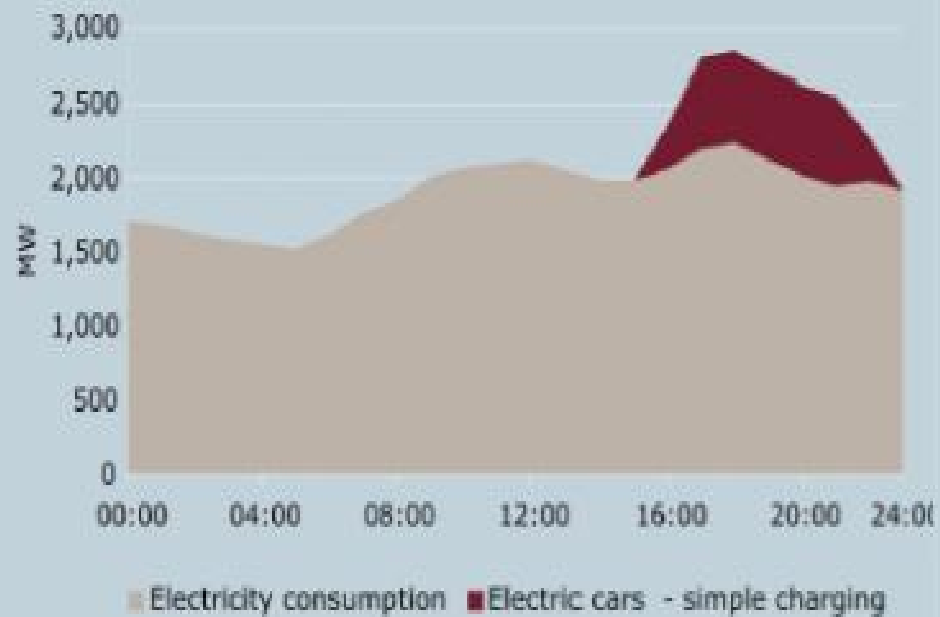


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KALUNDBORG INDUSTRIAL SYMBIOSIS SYSTEM 2012









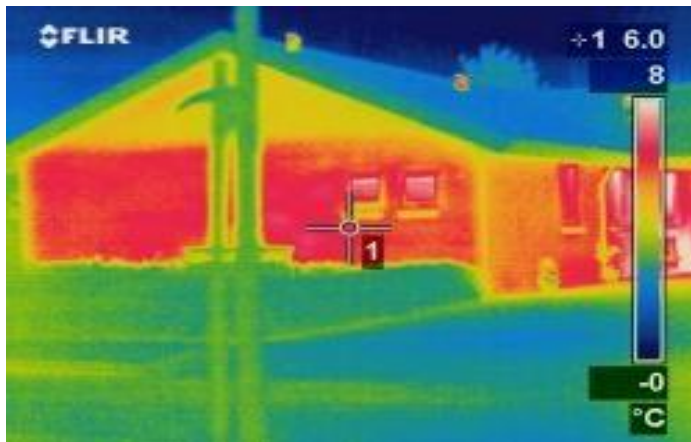
Solceller indviet på rådhusets tag



Hillerød: Med to års forsinkelse
Rådhus. Projektet blev sparet

Læs hele artiklen i [Sjællands](#)





Bundling af energitjenester i bygninger



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Service providers to Smart Cities similar to Apps
...just meant for energy







POLITIKEN.DK

København frikender borgmester for svindel

Københavns tidligere bygge- og teknikborgmester får ikke flere smæk i sag om bopælssvindel.

Socialt bedrageri i Danmark
Omfang, adfærd og holdninge
KMD Analyse



Social svindel når historisk bundrekord

Trods ti års klapjagt på danskernes svindel med børnebidrag, bistandshjælp, dagpenge og pension, bliver historisk få bedragere meldt til politiet i år. Alligevel er socialminister Henriette Kjær klar med ny stramning

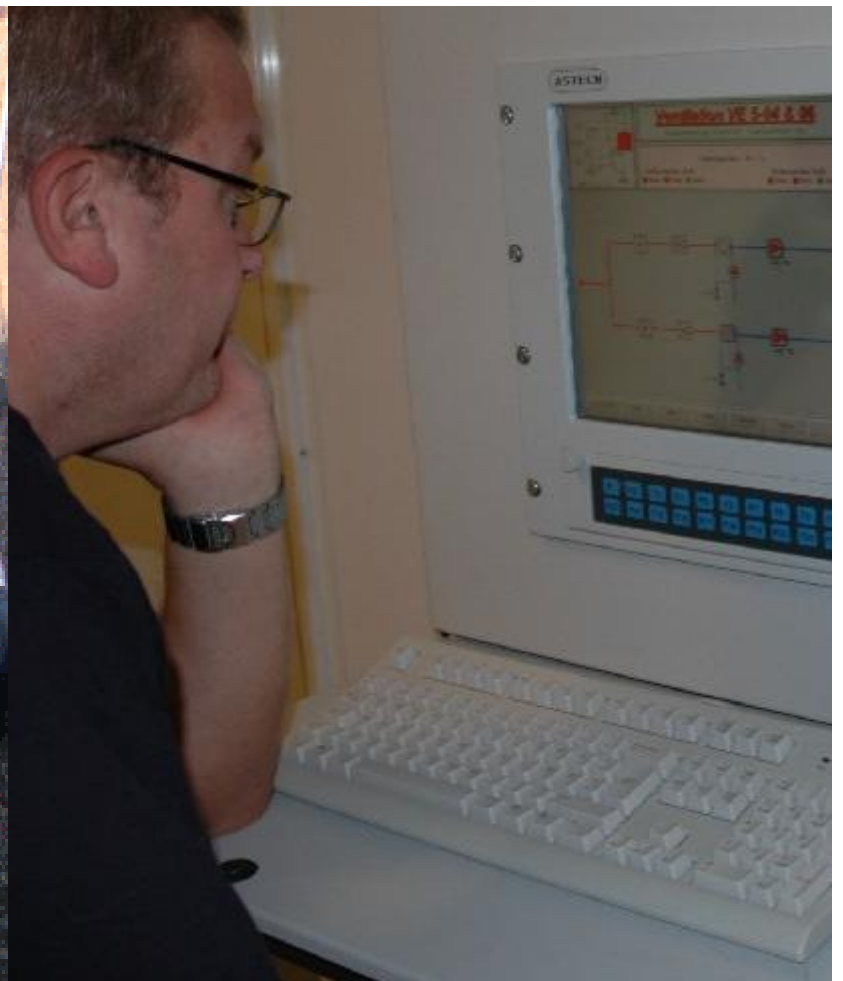
An Roinn Coimirce Sóisialaí

Department of Social Protection

Helping you build a better life

You are Here: [Home](#) > [Secure](#) > Reporting Suspected Social Welfare Fraud

Reporting Suspected Social Welfare Fraud



CONCLUSION:

- PPP answer to get '*More For Less*' resource efficiently circumventing scarcity of resources and improper organisational e.g. EPC and ESCOs
- Bundle consumption, DER and flexible demands with end-users
- Public planners and administrations need to diversify from traditional deeds acting as proactive *catalysts* for deploying smart grids symbiotically e.g. water-energy nexus
- Mixing CAPEX and OPEX enables new technologies to be deployed on market terms
- *Micro-generation* and uptakes of new technologies for avoiding extension of capacities of centralised utilities

