



DANISH ENERGY AGENCY

UTILITIES
AND SUPPLY

SUBSOIL RESOURCES
AND RISK
PREPAREDNESS

ENERGY
EFFICIENCY

ENERGY
ADMINISTRATION

GLOBAL
COOPERATION

SYSTEM
ANALYSIS

RENEWABLE
ENERGY

ORGANISATION

Focus on end-users
Appx 80 people in five
teams

- Green Industry
- Buildings
- Subsidy scheme for enterprises
- Information campaigns
- European regulation



Danish experiences with EE-schemes

*Danish Energy Agency
(DEA)*



AGENDA

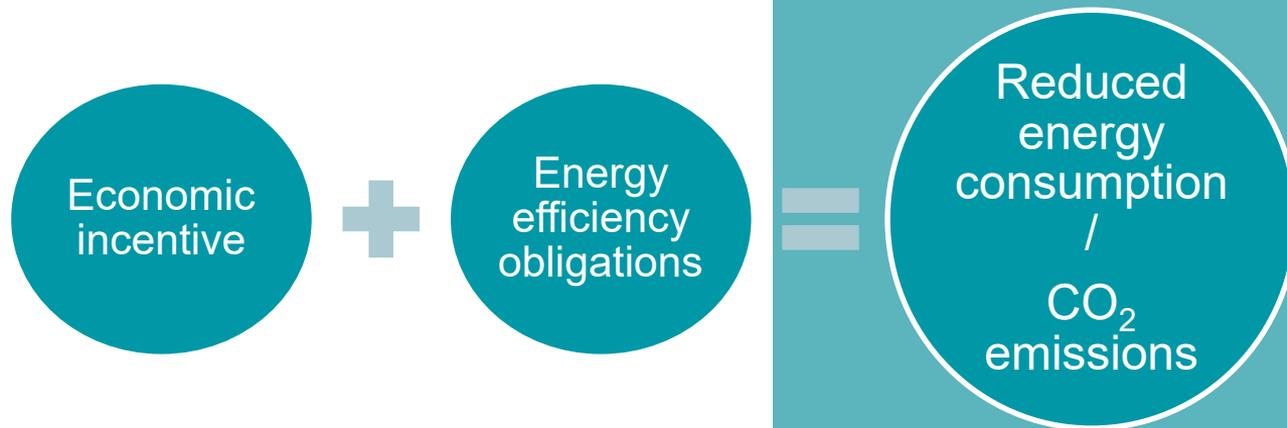
- Voluntary agreements (VA) between DEA and industry
- PSO: VA for the electro intensive industry 2015-2020; lessons from the scheme
- EFO: Current VA-scheme
- ERP: Subsidy scheme for enterprises
- EUDP: Energy-technological development and demonstration program

Christian Louison Vang
Advisor, Danish Energy Agency
Centre for energy efficiency

chva@ens.dk

+45 33 95 08 20

BASIC CONCEPT OF VA-SCHEME



LESSONS LEARNED

VA FOR ELECTRO-INTENSIVE INDUSTRY

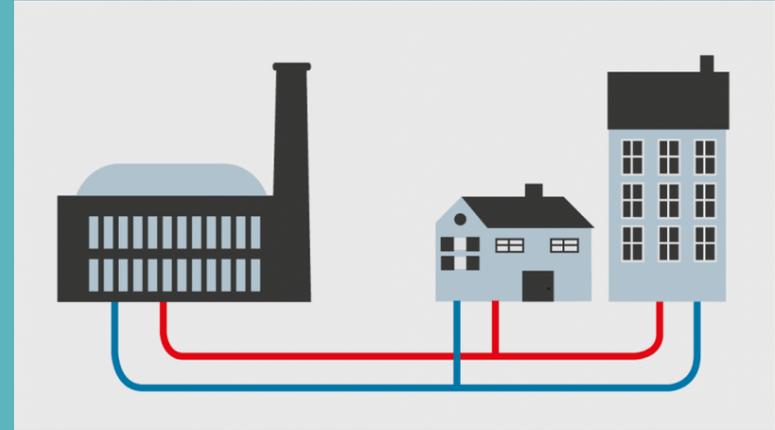
1. Experience from Denmark shows that VA-schemes are effective in achieving energy savings in industry.
2. The economic incentives must be in balance with the energy efficiency obligations.
3. Sanctions, if the requirements are not fulfilled
4. External verification and supervision important
5. Continuous involvement of stakeholders
6. Transparent framework and simple administration
7. Continuously evaluate to adjust/improve
8. Reportings/documentation in templates

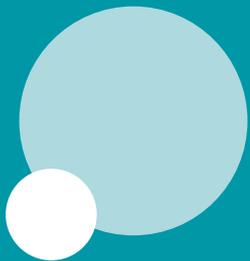


CURRENT VA-SCHEME

EFFICIENCY SCHEME FOR SURPLUS HEAT (EFO)

- Aimed at companies with surplus heat delivered to district heating
- Companies gain tax exemption (on surplus heat)
- Energy efficiency obligations:
 - Energy review every 3rd year
 - Implement energy saving projects with 5 year payback time
 - Only focused on energy savings on surplus heat



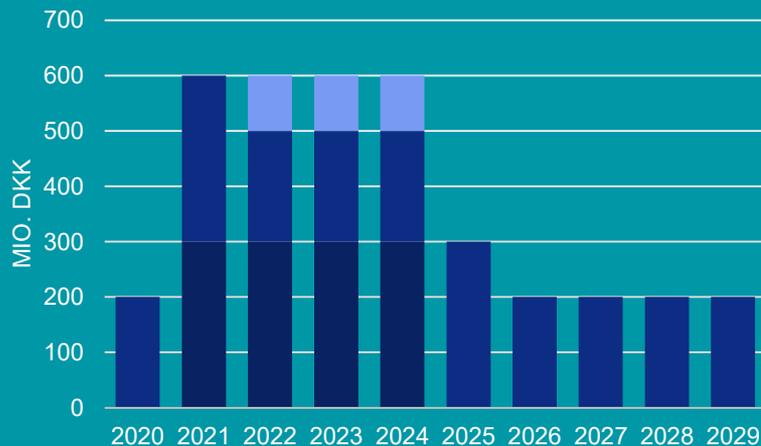


Subsidy scheme for enterprises

Promotes effective energy usage and conversion through targeted subsidies.

€ 530 million to be distributed 2020-2029

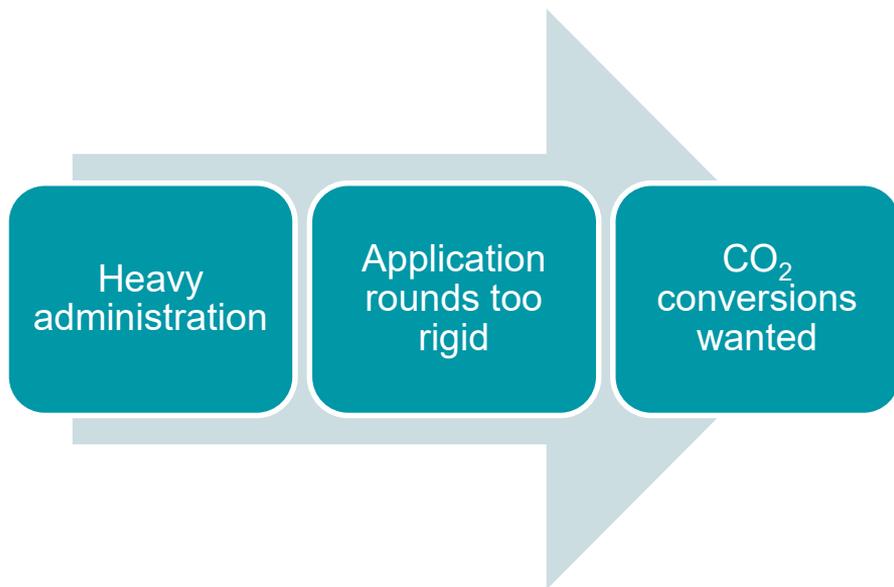
Profile 2020-2029





LEARNINGS AND ADJUSTMENTS TO THE SUBSIDY SCHEME

CLIMATE AGREEMENT ON GREEN ELECTRICITY AND HEATING 2022



1. CO₂ as a supplementary criterion for funding.
2. Abolish demands for competition for funds
3. Positive-list with preset support rates.
4. Rounds abolished, possibility of early start on projects
5. Higher support rate for green transition coupled with energy saving initiatives
6. Stop for subsidies for new gas installations
7. Priority for gas-reducing projects

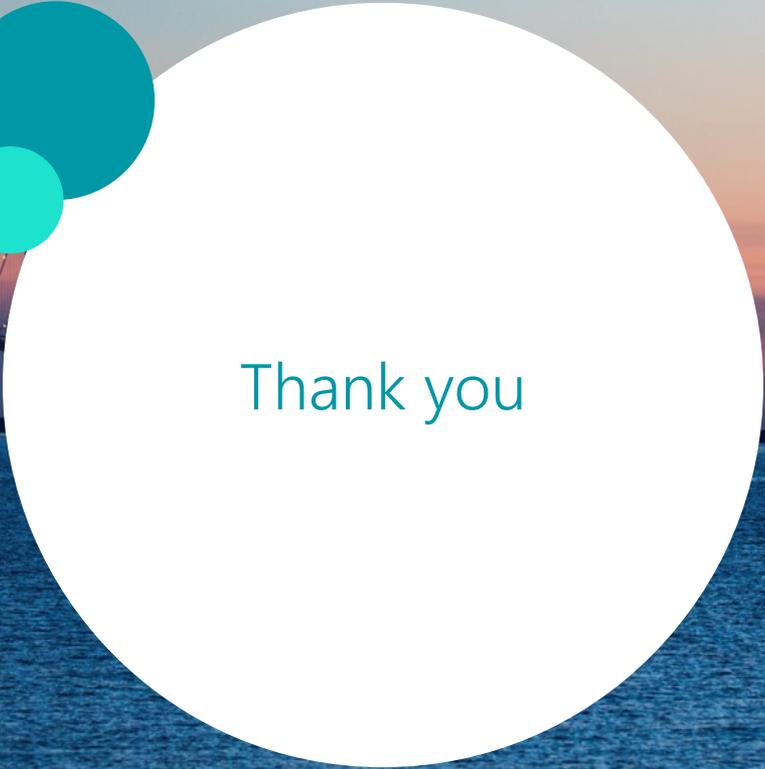
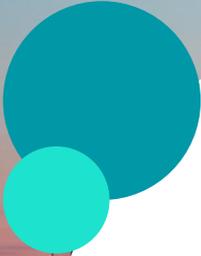
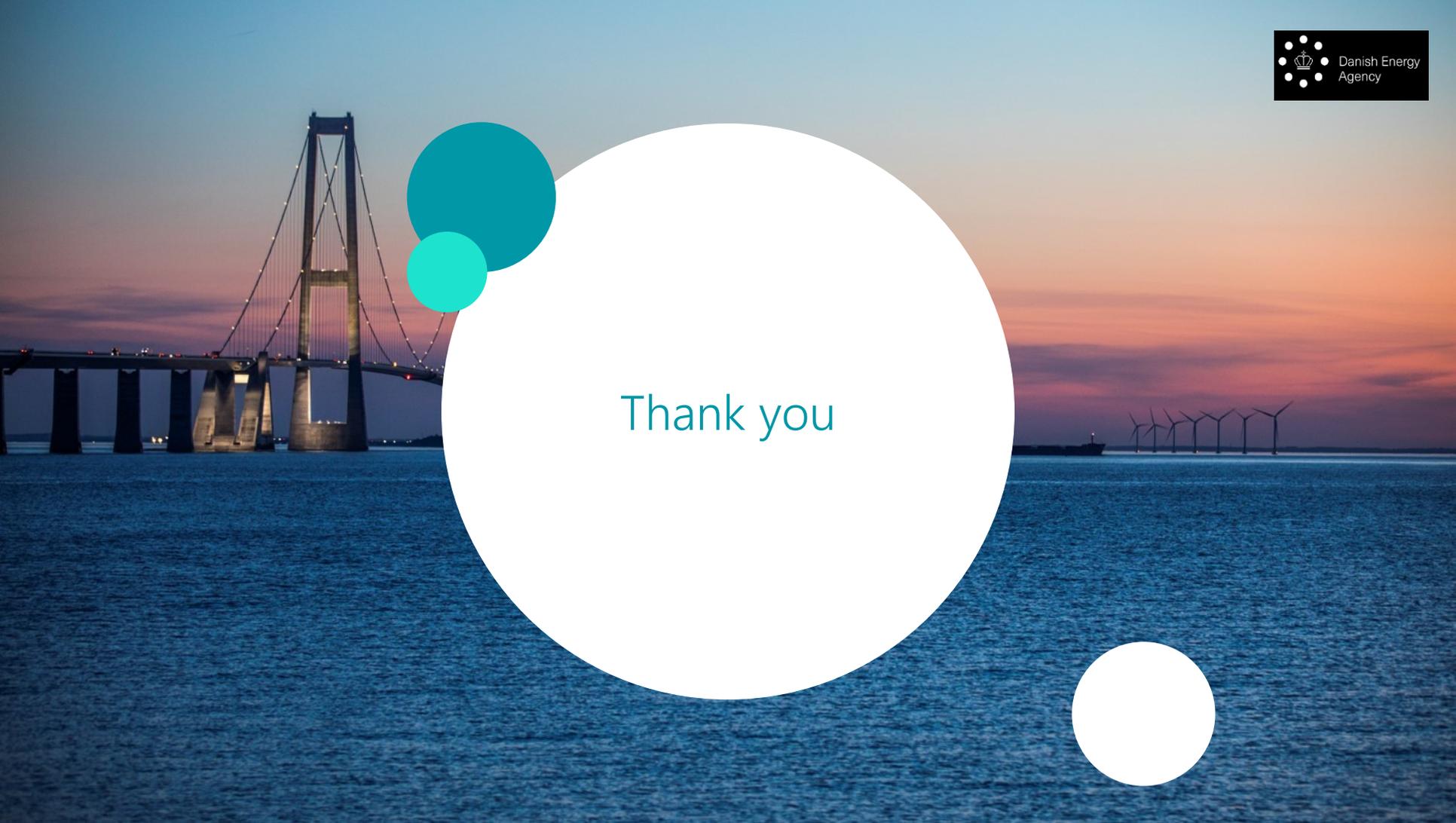
EUDP and Green Labs DK

- EUDP supports development and demonstration of new energy technology
- Green Labs DK supports larger test facilities for energy technology and the like

Targets

- Security of supply
- Independence from fossile fuels
- Climate and clean environment
- Costeffectiveness
- Danish business interest
- Public-private cooperation

- Yearly support of ~70 € mill. –established on yearly finance law
- Has created support for approx. 1.000 projects with ~670€ million. – which supplements own-payment of projects
- About 1/3 of project applications receive subsidies



Thank you