

Sonderborgs ProjectZero



ProjectZero is an enabler
for Sønderborg to become a
ZEROcarbon community by 2029,
based on sustainable growth
and creating new **Green jobs**

20 years ahead of a fossil free Denmark

Our approach is holistic
and include Public Private Partnership,
technology, solutions, business, participation
... and a new thinking!



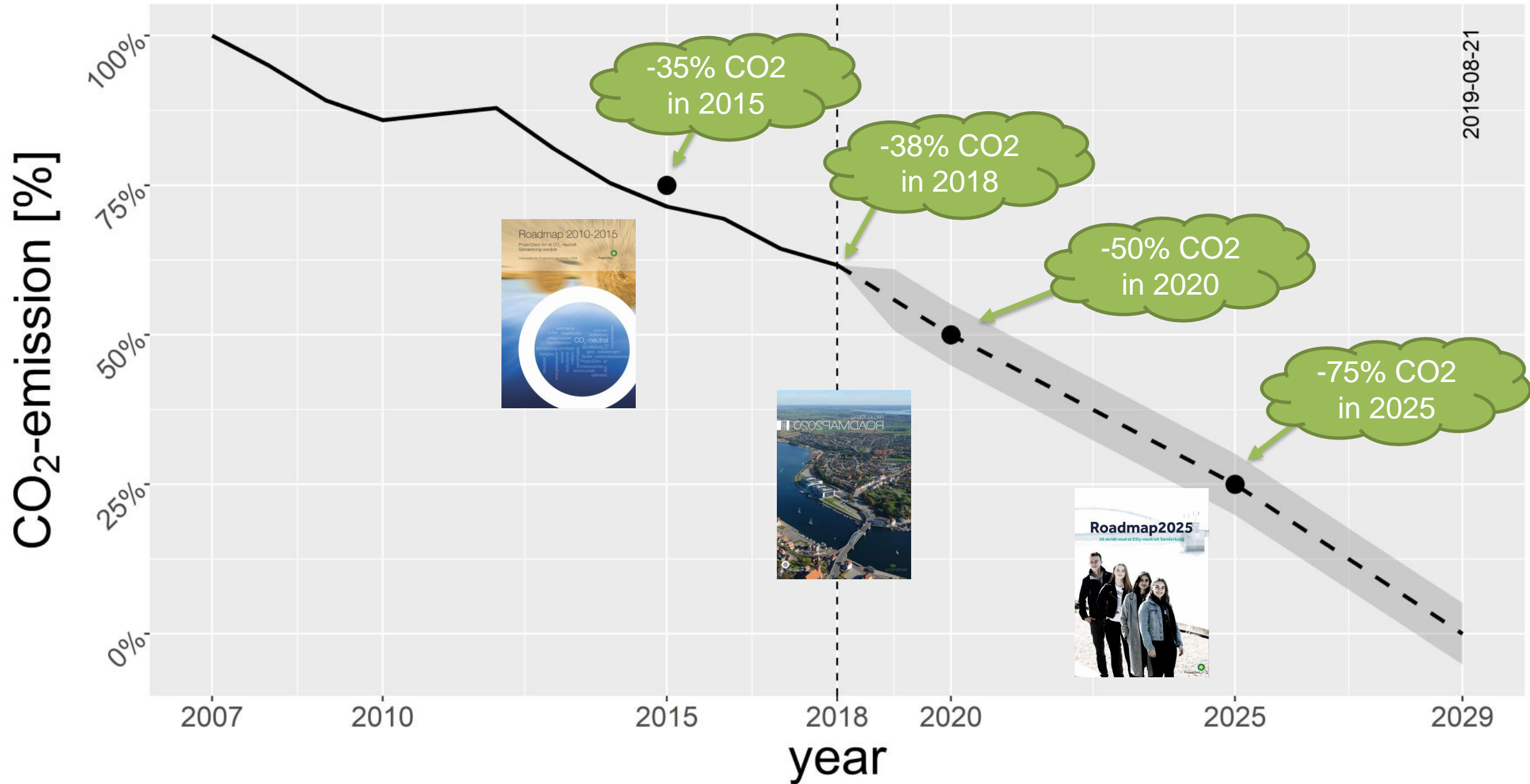


ZERO i 2029
Spar selv ét ton CO2

Project Zero
En verden til forskel

Best Seller

CO₂-reductions in Sonderborg



Major Achievements

- 1,600 homes visited by Charlie
- 65% have initiated retrofit with average €21,000 generating €15 mio in craftsmen sales
- Energy savings up to 45% per household
- 65% of local craftsmen has been trained in energy consulting- and solutions
- Over 50% of all local shops is a part of ZEROshop
- Energysavings up to 60%
- Local partnership whit craftsmen
- Biogas plant in progress
- PV-plants
- Biogas busses for transport



Energy efficiency improvement

Require participation from all society stakeholders



UNESCO
Learning city

University College &
University

High Schools

Elementary &
Mid school

Kindergarten

*Green curriculum
2.0*

How?

- **Changing society thinking and mindset**

16.000 young climate ambassadors

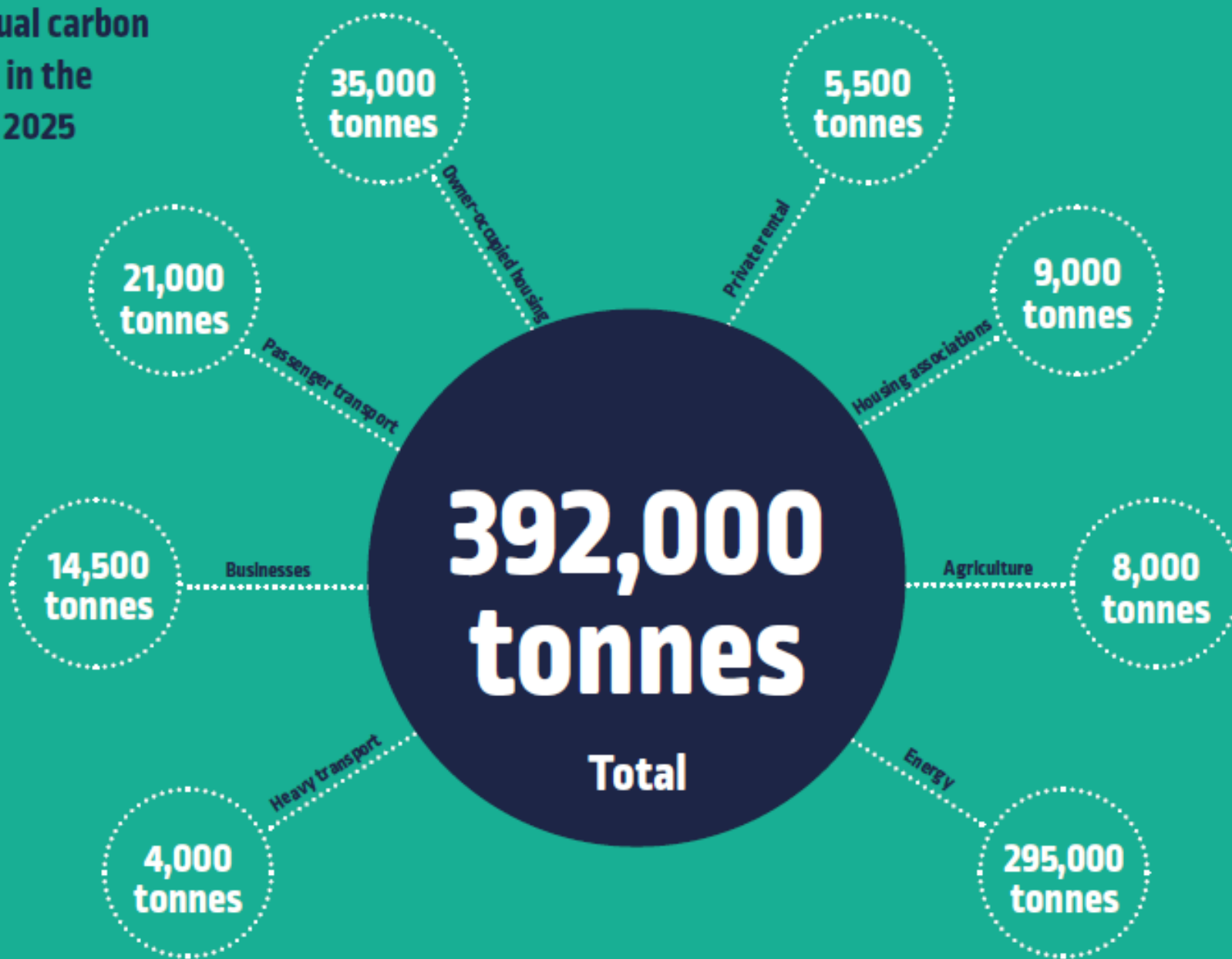


Roadmap 2025

50 steps towards a CO₂-neutral
Sonderborg



Total annual carbon reduction in the 8 areas in 2025



8 workgroups have developed 50 projects



Happi

Infusing our housing association
with energy efficiency

Project partners



EUC-SYD



BOLIGSELSKABET
DANBO



42 

Bright Green Business
ProjectZero
En verden til forskel



Happi

Infusing our housing association
with energy efficiency



This project has received funding from the [European Union's Horizon 2020 research and innovation programme] [European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme] [Euratom research and training programme 2014-2018] under grant agreement No. 785147

HAPPI – collaboration with all Housing associations

The *overall objective* of the project “Social Housing Association Energy Efficiency Process Planning and Investments” (HAPPI) is to:



- Increase the energy renovation rate within the social housing sector via an exemplary action



- Bringing together six social housing organizations in the Danish municipality of Sønderborg



- To tackle the complex interplay of non-technological barriers (organizational, legal, financial) Through process organization and capacity building

leading ultimately to an aggregated **15,2 MEUR** investment programme for sustainable energy measures in their existing building stock.

The total energy efficiency investment will include **56 departments** of the 6 social housing organizations' building stock, involve a total of appr. 6.000 tenants in **3.318 homes**.

HAPPI impact

Energy training programme to **50-100 persons**, including CEOs, CFOs, technical/administrative staff, caretakers and service staff and central and department board members.

The investment launched by HAPPI is anticipated to lead to energy savings of appr. 11.5 GWh/year + 1.6 GWh/year production of renewable energy and annual **reductions of 1.640 tons CO2 eq.**

Key learning



Happi

Infusing our housing association
with energy efficiency



This project has received funding from the [European Union's Horizon 2020 research and innovation programme] [European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme] [Euratom research and training programme 2014-2018] under grant agreement No. [number]



Finances:

- 5 different financing schemes
- Cheap mortgages
- Knowledge of potential

Conclusion:

Finances is available



Resources to:

- Identifying the right projects
- Planning the project
- Oversee the process
- Tenants information

Conclusion:

Lack of manpower



Happi

Infusing our housing association
with energy efficiency



This project has received funding from the
[European Union's Horizon 2020 research and
innovation programme] [European Research
Council (ERC) under the European Union's Horizon
2020 research and innovation programme]
[Euratom research and training programme
2014-2018] under grant agreement No. [number]

Solutions:

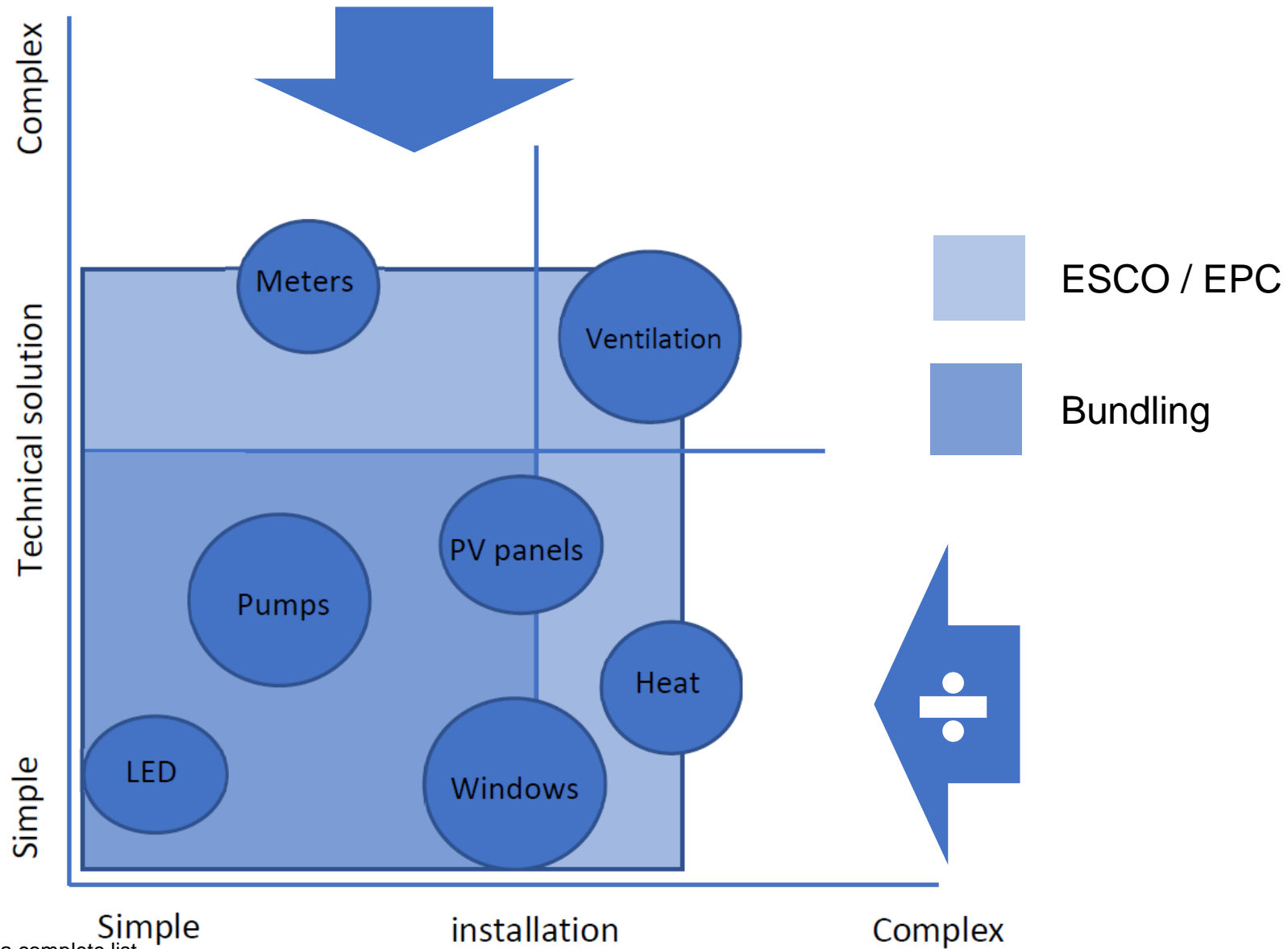
Bundling Projects

ESCO solutions



This project has received funding from the
[European Union's Horizon 2020 research and
innovation programme] [European Research
Council (ERC) under the European Union's Horizon
2020 research and innovation programme]
[Euratom research and training programme
2014-2018] under grant agreement No. [number]

Identifying solution





Happi

Infusing our housing association
with energy efficiency

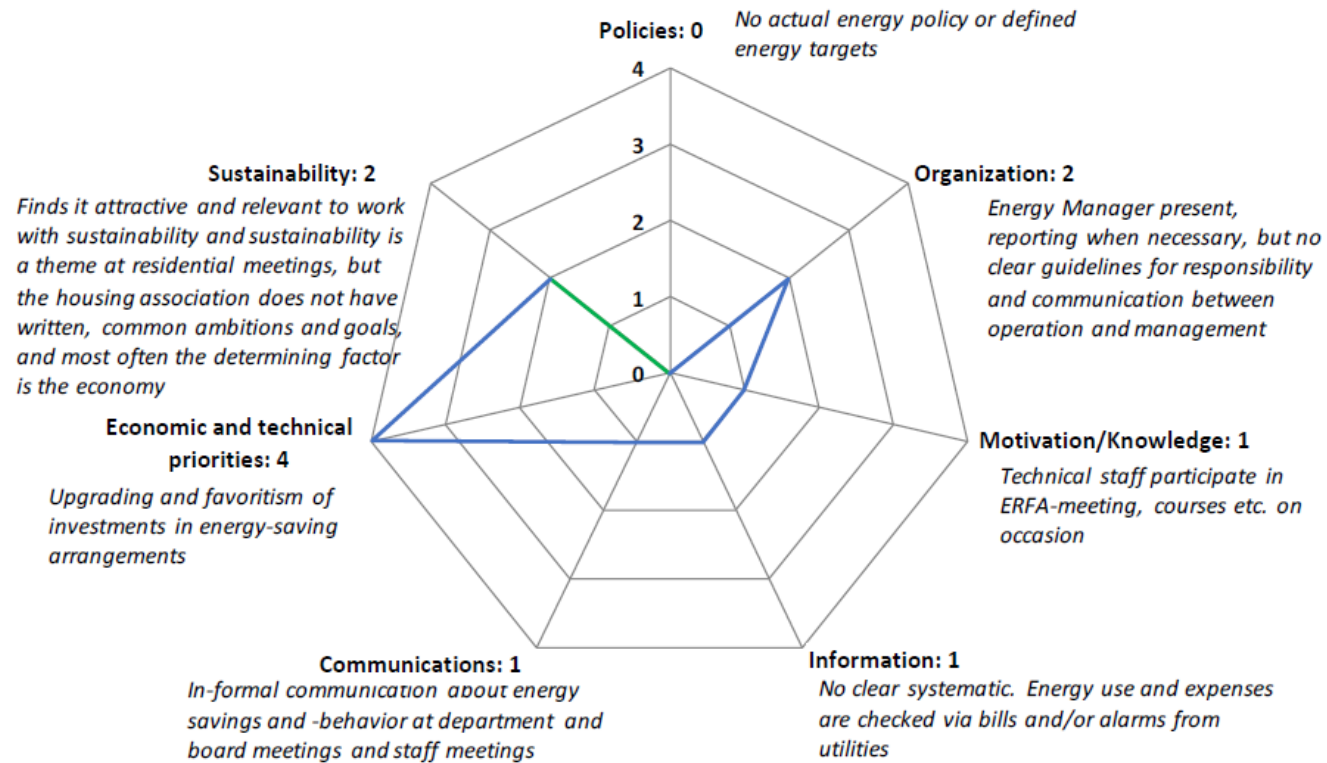
Empowering the housing association



This project has received funding from the
[European Union's Horizon 2020 research and
innovation programme] [European Research
Council (ERC) under the European Union's Horizon
2020 research and innovation programme]
[Euratom research and training programme
2014-2018] under grant agreement No. [number]

Energy profile

Energy Management Profile



Energy strategies



Happi

Infusing our housing association
with energy efficiency



This project has received funding from the [European Union's Horizon 2020 research and innovation programme] [European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme] [Euratom research and training programme 2014-2018] under grant agreement No. [number]

Major achievements

- Empowerment through energy strategies
- Stronger collaboration
- Knowledge of solutions



This project has received funding from the [European Union's Horizon 2020 research and innovation programme] [European Research Council (ERC) under the European Union's Horizon 2020 research and innovation programme] [Euratom research and training programme 2014-2018] under grant agreement No. [number]

smar+
en
ci+y



ACTION FOR
ENERGY EFFICIENCY
IN BALTIC CITIES
ACT NOW!



Thank you for your time

Happi

Infusing our housing association
with energy efficiency



Bright Green Business
ProjectZero
- means the world...

Henrik Bielefeldt
hb@peojectzero.dk