



Happi

Infusing our housing association
with energy efficiency

smar+
en
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CLIMATE+
Climate Positive
Development Program

C40
CITIES
CLIMATE LEADERSHIP GROUP



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]

What is our goal?

Sonderborg wants to be a ZEROcarbon growth area 20 years ahead of the rest of Denmark.

ProjectZero is the vision of growth and **green jobs** resulting in a ZEROcarbon Sonderborg in 2029 – Bright Green Business.

We want to be an inspiration to other cities.



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Bright Green Business

ProjectZero

En verden til forskel



Energirenoveringer kræver beboernes tillid til valg af finansieringsløsning

- Henrik Bielefeldt, Afdelingschef, Project Zero



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Project partners



EUC-SYD



Boligforeningen **B42**



Bright Green Business

ProjectZero

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S A B

BOLIGSELSKABET
DANBO



Gråsten

Andelsboligforening



NAB



SABO



Dansk Energi Management & Esbensen
En del af Danish Management Group



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What will HAPPI address



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How to finance EE



How do we plan and monitor EE



How do we engage with the tenants



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Key learning



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Pointer fra Happi:

- Hvis en afdeling har udfordringer med finansieringen, er der ofte andre underliggende problemer.
- Hvis kommunikationen omkring projektet ikke er god nok, kan forslaget falde og dermed bliver finansiering et problem.
- Dårlig økonomi fører til dårlig renovering og vedligehold - der fører til tomgang – ond cirkel.



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Tillid

En barriere til finansiering



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Forslag

3. Etablering af solcelleanlæg

Budget 3,36 mio. kr (triskud ca. 950 t/kr) i
husejersktion på ca. 120 kr. pr. bolig.

Forslaget giver en el-besparelse som ikke er
13 år = finansiering over 20 år. Dvs. besparelse

0,42 har reduceret det ansøgte areal udregnet
været for højt. Men yderligere undersøgelser

Såfremt arealet bliver meget højere at ud
når alt er på plads mht. størrelsen.

Risiko - loven omkring virtual af



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Financing vs resources



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Pointer fra Happi

Manglende interne ressourcer til:

- Udarbejdelse af projektet
- Være bygherre
- Gennemfører beboermøder

Bestemmer mulighederne for energirenoveringer



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Ressourcer

Hvad er en boligforenings hovedopgave?



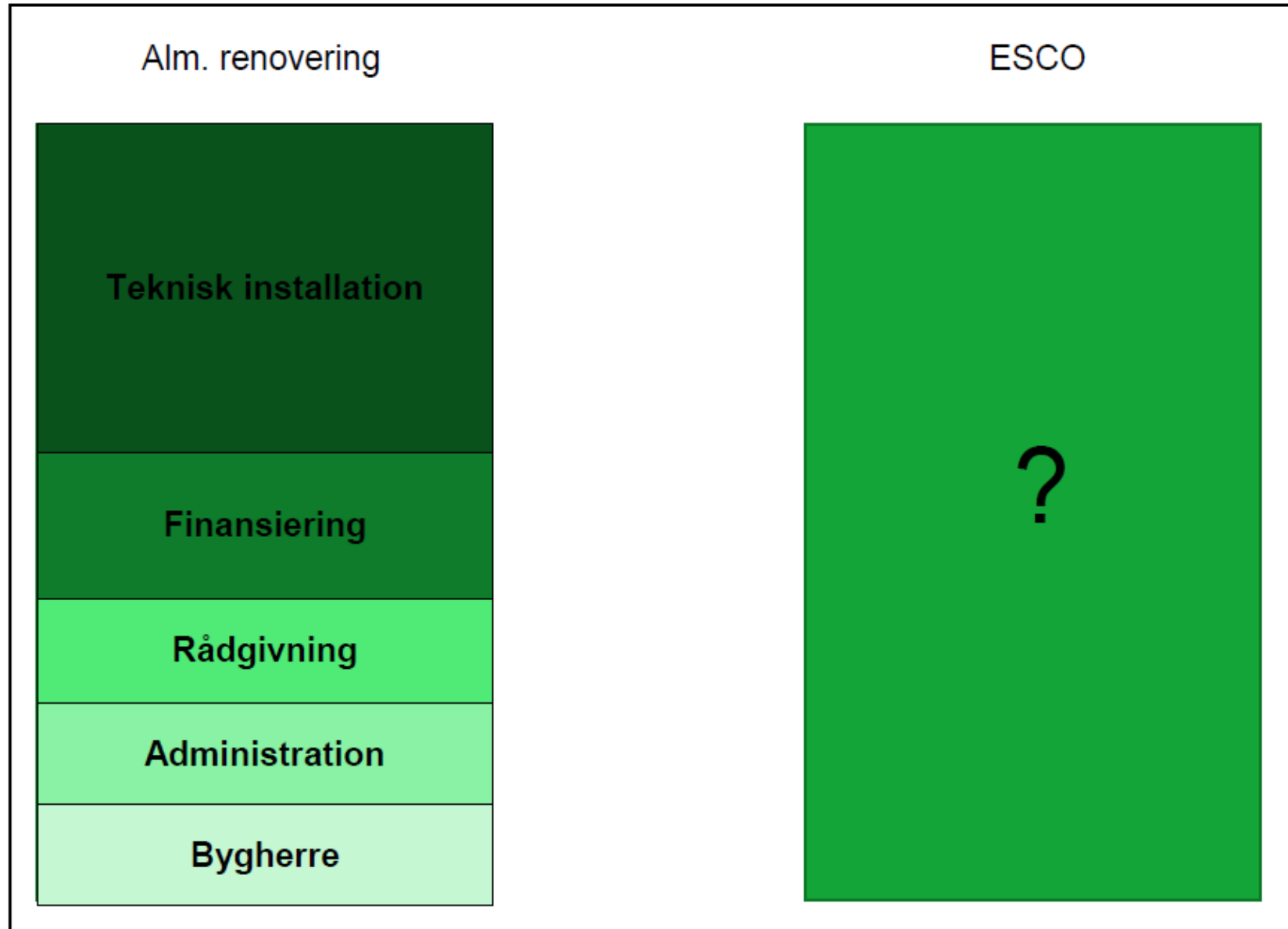
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