



Conference:
**“Increasing energy efficiency through Public-Private
Partnership projects in the BASREC-countries”**

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**PPP (EPC)
in the Danish municipal sector**

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Introduction

Denmark

- 43,094 km²
- 5.5 million people
- 98 municipalities
- 5 regions, but limited role in the energy field

Energy & climate policy

- **2035:** The electricity and heat supply covered 100% by renewable energy
- **2050:** All energy supply – electricity, heat, industry and transport – is covered by renewable energy
- In general there is a good framework for energy efficiency, but no strong specific policy for PPP



PPP/EPC development in the municipal sector :

Time line



Moving from first to second generation of EPC projects in Denmark

First generation of EPC projects

- Volume up to 3 MEUR
- Limited to public buildings and the 'low hanging fruits' of building measures
- The guaranteed energy savings from the ESCO-supplier were usually in the range of 15- 25% (for the entire contract period)
- The pay-back period of the implied measures was 8- 10 years**
- The Baseline – Energy data basis was often insufficient
- The projects are own financed by the client (municipality)

Next generation of ESCO projects

- Increasing volume; 6 - 20 MEUR
- Have developed to become holistic (including issues like building envelope, indoor climate and expanding to other areas like public lighting)
- The guaranteed energy savings from the ESCO-supplier has increased to 20-30%
- The pay-back period of the implied measures has increased to 15- 20 years**
- The Baseline – Energy data basis has improved
- The projects are own financed by the client (municipality)

Thank you for attention !

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