

# Interview with persons in the EPC-market

## NORWAY

### General information

Item	
Organisation name	Kongsberg Municipality
Organisation type	Municipality, EPC client
Date of interview	February 2014
Name of interviewed person	<i>Tom Friberg, Hallvard Benum</i>
Function of interviewed person	Energy Engineer, ESCO / Responsible for operations and maintenance in Kongsberg municipality

Potential project	
Facility (project title)	Energy Efficiency in Kongsberg Municipality
City, Region (site)	Kongsberg municipality, Buskerud county, Norway
Type of customer	<ul style="list-style-type: none"> <li>• Municipality</li> </ul>
Sector	<ul style="list-style-type: none"> <li>• Schools</li> <li>• Nursing homes</li> <li>• Kindergartens</li> <li>• Office buildings</li> <li>• Sports arenas</li> </ul>
Goals of the project <i>(e.g. comprehensive reconstruction of the energy system during six months by implementing measures saving heat, electricity and water)</i>	Reconstruction of energy systems in buildings, and saving costs by building refurbishments
Number of buildings of each type <i>(e.g. 25 schools, 11 healthcare facilities, etc.)</i>	<ul style="list-style-type: none"> <li>• 13 schools</li> <li>• 6 nursing homes</li> <li>• 5 kindergartens</li> <li>• 3 sport arenas</li> <li>• 5 office buildings</li> </ul>

## Interview

Question	Answer
What was the impulse to start thinking about realising an EPC project?	Potential energy savings and need for upgrading building standard.
What would be the main reasons for your organisation for choosing an EPC project? <i>(remove not-valid answers and put remaining answers in order of decreasing importance)</i>	<ul style="list-style-type: none"> <li>• Energy <u>cost saving</u></li> <li>• Upgrade technical installations</li> <li>• The possibility for <u>pre-financing energy saving measures</u> of buildings</li> <li>• CO<sub>2</sub> reduction/<u>environmental advantages</u></li> <li>• <u>Less administrative/juridical work</u> as an EPC-project has to be tendered only one (while separate energy saving measures would require multiple tenders)</li> </ul>
What are in your opinion the main barriers the realisation of an EPC-project in your organisation? <i>(remove not-valid answers and put remaining answers in order of decreasing importance)</i>	<ul style="list-style-type: none"> <li>• <u>Complicated tendering procedure</u></li> </ul>
What is the expected size of the first EPC project in your organisation?	Number of selected buildings in the pool: 32 buildings Energy cost of the pool: Appx 2,1 mill euro/year Potential investment volume: 5 mill euro Potential savings: 36 %
Other comments	

## Other information on the project

To fill in only available information

Timing of the project		From	Till
Project identification		2011	2012
Procurement procedure		2012	2012
Installation of energy efficiency measures		2012	2014
Contract duration (guarantee duration)		2014	2024
Period of repayment <i>(if the same, do not fill in)</i>			
Contract duration [years]		10 years	
Project specifications			
Measures <i>(short description – max. 5 points)</i>		Totally 200 measures in 23 buildings <ul style="list-style-type: none"> <li>• Lighting</li> <li>• Heat pumps</li> <li>• Insulation</li> <li>• Ventilation</li> </ul>	
Total investment [EUR]		5 mill EUR	
Co-financing of customer		Own financing by EPC client/municipality	
Initial energy consumption before the project (baseline)	Heat	[kWh/GJ]	6.900.000 kWh
	Cooling	[kWh/GJ]	
	Natural gas	[kWh]	
	Electricity	[kWh]	11.240.000 kWh
	Hot water	[kWh/GJ]	
	Water	[m3]	
Total energy consumption costs before the project		[EUR]	2,1 mill EUR
Savings		Guaranteed	Achieved
Total savings		[%]	36 %
Heat and electricity		[kWh/GJ]	6.500.000 kWh
Cooling		[kWh/GJ]	
Natural gas		[kWh]	
Hot water		[kWh/GJ]	
Water		[m3]	
Decrease of other operational costs <i>(wages, maintenance, etc.)</i>		[EUR]	
Total guaranteed savings		[EUR]	
If there are other important aspects of the project,			



innovations and client's advantages, not mentioned above, please, describe here

*(e.g. other type of cost saved, different form of financing such as leasing, exceptionalitv of the project, direct link to another energy efficiency project such as building insulation)*