

<b>LEED - EAc5 - Measurement and Verification</b>																			
<b>Requirement</b>	<b>Information provided by the DES company</b>																		
Information about the measured amount of energy delivered to the building from the DES has to be given to the LEED seeking project	1) Heat delivered [MWh/year]																		
	<b>Fylls i av kund</b> <b>Lev. Fjärrvärme: MWh</b> <b>Lev Fjärrkyla: MWh</b>																		
Amount (in energy terms) and type of fuel used for heat production in heat only boilers (HOB).	Fuel in (all fuels) [MWh/year]																		
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Amount (in energy terms) and type of fuel used in each combined heat and power (CHP) plant in the DES.	Fuel in (all fuels) [MWh/year]																		
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Specific primary energy factors, PEF, for fuels that the DES-company uses compared to those suggested in Swedish DES-guide, table 5 in Appendix A. If the PEF differs an explanation why is needed.	PEF <sub>HOB(i)</sub> and PEF <sub>CHP(i)</sub> (specific fuels) [kWh <sub>p</sub> /kWh <sub>fuel</sub> ]																		
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Total amount of produced heat in the specific combined heat and power plant.	1) Heat produced [MWh/year]																					
	4 337 115 MWh																					
Total amount of produced electricity, without deduction of auxiliary electricity, in the specific combined heat and power plant.	1) Electricity produced [MWh/year]																					
	825 760 MWh																					
The total delivered district heating to all customers in the district heating network.	1) Heat delivered [MWh/year]																					
	Total heating delivered in heating network: 7 240 931 MWh																					
<b>For district cooling additional information is needed. That is;</b>																						
The amount of electricity used to produce the cooling (including both the auxiliary electricity for circulation of the cold water in the DES and the electric energy needed for the heat pumps).	1) Auxiliary electricity [MWh/year ]																					
	Pumpel 19 570 MWh																					
	2) Electricity used in combined heat pumps [MWh/year]																					
	Combined heat pumps and refrigerating machines: 32 970 MWh																					
Produced heat and cooling in heat pumps	1) Total produced Heat [MWh/year]																					
	1 728 273 MWh																					

	2) Total produced cooling [MWh/year]
	<p>329 795 MWh</p> <p>(Incl. Combined heat pumps, Free cooling, Cooling machines Waste cooling)</p>
The amount of heat energy used to produce cooling in absorption chillers. In best case monthly amounts are used and summarized for one year.	1) Heat month, Jan - Dec [MWh/month]
	<i>Fortum does not have any absorption chillers in its network.</i>
	2) Monthly Production Scheme [Fuel type, MWh, production type]
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