Customer and			
Regulatory			
Requirement	System Requirement	Verification Method	Verification Criteria
	5.4.3.1		Make sure supplier guarantees a MTTF > 1 year
	5.3.3.1	Contact supplier	Make sure supplier guarantees a MTTF > 5 years
1.2	5.2.3.1		Make sure supplier guarantees a MTTF > 1 year
	4.5.4	Coloniate the action of only anothers	Mariford Andrew Charles
	4.5.1	Calculate the price of sub-systems	Verify that total price will be lower than or equal to 8MNOK Verify that the annual cost will be lower than or equal to
	5.1.5.1	Contact supplier	30kNOK
	5.1.5.1	contact supplier	SONTON
	5.1.5.2	Calculate the price of sub-systems	Verify that total price will be lower than or equal to 50kNOK
	5.2.5.1	Contact supplier	Verify that total price will be lower than or equal to 3MNOK
	5.3.5.1	Contact supplier	Verify that total price will be lower than or equal to 1.8MNOK
	l		
	5.3.5.2	Contact supplier	Verify that total price will be lower than or equal to 1.3MNOK
	F 2 F 2	Coloulate the price of sub-systems	Varify that total price will be lower than an equal to 2 200000
	5.3.5.3	Calculate the price of sub-systems	Verify that total price will be lower than or equal to 3.3MNOK
	5.4.5.1	Contact supplier	Verify that total price will be lower than or equal to 1.4MNOK
	5.4.5.1	отпаст заррнет	1.5.1.7 state total price will be lower trial of equal to 1.4101100K
	6.1.5.1	Contact supplier	Verify that total price will be lower than or equal to 50kNOK
		Connect a microcontroller to heatpump with RS-485 cable, and	
	5.4.2.1	send data instructions	The heatpump shall turn on and off according to instructions
		Connect a microcontroller to heatpump with RS-485 cable, and	
	5.4.2.2	read metadata	Verify that the heatpump sends metadata over the cable.
	5.4.4.1	Turn on heatpump and measure rated heat output	The rated heat output shall be larger than 67 kW
	5.4.4.2	Turn on heatpump and measure rated heat removal output	The rated heat removal output shall be larger than 20kW
	5.4.4.3	Measure heat energy ratio when -7 °C outside	Verify that ratio is larger than 1:3.1
	5.4.4.4	Measure heat energy ratio when 2 °C outside	Verify that ratio is larger than 1:3.6
	5.4.4.5	Measure heat energy ratio when 7 °C outside	Verify that ratio is larger than 1:4
	5.4.4.6	Measure heat energy ratio when 12 degrees C outside	Verify that ratio is larger than 1:4.3
		Measure cooling energy rato when outdoor temperature is -7 °C	
		Weasure cooling energy rato when outdoor temperature is -7 C	Verify that ratio is larger than 1:4
	5.4.4.7	Measure cooling energy rato when outdoor temperature is 12 °C	
	5.4.4.8	Turn on heathump in -10C and measure the rated heat output	The rated heat output shall be larger than 67 kW
	6.1.2.6	р	
	6.1.2.7		Verify temperature in apartement and rooms matches the signal sent Verify that the components can be repaired within the set timelimit
	6.1.2.8		
	6.1.2.9		
1.4	5.2.3.2	Fabricate faults and have maintenance search and repair the faults Werify that the components can be repaired wit timelimit	
	5.3.3.2		
	5.4.3.2		
	6.1.3.4		
	6.2.3.4		
	6.3.3.4		
	6.4.3.4 6.5.3.2		
	6.6.3.3		
	6.7.3.3		
2.7			
	6.6.2.5	Do penetration-testing on the server hosting the user interface	
	6.7.2.5	Do penetration-testing on the server hosting the Dev. tools	
1.5	6.1.2.20	Do penetration-testing on the server hosting the MCU	Make sure the penetration does not succeed
	4.4.1		Make sure we achieve 60% self-sustainability
			Make sure we dont throw away more than 1% of the energy
1.6	4.4.2	Simulate energy need and energy production over a year	produced
		Simulate giving the software more than 100kWh energy for selling,	Confirm the decisions made by the control system does not
	5.1.3.1	and record the decisions made	break the Norwegian regulations
1.7	6.3.1.2	Feed database with dummy data	Make sure all data are anonymized
	5122	Simulate 24 hours of system running with dummy production,	Confirm in the log that 80% of total power sales was during said power price peak window
	5.1.3.2	consumption, storage and price data. Store the results in a log	Confirm in the log that 80% of total power purchases was during
	5.1.3.3		said cheapest power price window
	6.5.4.1	Feed the ML software dummy weather data and dummy power	
1.8	6.5.4.2	price data	Verify the predictions are within set error margins
		Gather a test group of different people with varying fields of	was a land of the second
		interests and age. And let them use the website/app to see how	Verify the slowest people in the test group can meet the
1.9	6.6.3.1	fast they learn how to use it.	required MTTL
2.1			
2.2			