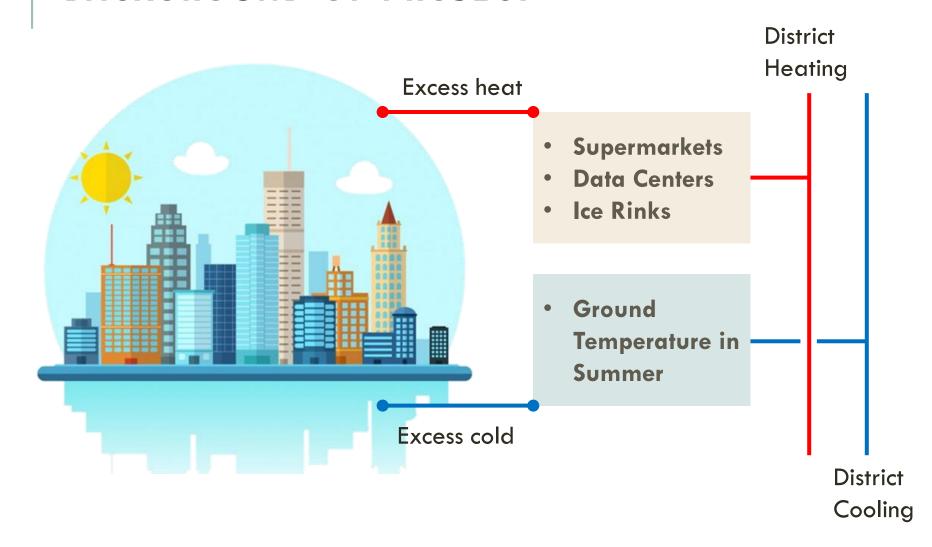


BUILDINGS' WASTE ENERGY RECOVERY FOR DISTRICT HEATING & COOLING NETWORKS

MJ 1432 Practical Energy Related Project

Lugas Raka Adrianto February - May 2017

BACKGROUND OF PROJECT



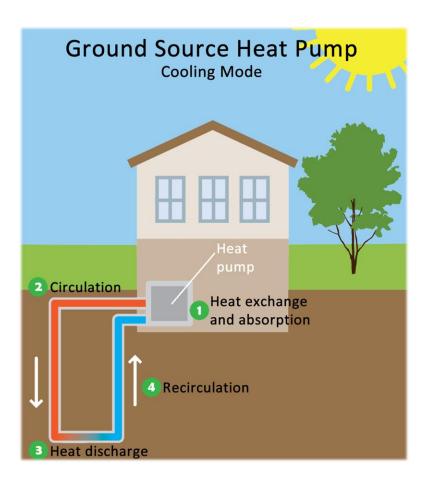
POTENTIAL AREAS OF INVESTIGATION



3400 supermarkets



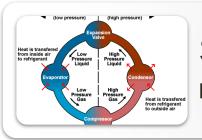
350 ice rinks



OBJECTIVES



Estimate the potential of heat and cold recovery from buildings in Sweden



Suggest modification to existing system if new system to be applied



Conduct techno-economic analysis to determine the right price for selling heat/cold

METHODOLOGY

Literature study



Select Application Areas



Define Scope of Energy System



Modify System for Heat/ Cold Recovery



Build Existing Model



Choose proper method of calculation/simulation



Evaluate the energy recovery from the system



Estimate the selling price of heat/cold to district networks

DELIVERABLES

The expected outcomes from the project are:

- Bi weekly progress report (if required)
- Intermediate report
- Presentation (slide/ poster)
- 4. Final report

WORKPLAN OF PROJECT

Within approximately **16 months**, the activities are divided below.

Planned Activity	January				February				March				April				May			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Seminar 1																				
Literature review																				
Energy recovery potential																				
Data gathering																				
Build and simulate model																				
Intermediate report																				
System modification																				
Economic analysis																				
Further analysis																				
Finalization (Report/ Presenting)																				