

Appendix Three

On the attached location map of North Seaton the red lines show the existing and committed district heating network linked to the Seaton CHP station. The blue lines show the proposed new links to **Livingstone Court** private sheltered housing and the planned **50meter swimming pool**.

Livingstone Court

- Consists of 39 flats in a private sheltered housing development.
- Currently has electric storage heating
- Capital costs of extension of district heating network = **£80,000**

ELECTRICITY SAVING	MWh/annum	CO2 Emission Kg/MWh	CO2 Tonnes/annum
Electricity displaced for electrically heated dwellings	401	672	269
Electricity produced from CHP generators	233	672	157
NATURAL GAS USED	MWh/annum	CO2 Emission Kg/MWh	CO2 Tonnes/annum
Natural Gas to CHP Generators and Boilers	902	191	172
		Annual CO2 emission reduction Tonnes/annum	254

Planned new build 50 meter swimming pool

- Being planned for development by Aberdeen Sports Village – a not-for-profit company formed through a partnership between the Council and Aberdeen University
- Capital cost of extension of district heating network = **£120,000**

The preferred energy solution for Aberdeen 50m Pool to achieve reduction in carbon emissions over an above those required for Building Regulation comprise the following, if the additional capital costs can be found:

	Before	After	Individual	Cumulative
Provision of Ventilation Heat Recovery	176.90	162.40	9.35%	9.35%
District Heating via Gas Fired CHP	162.40	142.70	12.71%	22.06%