

2.5

### Specific Local Objective

It is an objective of the Council to further examine and exploit the deep geothermal heat resources available and accessible at Newcastle and in this context the Council supports the pilot project described below on lands outlined on the attached map to further test and demonstrate the deep geothermal heat resources of the County which have already been identified at this location.

The Pilot Project will include the following:-

#### Phase One.

- Further seismic testing and mapping of the relevant geological structures at Newcastle and around the County.
- Further deep drill testing to quantify the potential of the resource.

#### Phase Two.

*Note:- Phase Two can only proceed after a successful outcome to phase one.*

- Demonstrate the use of the resource in a real situation including district heating in a new energy self sufficient residential community adjacent to Newcastle on the pilot project lands outlined on the attached map.
- Connect existing residential and commercial users to this district heating network.
- Build a back up/peaking biomass plant most likely fuelled by wood chip.
- Connect residual heat to the network where possible.

Phase Two is subject to the following provisions;

No development whatsoever can take place within the specific local objective boundaries outlined on the attached map until the geothermal resource has been proven and demonstrated to the satisfaction of the Council.

No development can take place on the pilot project lands until an overall masterplan for the development has been prepared and agreed with the elected members of the Council.

The agreed masterplan will include a requirement that any planning application for development in the pilot project lands must make provision for the early phased delivery of educational and community facilities for the Newcastle Village area where the existing facilities at the time of such planning applications fails to meet the relevant required level as laid down in the agreed plan.

Shirine Ridge 13/04/2010



