

## Oban and Lorne Community Enterprise Company (OLCEC)

### Invitation to Tender

#### Proposed Biomass Heating System at Atlantis Leisure Centre: Design and Build



Located in Oban, North Argyll, Atlantis Leisure Centre is an extremely well used and popular facility. The amenities in the centre include a four lane 25 meter swimming pool, a trainer pool, changing village, pool spectator area, sauna, gym, café, squash courts, six court sports hall, 5 tennis courts ( 2 hard courts 3 Astro turf), climbing wall, meeting rooms, therapy rooms, a 5 a side pitch, community play park and a soft play centre.

Due to increasing fuel costs and an aspiration to be more sustainable, OLCEC have been investigating possible energy efficiency upgrades that could be made and the renewable energy options.

Currently the main sources of energy used are electricity, gas oil, gas and water. Previous studies have been carried out on the leisure centre: Energy Appraisal and Biomass Feasibility (specification of this attached). The Directors and management of the facility have decided that they would now like to install a wood fuel system.

Previous feasibility work identified the following specification:

300kW rated boiler; a thermal storage buffer vessel with a storage capacity of 12,000 litres (definitely no less than 10,000 litres); storage silo with a storage volume of 160m<sup>3</sup>

In relation to the accompanying specification, the following are changes which will affect design:

- Containerised systems should be considered.
- It should be noted that the preferred fuel delivery system is **reverse & tip**. Any proposed design should take this into consideration.
- The project no longer includes solar thermal panels.
- Ability to use high moisture content chips (>40%)
- Consideration must be given to the use of the existing flues for the dispersal of exhaust emissions
- Boilers with dual fuel capability (chips/pellets) should be considered.
- Both installer and technology should be MCS accredited.

Parties are invited to submit a project plan providing an outline design approach and budget costs for the capital stage of the project.

The overall response should broadly aim to include:

- Design methodologies
- Outline design proposal
- Outline specification and cost of equipment
- Outline of boiler accommodation and storage (It should be noted that the preferred fuel delivery system is **reverse & tip**. Any proposed design should reflect this.)
- Maintenance requirements
- Company profile and CV
- Evidence of successful track record
- Total budget costs
- Viability statement on energy supply to the site
- Proposed **timeline** for both design and build

*An additional element of this project is the air handling system in the centre – appointed consultant should assess whether the continued use of the ventilation system in the reception and cafe area is required*

This project will be grant funded so design and capital costs must be accurate. The budget costs should also provide estimated, but realistic running costs, for the proposed system.

It should be noted that the boiler accommodation will have to be annexed to the centre; therefore a site visit is necessary.

The design information should be sufficiently advanced to enable a detail planning application to be prepared and submitted by OLCEC with sufficient detail on plant and environmental emissions and flue configuration to satisfy Planning and Environmental Health requirements. Environmental Health requirements can be made available from previous consultations undertaken on behalf of Atlantis.

The successful tender is expected to maintain close liaison with OLCEC.

All responses should be submitted by 31<sup>st</sup> August 2010. The contact for this project is:

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