RYBKA

EDINBURGH GLASGOW INVERNESS LONDON

The Bught Park

Project overview

Our project was to develop a new build ‘Home of Shinty’, which houses a museum space, currently undergoing fit-out by the Camanachd Association and Lateral North.

Funded through the Levelling Up Fund from the UK Government, the project was part of a wider scheme from the Highland Council known as ‘Inverness Zero Carbon Cultural Regeneration’. The Bught Park is a large sports field area comprising multiple football pitches and the main shinty pitch in front of the grandstand.

On the first floor there is a large function suite that overlooks the pitch. There is office accommodation used by sportscotland and the existing grandstand has been refurbished with a large changing village built onto the rear, serving the shinty pitch and the array of football pitches. The changing block has five pairs of changing rooms.

Rybka provided full mechanical and electrical engineering design, modelled by our digital construction team in REVIT and supported by the Rybka-S team, providing overheating analysis and operational energy analysis, with simplified building energy model (SBEM) and energy performance certificate (EPC) upon completion.

Local Authority: The Highland Council

Architect: The Highland Council

Value: £8M

Timescale: 18-month design phase, 20-month site work

At a glance

- **Funded through the UK Government’s Levelling Up Fund**
- **On site renewable electricity generation**
- **Low operational emissions**

Energy efficient

Solar

Innovation

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Project delivery

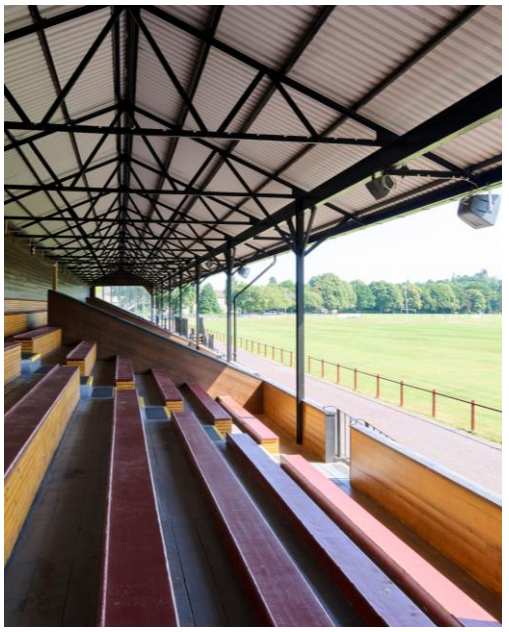
The project was originally planned for ground source heat pump (GSHP), however, trial borehole results were not satisfactory and the whole scheme had to adapt to an air source solution.

The Home of Shinty building uses hybrid variable refrigerant flow (HVRF) air conditioning system to provide heating and cooling with a very low refrigerant volume. Natural refrigerant (R290/propane) air source heat pumps provide heating to the grandstand building changing areas via an underfloor heating system.

Hot water is provided to each building from the high temperature, high efficiency natural refrigerant (R744/CO_2) air source heat pumps. The changing areas also have a waste water heat recovery system built into the shower drains to reduce the demand on hot water generation.

The buildings have good fabric performance and air tightness and are ventilated via mechanical ventilation heat recovery systems. This includes the kitchen, which included high levels of filtration in the kitchen extract air to work with the high efficiency heat recovery.

In addition to zero direct emission systems and energy efficient solutions, each building has a large roof mounted solar PV system, providing on site renewable electricity generation which significantly reduces the demand on for grid electricity. This has therefore resulted in very low operational emissions.



Result

The project was successfully delivered and was handed over in time for the showpiece Camanachd Cup Final on 20 September 2025.