



Heat pump continues to deliver roarr-some savings for Dinomite

Dinomite - Norfolk's largest indoor play area - is benefitting from cost and energy savings thanks to a heat pump installed by Finn Geotherm.

Located at Roarr! Dinosaur Adventure Park in Lenwade, Dinomite is an indoor children's play area split across three levels with slides, bridges and ball pools. The facility also includes a 200+ seat café and guest services for the entire park. Heating in Dinomite was previously provided by two LPG boilers. With Roarr! Dinosaur Adventure open 363 days a year, keeping the building warm was proving extremely costly.

Adam Goymour, Park Manager at Dinosaur Adventure, said: "As well as housing our indoor play area, the building is also the main hub for the park so it's essential to keep it at a comfortable temperature for all our visitors and staff. The existing LPG boilers were overstretched and we wanted a solution which would also save us both money and energy. We're continually reviewing our operations across all areas of the business to reduce our environmental impact so it was important for us to choose a heating system which was in line with this."

Finn Geotherm specified and installed a Lämpöässä T120 ground source heat pump with 2000 litre superheat thermal store to provide all the building's heating and hot water. The system was linked to 6km of horizontal collector loop, installed in the main car park. A combination of Jaga LST radiators and roof mounted warm air heaters circulate the heat around the building.

The cost of heating in Dinomite is now less than half what it was with LPG and the building remains at a constant, warm temperature all year round – even when the outside temperature is below freezing. Emissions have also been halved and energy consumption significantly reduced.

Adam Goymour sums up: "We have been more than impressed with our ground source heat pump at Dinomite. The installation was completed in January 2013 and, five years on, it continues to provide the perfect heating it has delivered for us from day one. The system is very low maintenance and has made a considerable impact on both our costs and energy use."

Since installing this system, Finn Geotherm has also completed further heat pump projects for Martin Goymour, Managing Director at Roarr! Dinosaur Adventure and CEO of Zoological Society of East Anglia, with two at Banham Zoo and one at his own home.

Key benefits:

- Heating costs have been halved
- Entire building is warm throughout all year round
- Highly energy efficient system
- Carbon emissions cut by 50%
- Qualifies for commercial RHI



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