

# CASE STUDY



**NAME:** CHARLES HURST, FERRARI. BELFAST

**APPLICATION:** BIO-MASS BOILERS & ABSORPTION CHILLER

## Proposal

To provide heating & cooling for Ferrari & Maserati franchise. The showroom was formerly the Charles Hurst head office which was redeveloped to compliment the high end retail sales of the exclusive vehicles. The head office had previously been heated by natural gas however clients initial proposal expressed to install a VRV/VRF system. When we were approached for air conditioning, we recommended a Hot Water Fired Absorption Chiller, Yazaki (WFC-20) providing 70kW of cooling by using the heat from the Bio-Mass Boilers (99kW). The Absorption Chiller also provides cooling to the central communications room which is the IT central hub for the UK Group. This results in the Government's RHI Incentive being utilized to provide heating & cooling all year around. This is the first small scale Absorption Chiller project in Ireland and is viewed as a template by Lookers PLC for future works across the UK to assist them in Carbon Reduction.



DATE	FUEL TONNAGE	COST
11.06.13	3.00	£555.00
25.07.13	4.02	£743.70
21.08.13	4.50	£900.00
09.09.13	3.00	£555.00
26.09.13	3.50	£647.50
08.10.13	3.18	£636.00
18.10.13	1.20	£240.00
	<b>Fuel Cost</b>	<b>£4,277.20</b>
	<b>kWh</b>	<b>75,746</b>
	<b>RHI Payment</b>	<b>£4,620.51</b>
	<b>Profit</b>	<b>£343.31</b>

\*Actual Readings from Ferrari Showroom, Belfast

## BENEFITS

- ◆ No Capital Cost
- ◆ Free Heating & Cooling
- ◆ Annual savings on Energy Bills of up to £20,000
- ◆ Reduce CO2 Emissions
- ◆ Containerised Plantroom
- ◆ Low Maintenance

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