











Building Energy Performance		Scotland						
Energy Performance Certificate	Calculated asset rating using DesignBuilder v.1.6.9.003 [SBEM]	Building type Secondary school						
	Current rating							
	Excellent							
		Carbon Neutral						
		A (0 to 15)						
		B (16 to 30)						
		C (31 to 45)						
		D (46 to 60)						
	E (61 to 80)							
	F (81 to 100)							
	G (100+)							
Very Poor								
Carbon Dioxide Emissions								
The number refers to the calculated carbon dioxide emissions in terms of kg per m ² of floor area per year		53						
Approximate current energy use per m ² of floor area:		210 kWh/m²						
Main heating fuel: Natural Gas		Building Services: Heating with Nat. Vent.						
Renewable energy source:		Electricity: Grid supplied						
Carbon Dioxide is a greenhouse gas which contributes to climate change. Less Carbon Dioxide emissions from buildings helps the environment.								
Benchmarks								
A building of this type built to building regulations standards current at the date of issue of this certificate would have a rating:		43  C						
Where the accompanying recommendations for the cost effective improvement of energy performance are applied, this building would have a rating:		49  D+						
Recommendations for the cost-effective improvement (lower cost measures) of the energy performance								
<table border="0" style="width: 100%;"> <tr> <td style="width: 50%;">1. Consider installing building mounted wind turbine(s).</td> <td style="width: 50%;">4. Install more efficient water heater.</td> </tr> <tr> <td>2. Consider installing solar water heating.</td> <td>5. Consider replacing T8 lamps with retrofit T5 conversion kit.</td> </tr> <tr> <td>3. Consider installing PV.</td> <td>6. Consider replacing HWS with point of use system.</td> </tr> </table>			1. Consider installing building mounted wind turbine(s).	4. Install more efficient water heater.	2. Consider installing solar water heating.	5. Consider replacing T8 lamps with retrofit T5 conversion kit.	3. Consider installing PV.	6. Consider replacing HWS with point of use system.
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Address: St Machar Academy, Aberdeen
Conditioned area (m²): 12283
Name of protocol organisation: CIBSE Certification Limited, [RICS 184761]
Date of issue of certificate: 31 Oct 2008 (Valid for a period not exceeding 10 years)

This certificate is a requirement of EU Directive 2002/91/EC on the energy performance of buildings.

NB THIS CERTIFICATE MUST BE AFFIXED TO THE BUILDING AND NOT REMOVED UNLESS REPLACED WITH AN UPDATED VERSION AND FOR PUBLIC BUILDINGS DISPLAYED IN A PROMINENT PLACE