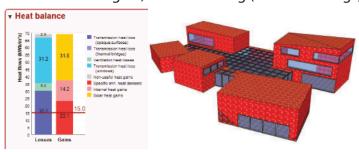
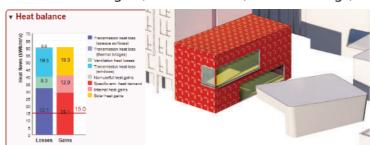
Iteration 1 - Design 1, entire building (default settings)



Iteration 3 - Design 2, office block 2 (default settings)



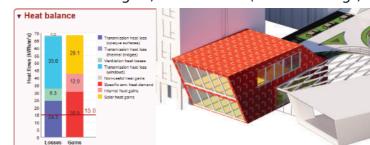
Iteration 2 - Design 1, office block 1 (default settings)



Iteration 4 - Design 3, office block 1 (custom settings)



Iteration 3 - Design 2, office block 1 (default settings)



Iteration 4 - Design 3, office block 2 (custom settings)

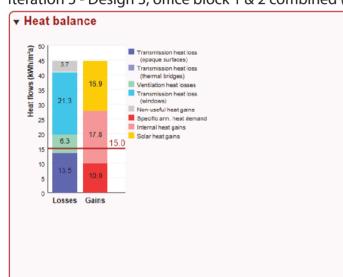


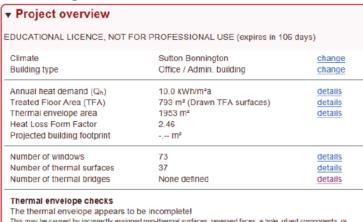


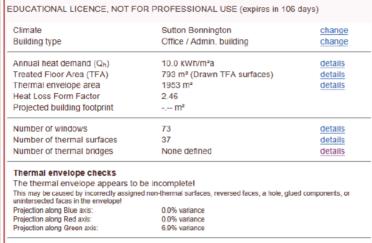
in partnership with

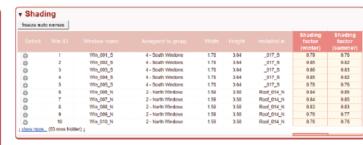


Iteration 5 - Design 3, office block 1 & 2 combined (custom settings)

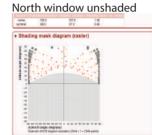


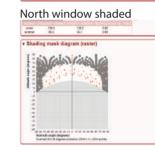














THE ICE CUBES

COVENTRY UNIVERSITY







▼ Transmission heat loss (opaque surfaces)							
	Total area (m²)	Area weighted U-value (W/m²K)	Av. temp. factor	Ann. htg. degree hours (kKh/a)	Transmission heat losses (KWh/a)	Q_t (kWh/m²a	
7 - External Door	0.00			69.00			
8 - External Wall - Ambient	608.48	0.11	1.00	69.00	4492.39	5.66	
9 - External Wall - Ground	0.00			59.00			
10 - Roof/Ceiling - Ambient	507.29	0.11	1.00	59.00	4483.63	5.65	
11 - Floor slab / Basement ceiling	390.75	0.11	0.60	69.00	1730.92	2.18	
12 -	0.00			69.00			
13-	0.00			69.00			
14 - Temperature zone X	0.00			69.00			
18 - Partition Wall to Neighbour	129.33	0.25	0.00	69.00	0.00	0.00	
	1735.85				10706.94	13.50	

Overview Results Heat balance Climate Vent.+IHG Areas U-value

▼ Transmission heat loss (windows)

5 - West Windows 6 - Horizontal Windows	0.00				69.00 69.00		
	360.46					16861.34	21.26
• Ventilatio	n heat losses	3					
	Energy effective at change rate (1/h)		n volume n³)	Heat capacity of air	Ann. htg. degree hours (kKh/a)	Ventilation heat losses (kWfva)	Q_v (kWh/m²a)
Ventilation system	0.0456	237	9.53	0.33	59.00	2458.37	3.11
Inflitration	0.0452	237	9.53	0.33	59.00	2503.21	3.16
	0.0918					4971.57	6,27

	•						
							Q_s (kWh/m²a)
2 - North Windows	120.92	90.09	0.50	0.45	85.90	2297.78	2.90
3 - East Windows	158.45	120.68	0.50	0.48	194.00	7055.13	8.89
4 - South Windows	83.09	62.63	0.50	0.48	185.69	4074.68	5.14
5 - West Windows	0.00	0.00				0.00	0.00
6 - Horizontal Windows	0.00	0.00				0.00	0.00
	360.46	273.39				13427.59	16.93
Internal he	at maine						
	-						
							Q_I (kWh/m²a)
793.18		3.50		212.00	5.09	14124 90	47.04

