

Tables 1, 2 and 3 below display a summary of the carbon, heating/cooling demand and energy assessments respectively, while graphs 1,2 and 3 display the same.

Carbon generation assessment	
Analysis	kgCO ₂ /m ² .annum
Existing scenario	41.5
Proposed scenario	38.0
Savings	8.43%

Table 1 Carbon assessment

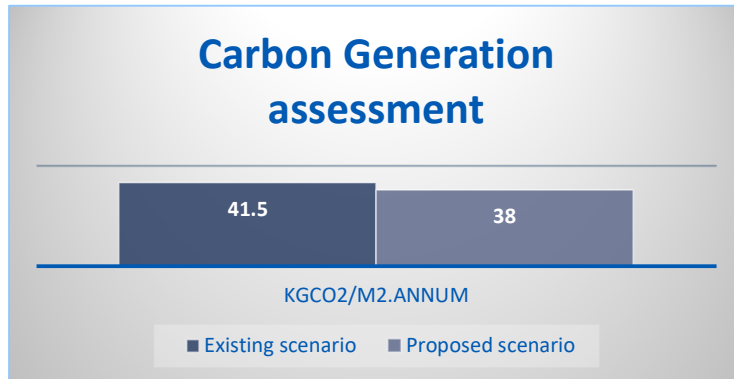


Image 1 Carbon reduction comparison

Energy assessment	
Analysis	kWh/m ²
Existing primary energy	243.23
Proposed primary energy	223.21
Savings	8.23%

Table 2 Energy assessment

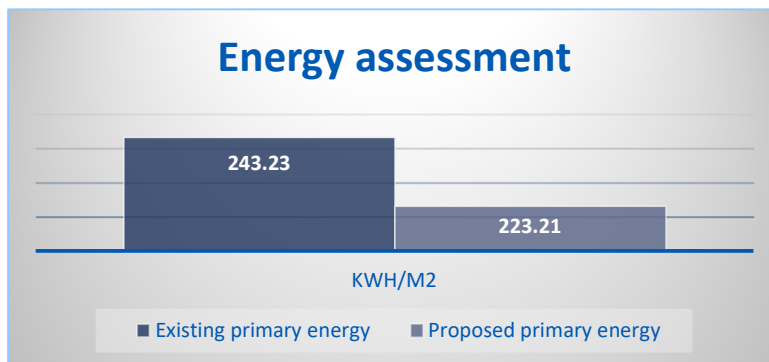


Image 2 Energy assessment comparison

Heating & Cooling demand assessment	
Analysis	MJ/m ²
Existing heating and cooling demand	305.17
Proposed heating and cooling demand	254.64
Savings	16.55%

Table 3 Heating and cooling demand assessment

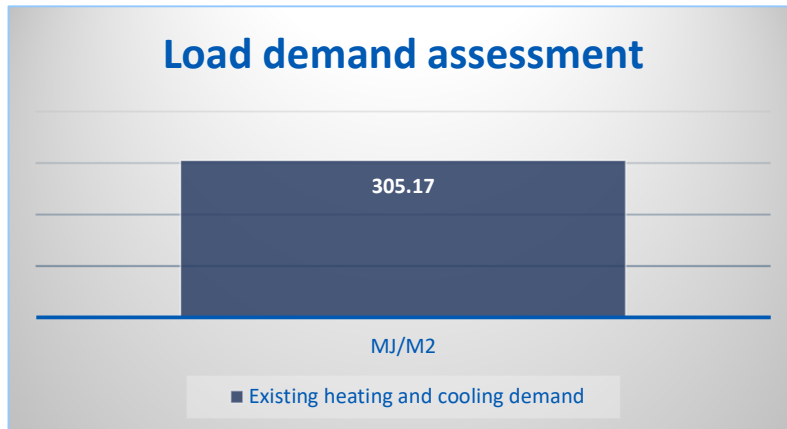


Image 3 Load demand reduction

Images 4 and 5 display the energy breakdown per end use and the carbon breakdown for the existing scenario, while images 6 and 7 display the same information for the proposed scenario.

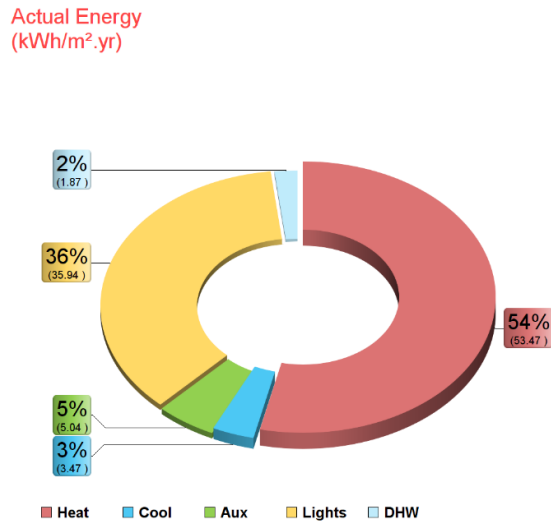


Image 4 Energy consumption breakdown / existing scenario

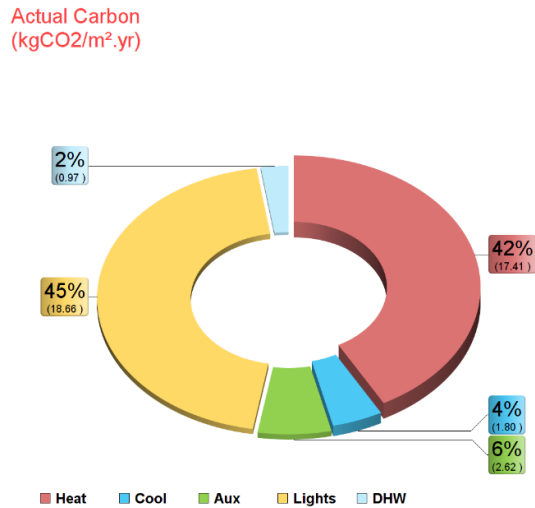


Image 5 Carbon consumption breakdown / existing scenario

Actual Energy
(kWh/m².yr)

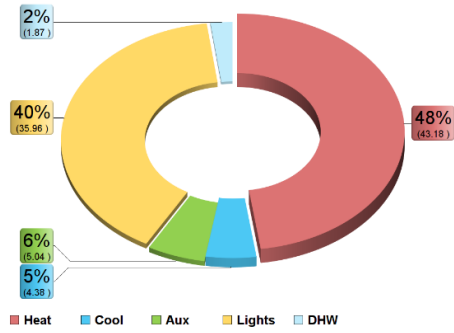


Image 6 Energy consumption breakdown / proposed scenario

Actual Carbon
(kgCO₂/m².yr)

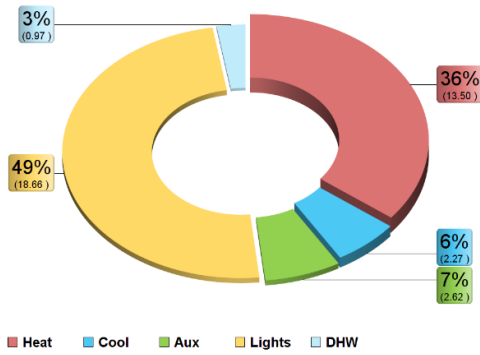


Image 7 Carbon consumption breakdown / existing scenario

