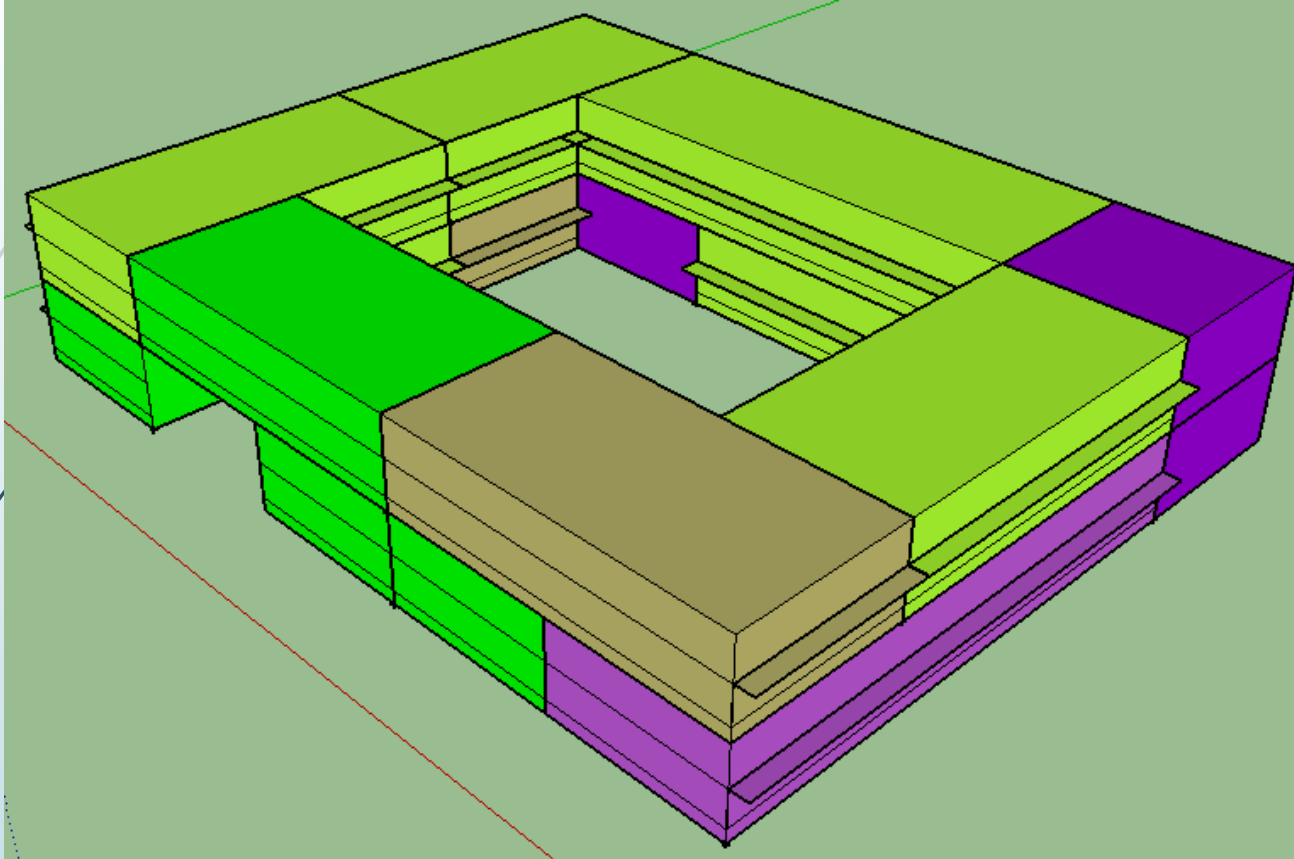




OpenStudio Project: Politecnico di Milano Building, Piacenza Campus

Nicolas Marrugo and Edouard Thouvenin

Geometry



Closed Offices



Conference room



IT room



Vending



Restroom

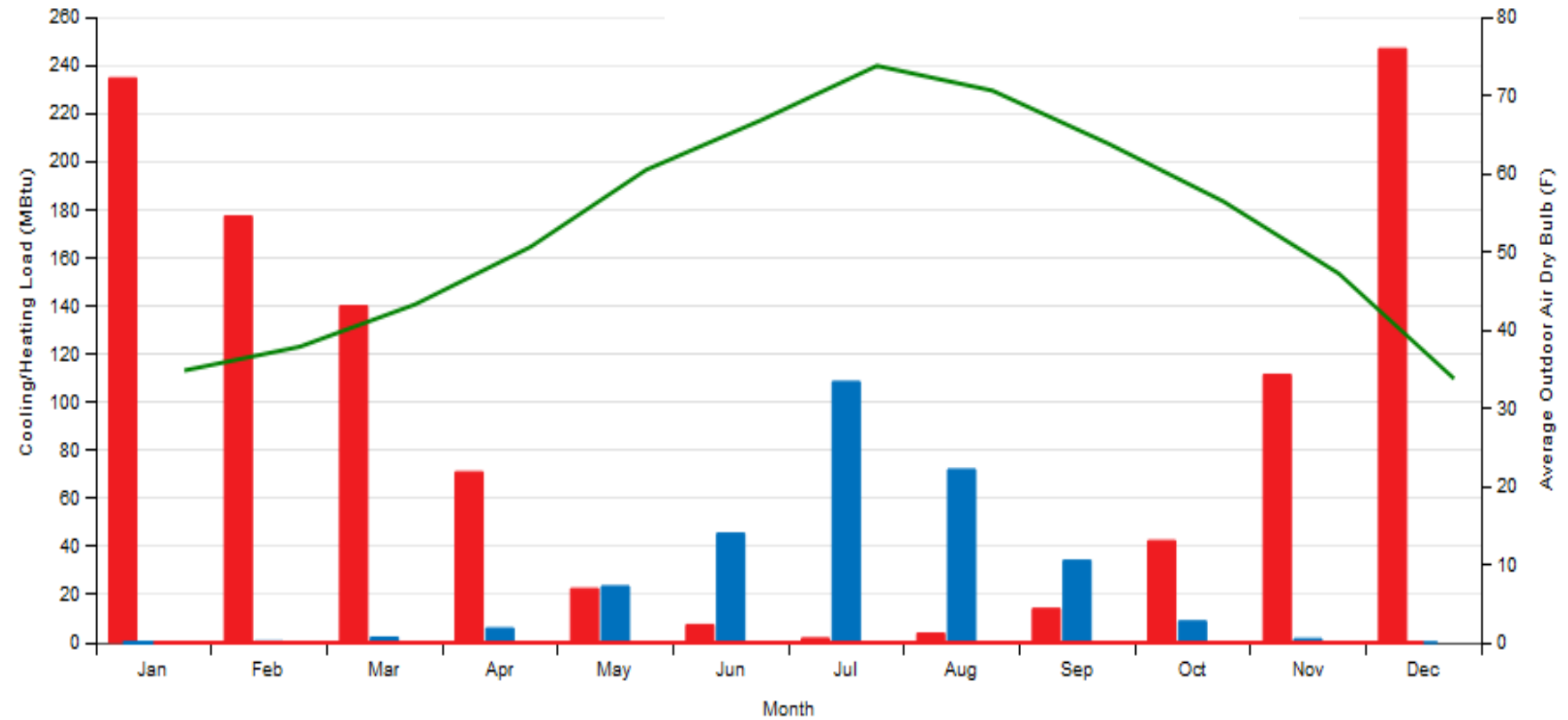
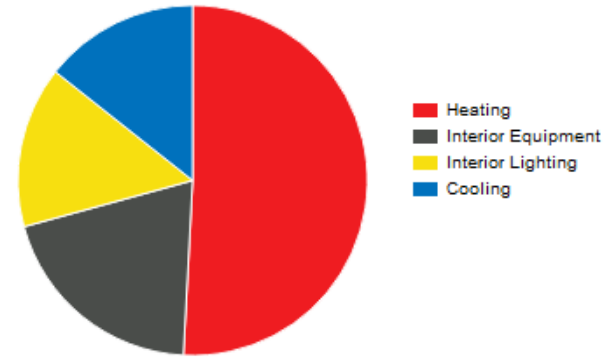


Basic Case

- Location: Piacenza
- Wall Characteristics:
 - 1IN Stucco
 - 8IN Concrete HW
 - Wall Insulation
 - 1/2IN Gypsum
- Windows Characteristics:
 - Theoretical Glass

Basic Case

End Use - view table



Parametric Study

Basic Case: 1IN Stucco / 8IN Concrete HW / Wall Insulation / 1/2IN Gypsum ;
Theoretical Glass 202 ; Piacenza

Wall 1: 1IN Stucco / 8IN Concrete HW / Wall air space / 1/2IN Gypsum

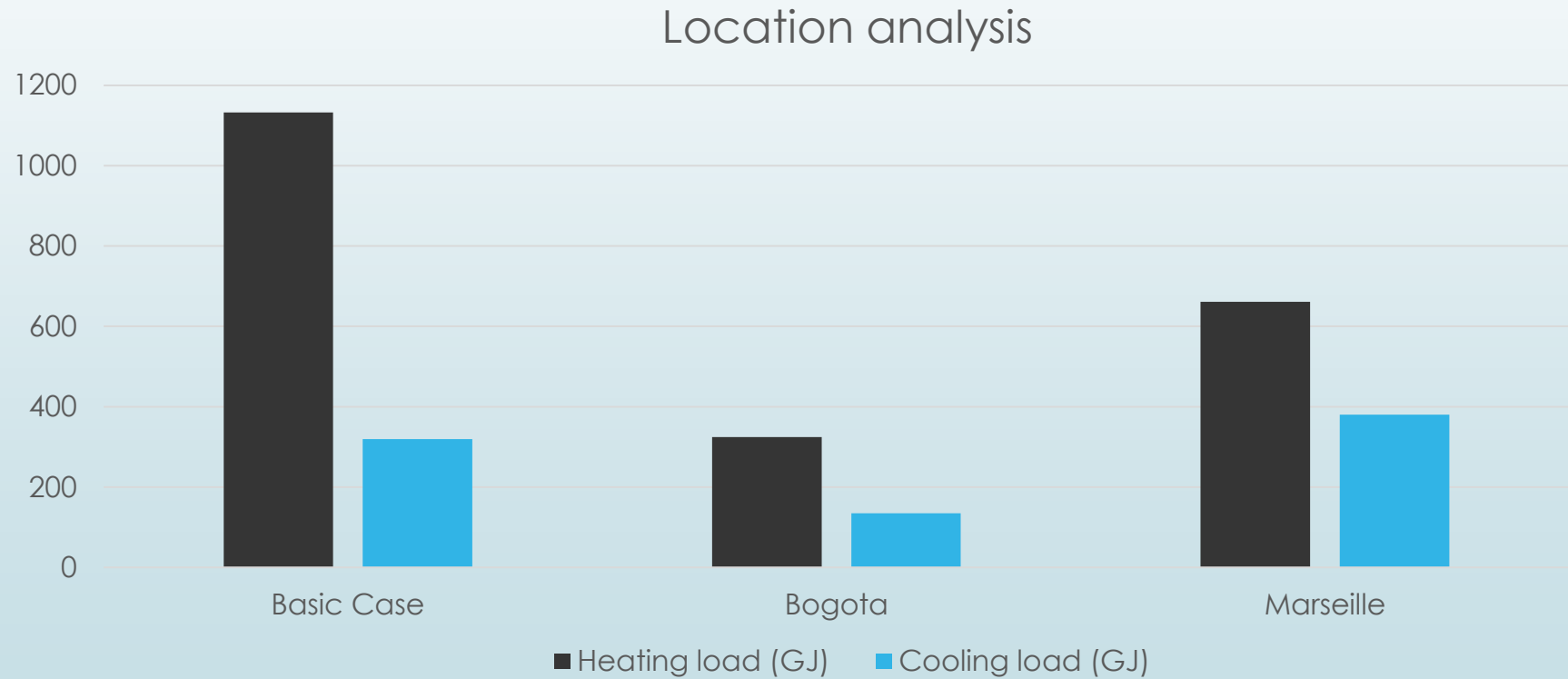
Wall 2: 1IN Stucco / G05 Wood 25 mm / Wall Insulation / 1/2IN Gypsum

Fenestration 1: Clear 3mm

| | Basic Case | Bogota | Marseille | Wall 1 | Wall 2 | Fen 1 |
|-------------------|------------|--------|-----------|---------|---------|---------|
| Heating load (GJ) | 1132.1 | 324.15 | 660.95 | 1330.47 | 1147.75 | 1225.84 |
| Cooling load (GJ) | 319.61 | 135.04 | 380.24 | 346.36 | 341.77 | 463.22 |

Parametric Study

Basic Case: 1IN Stucco / 8IN Concrete HW / Wall Insulation / 1/2IN Gypsum ;
Theoretical Glass 202



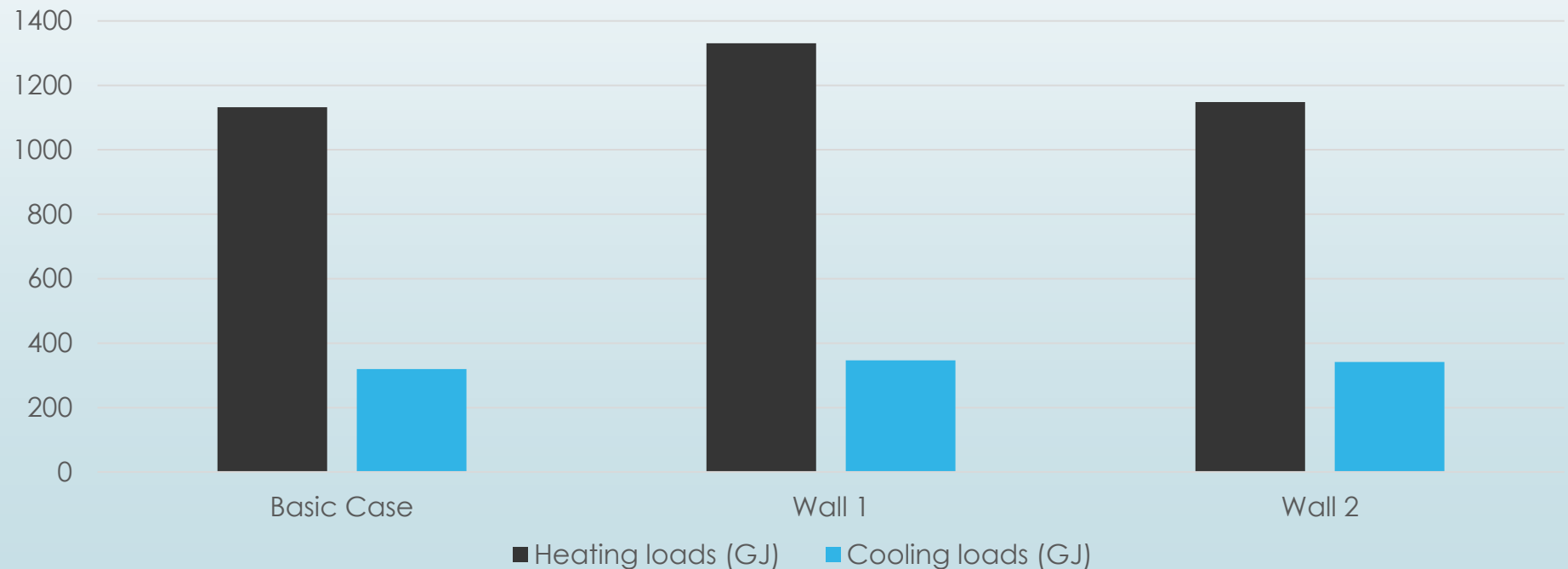
Parametric Study

Basic Case: 1IN Stucco / 8IN Concrete HW / Wall Insulation / 1/2IN Gypsum ;

Wall 1: 1IN Stucco / 8IN Concrete HW / Wall air space / 1/2IN Gypsum

Wall 2: 1IN Stucco / G05 Wood 25 mm / Wall Insulation / 1/2IN Gypsum

Wall Component analysis



Parametric Study

Basic Case: Theoretical Glass 202

Fenestration 1: Clear 3mm

