

GREEN BUILDINGS – CORRIGE

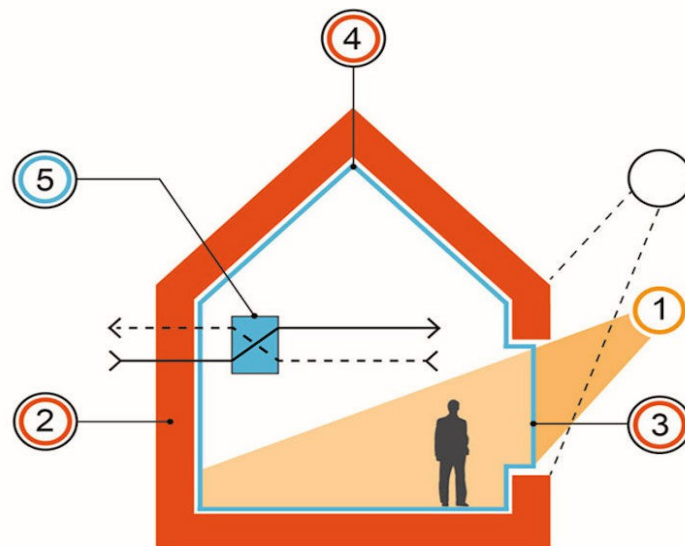
a. The 3 large-scale passive housing projects are :

- The Heights : a six-storey apartment building in Vancouver
- a residence for 750 students on Scarborough campus in Toronto
- 2 tower blocks of more than 40 storeys in Vancouver

b. The assets of a passive house compared to a traditional building

Passive houses	Tradition buildings
They are highly energy efficient : they require 90% less energy for heating and cooling and they produce lower levels of greenhouse gas emissions.	They generate 20% of greenhouse gas emissions and 47% of indirect heat and electricity emissions

c. Originilly, passive houses were homes where single families lives. Canadian projects transform the concept into something on a much larger scale (blocks of flats, residences for students...)



PASSIVE HOUSE PRINCIPLES

- ① SOLAR ORIENTATION
- ② HIGH INSULATION
- ③ HIGH PERFORMANCE WINDOWS
- ④ AIR TIGHT ENCLOSURE
- ⑤ BALANCED VENTILATION WITH HEAT RECOVERY

