



CIBSE

Australia & New Zealand

Building Services Engineering Training

INTRODUCTION TO BUILDING SERVICES ENGINEERING



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SPEAKERS:

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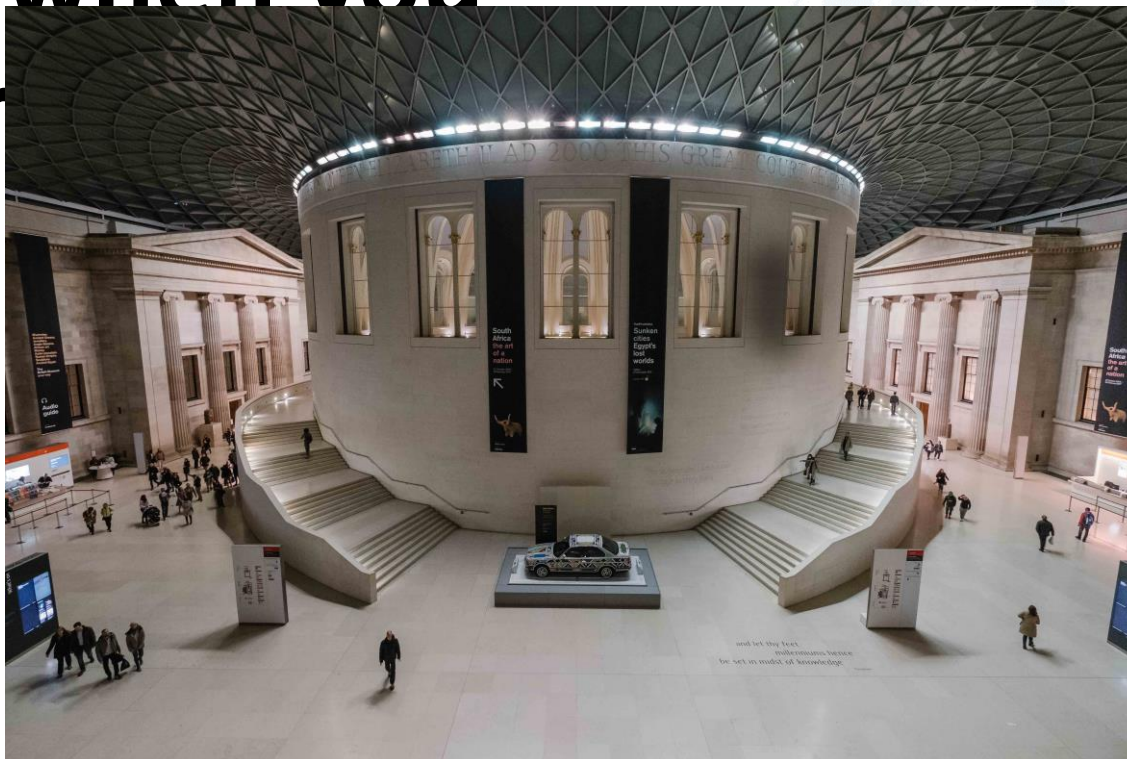
Agenda

- **Intro – what is building services**
- **Why do we need building services**
- **Factors of comfort**
- **Why should we care**
- **School subjects & university entrance**





when you



What do you understand by the term Building Services?





**List all the building services you
can think of**



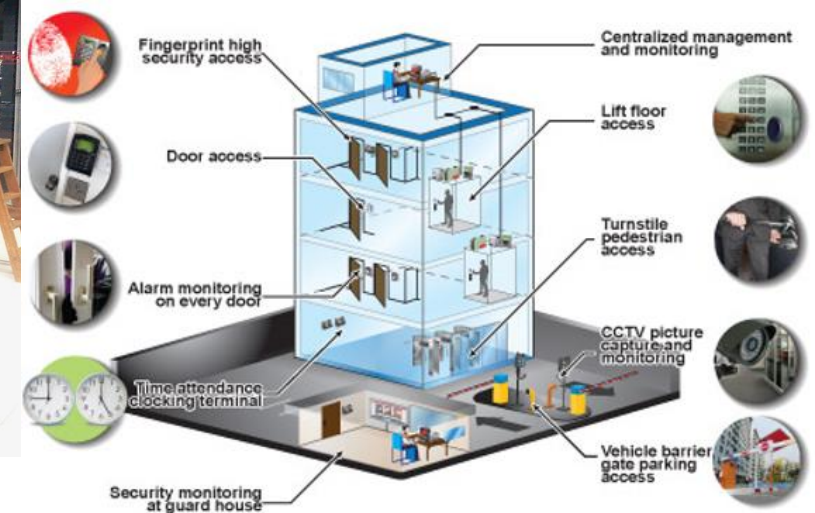
Building services are what makes a building come to life:



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Why do we need Building Services



Here are some reasons why:

- assist the building to moderate environmental conditions – **very hot and cold weather**
- can provide the ideal conditions for a range of activities and processes – **Operating theatre, museum archive store, data centre**



Here are some reasons why:

- can protect us from a range of internal and external events – **building fire, storm**
- can help keep our air and water clean and remove waste – **filtration systems**
- enable us to better function as a society



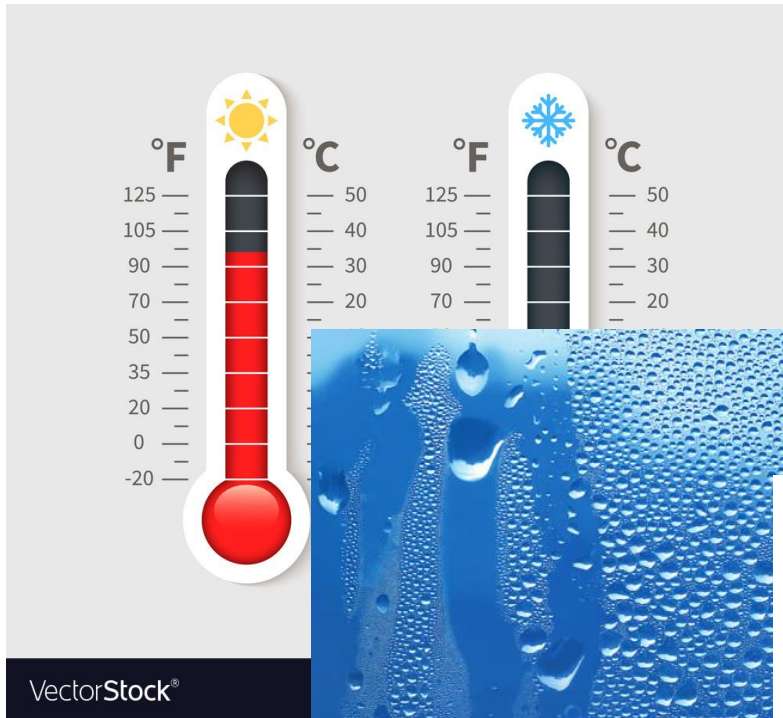
Perhaps the most common building services complaints revolves around comfort – or more accurately – around discomfort, particularly with respect to air conditioning.



What are the factors that affect our sense of comfort?



Our feeling of comfort is influenced by a number of factors



AIR MOVEMENT



Why should you care about building services?

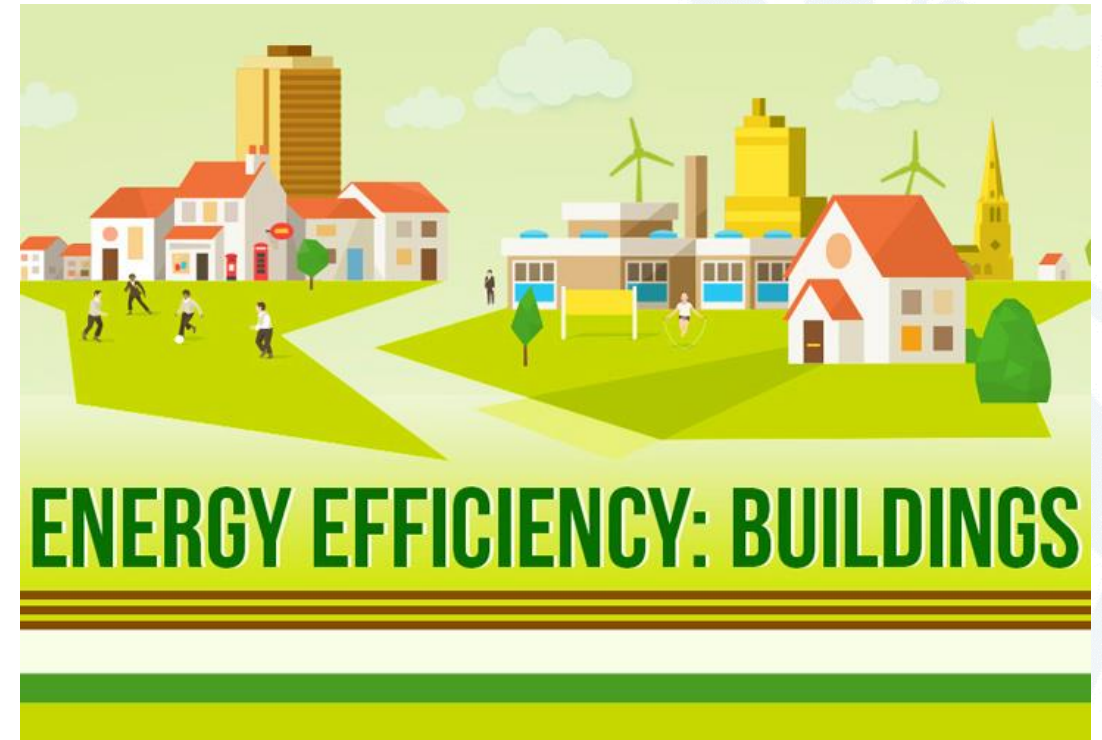




Worldwide, the construction and operation of buildings accounted for 39% of emissions in 2017



Image source: Siemens



<https://inhabitat.com/wp-content/blogs.dir/1/files/2014/10/Energy-Efficiency-Buildings.jpg>



Global average: 90%!
NZ average: 70%



School Subjects & University Entrance

University Entrance:

- Calculus and Physics at Level 3 (NCEA), Cambridge AS Level

Useful School Subjects:

- Business and Management
- Digital Technologies
- Economics
- Design and Visual Communication
- Language rich subjects (English, History etc.)

University Degree / Courses:

- BE (Hons): Mech, Elec, Arch. Engineering, Construction Engineering

