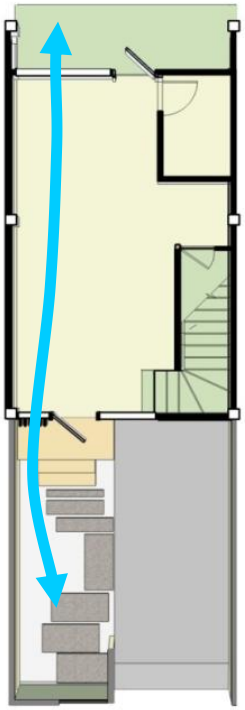
NHA Innovation Challenge 2021

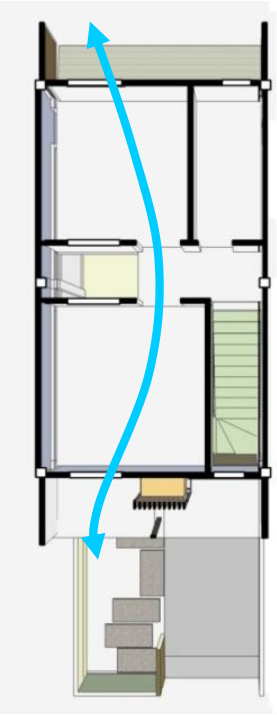
2.2 PROCESS INNOVATION

‘The most efficient use of energy in a low-cost townhouse’

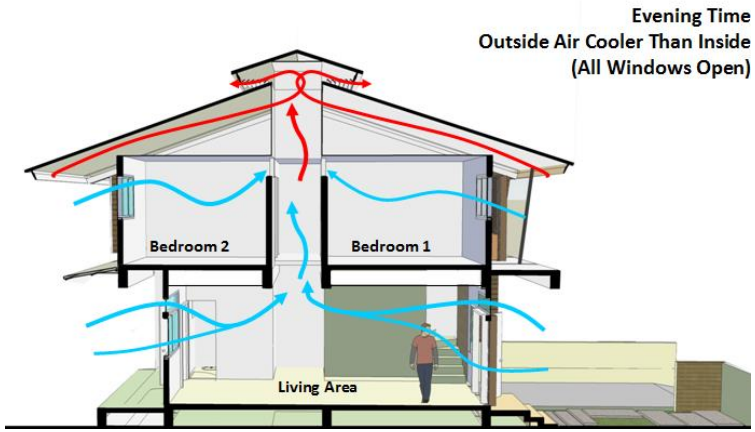
(‘การใช้พลังงานอย่างมีประสิทธิภาพสูงสุดในบ้านทาวน์เฮ้าส์ต้นทุนต่ำ’)

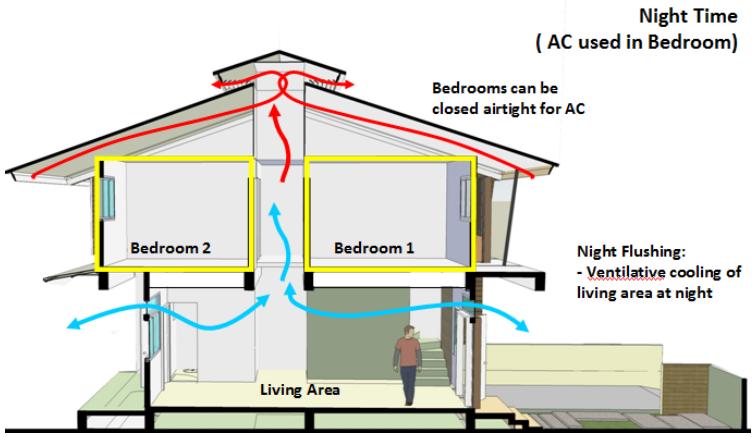
‘Ventilation’





Cross Ventilation



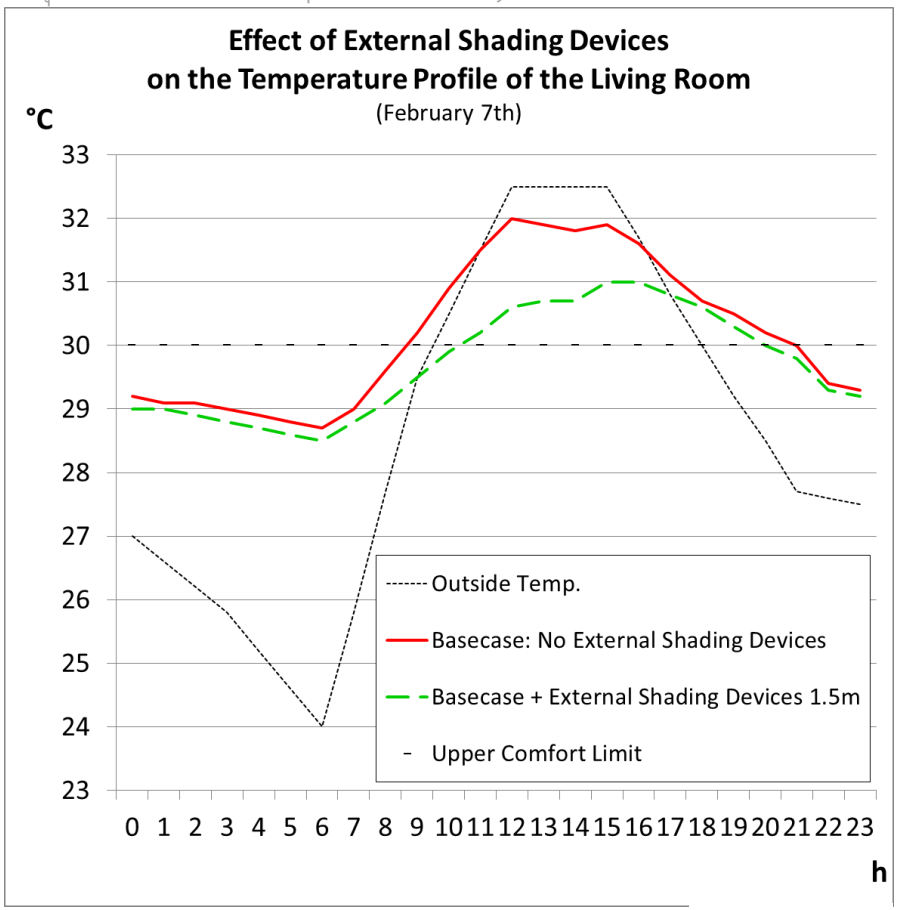


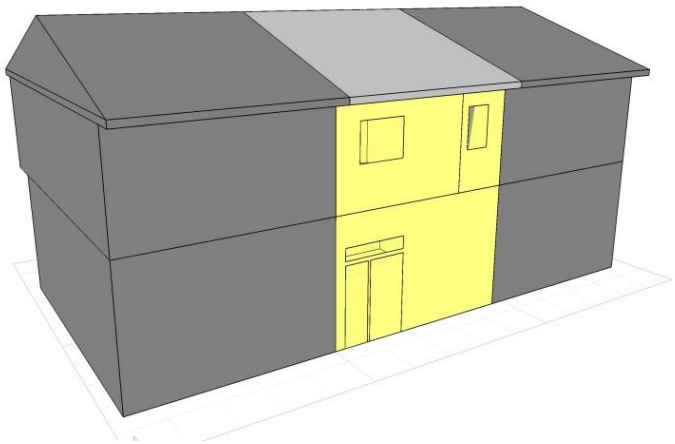
Stack Ventilation (Vertical)

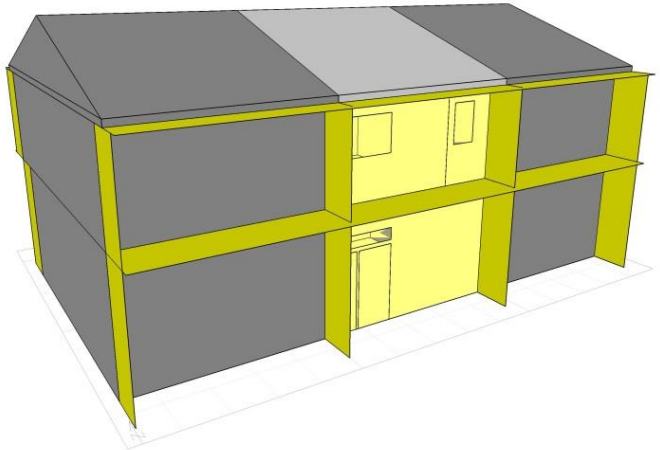
ออกแบบให้เหมาะสมกับสภาพอากาศจะช่วยให้เกิดภาวะน่าสบายและลดการใช้ระบบปรับอากาศ

‘Shading Device’

สรุปรายงาน (Final Report Summary)







Shading vs No Shading

Simulated by Ecotect Program

การเคหะแห่งชาติ National Housing Authority

giz Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

‘PLAN’

Open Plan for Stack Ventilation (Vertical)

Shading

Facade

‘MODEL’

Void for Stack Ventilation

Facade