

Living the Integrated Life

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www.cir-strategy.com/events/

YOUR SMART HOME



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YOUR SMART HOME



Home / Building Automation

Background

YOUR SMART HOME



Automatic
Lights

Energy
Management

Independent Zoned
Climate Control

Rain Sensors

Integrated
Multi Media
System



Automatic
Wipers

Television
with DVD

Adaptive
Occupancy
Settings

Automatic
Locking

Fibre Optics

User (driver)
memories

Surround
Sound

Automatic
Dimming

Timed
Lighting
Programs



Manually
Switched Lighting

1950s electrical
concept

Basic
Entertainment
System

Un-zoned
heating

No Energy
Management

No weather
sensing



No
Occupancy
Sensing

No
Integration

Low Security
(human
fallible)



Automation Industry Today

YOUR SMART HOME



Heating Systems

YOUR SMART HOME



YOUR SMART HOME

INPUT

**THERMOSTAT
READING**

**PROCES
S**

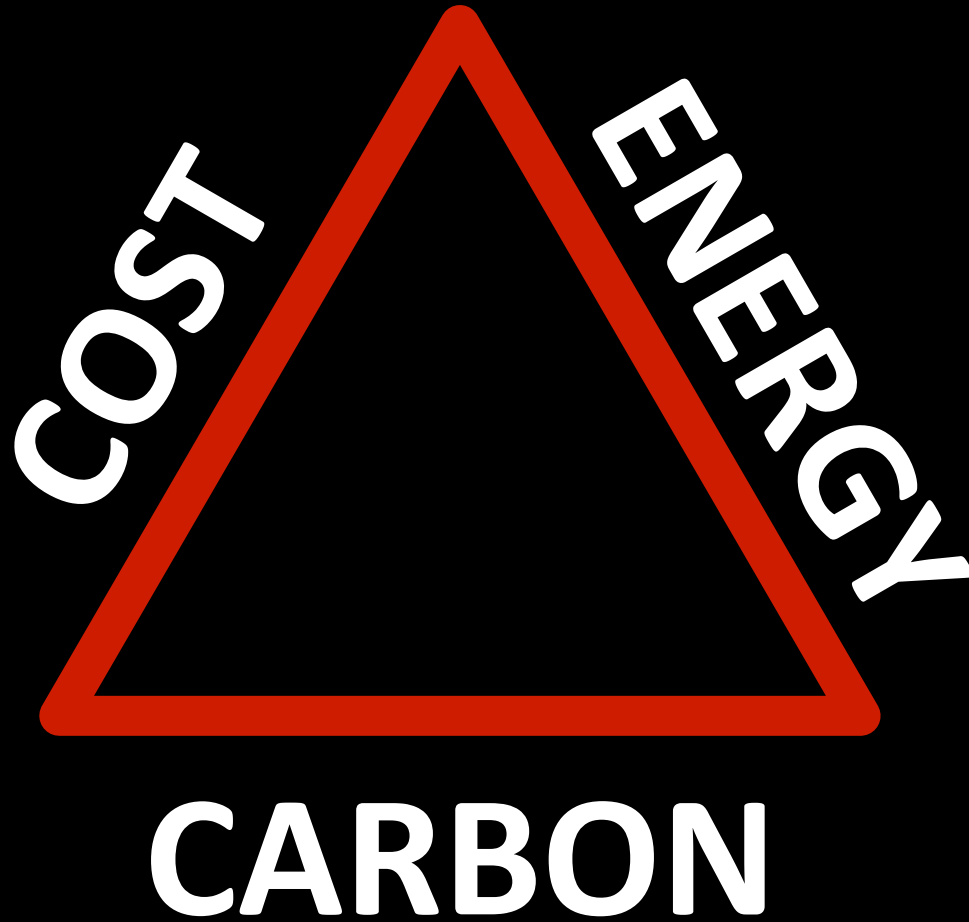
**IF $t > 20^{\circ}\text{C}$ THEN
Turn off**

OUTPUT

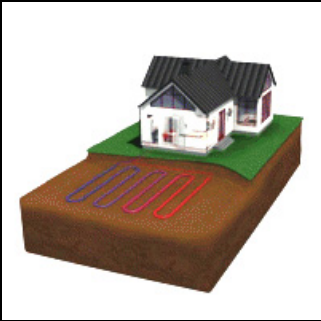
**Zone Valve
Closes**



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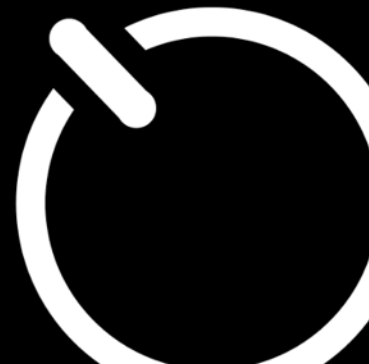


YOUR SMART HOME



YOUR SMART HOME

IF SOLAR energy produced $>$ than house energy requirements THEN use SOLAR AND divert WIND to ENERGY STORE, ELSE IF WIND $<$ desired threshold AND SOLAR is $<$ desired threshold IF outdoor temp $> 5^{\circ}\text{C}$, THEN switch to GSHP/ASHP, ELSE switch to PELLET BOILER ELSE switch to GAS.



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Jane's Office



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