positiveenergyplaces

zero carbon life for all

rob brimblecombe & dave collins

what we're about...

- creating engaging, beautiful and functional places for people to experience and thrive
- giving meaning to 'sustainability'
- making sustainability profitable

who we are...



dave collins

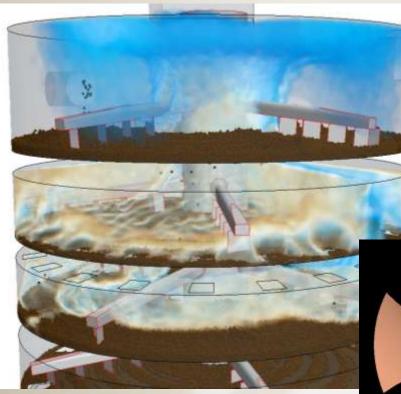
- director, Synergetics Environmental Engineering
- thermodynamics & fluid mechanics specialist



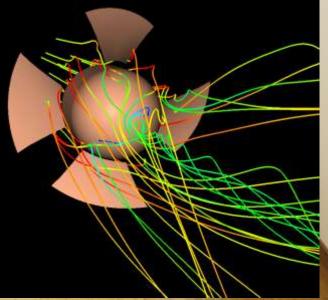
rob brimblecombe

- sustainability manager, monash university
- bio-mimicry specialist

what we do...



- complex process simulation
- deep insights &
- extraordinary solutions



what defines most buildings?

competing interests considered in isolation death by a thousand compromises forgot to check the physics ignored the biology devil in the detail

what are PEPs?

buildings and systems that are positive energy in every meaning;

- energy produce all energy onsite;
- people inspired by and want to spend time in; and
- community build community inside and outside

how to design a PEP?

design for people, and the rest is easy

PEP rules...

- functional
- resilient
- community
- engagement
- air quality and thermal comfort

community...

- design for local community
- for like-minded people
- places people are proud of

engagement...

- with each other
- with surroundings
- with built environment



air quality and thermal comfort...

- access to fresh air, natural light & views
- thermal comfort tailored to meet everyone's needs

positive energy in every way...

- productive
- simplicity
- low maintenance
- renewable energy

current projects...

- 490 spencer street proof of concept
- monash library asset replacement plan
- monash warehouse to office retrofit
- 11 leveson street commercial office retrofit

490 spencer street - proof of concept



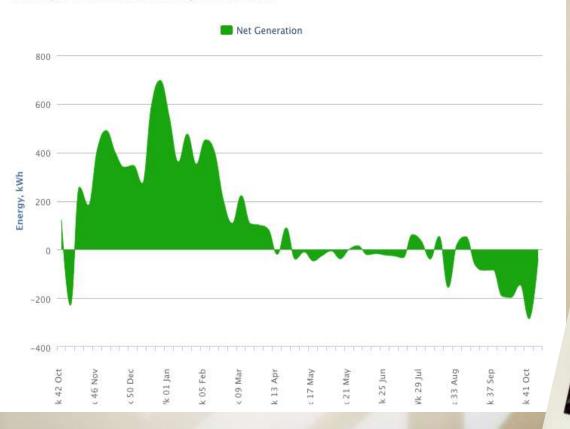
- investment \$300K
- space utilisation
- smash energy consumption
- improved amenities

490 spencer street - proof of concept



490 spencer street - proof of concept

Thursday, 18 October 2012 to Thursday, 24 October 2013

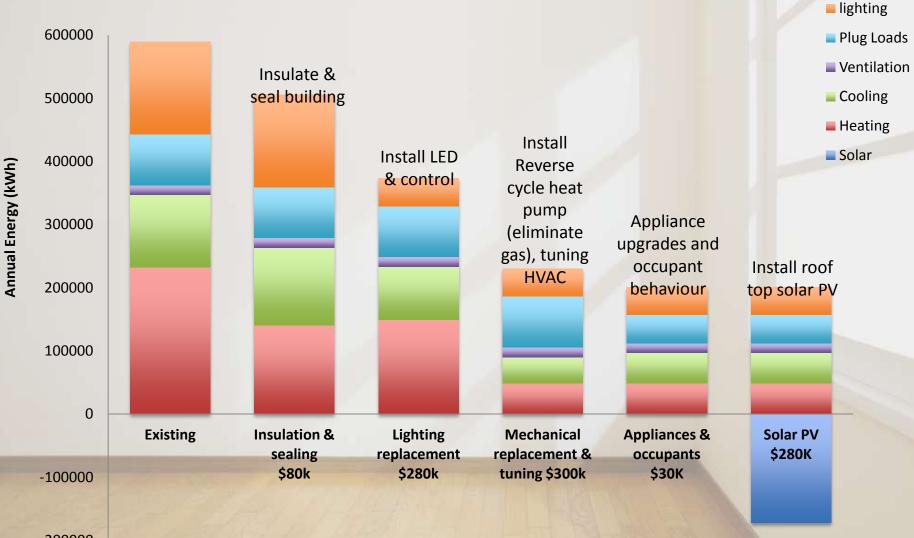


Proof is in the performance and transparency

monash library - replacement plan

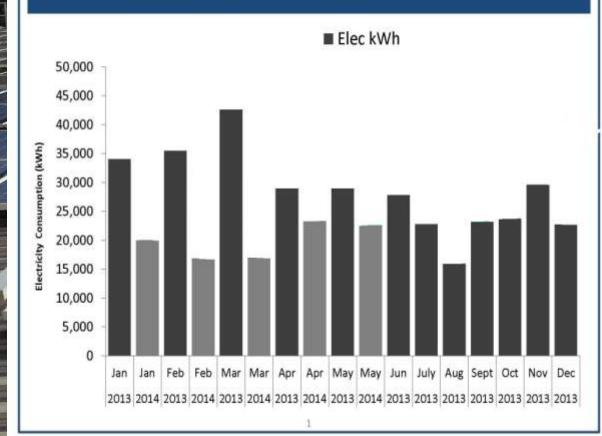


monash library - replacement plan



monash library - replaceme

Peninsula Library – Lighting Upgrade & Solar Installation



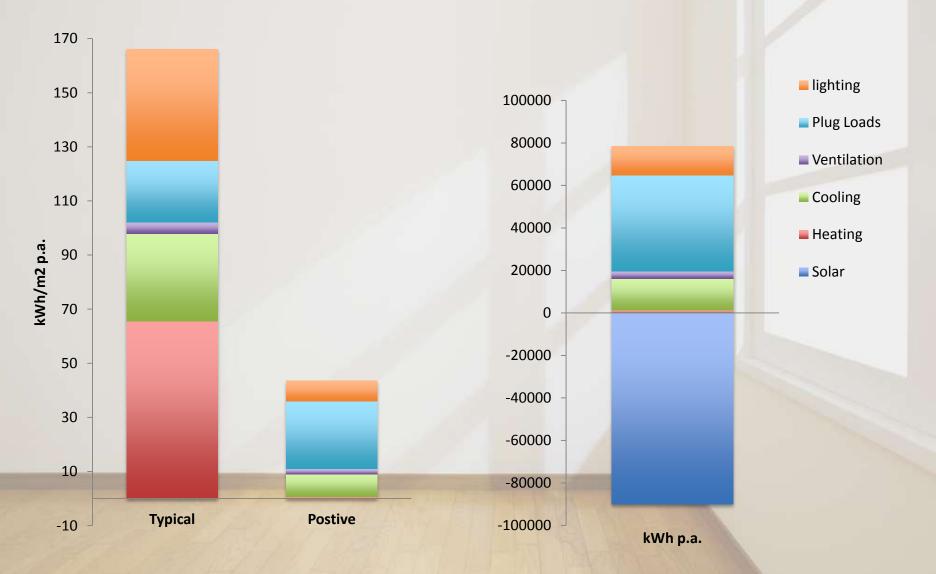
monash warehouse - PEP retrofit



monash warehouse - PEP retrofit

- well insulated airtight envelope
- natural lighting
- view to the outside
- 100% fresh air
- same total cost
- cost premiums offset by savings in building services
- completion late 2014

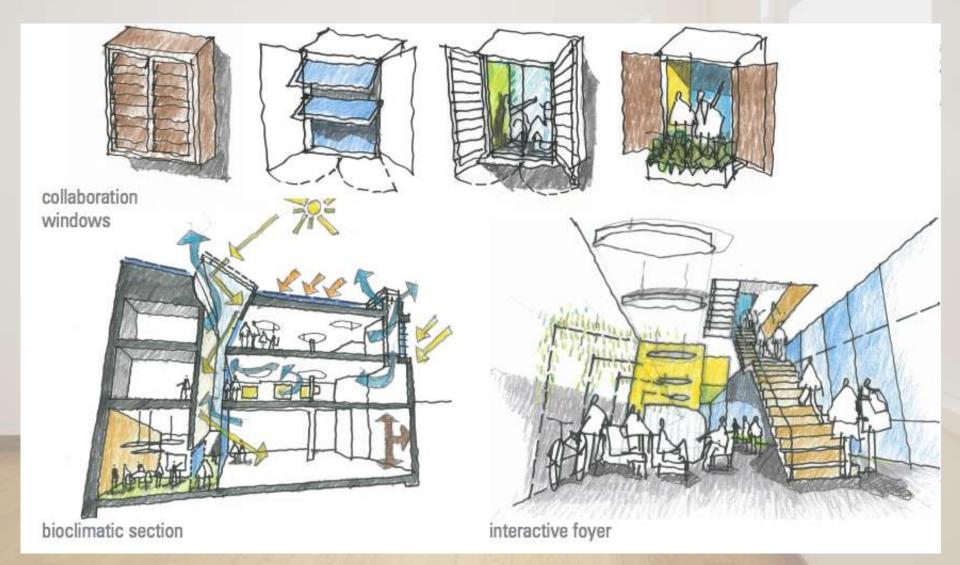
monash warehouse - PEP retrofit



11 leveson street – PEP retrofit



11 leveson street – PEP retrofit



what can I do?...

- tenants tell us about your property needs
- finance providers invest in our property secured investments with premium returns
- equipment and technology suppliers tell us about your low energy products
- building owners partner with us to retrofit your buildings
- developers partner with us to create PEPs
- everyone join the revolution...tell your friends, phone us share ideas

thank you...

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