

# **ENVIRONMENTAL CONFERENCE 2018**

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**RENEWABLES AND ENVIRONMENT**

# OVERVIEW

- Energy storage
- Green energy
- Green building
- Intelligent building products
- Insulation

**AREAS OF INTEREST - ENVIRONMENTAL CONFERENCE 2018**

# OVERVIEW

- Passive solar design
- Sustainability in building
- Lighting control
- Smart building
- Solar roof/panels

# ENERGY STORAGE

- The Warrenheip Battery – close to Ballarat
- The Gannawarra Battery – near Kerang

<https://www.energy.vic.gov.au/batteries-and-energy-storage>

# ENERGY STORAGE

- TESLA POWERPACKS CONNECTED WITH NEOEN'S HORNSDALE FARM



<http://ourenergyplan.sa.gov.au/content/battery>

- CLEAN ENERGY COUNCIL



<https://www.cleanenergycouncil.org.au/technologies/energy-storage.html>

# GREEN ENERGY

- LUMO ENERGY



<https://lumoenenergy.com.au/blog/what-is-green-energy#.Wu0OgrgwDYg>

- ENERGY AUSTRALIA



<https://www.energyaustralia.com.au/home/electricity-and-gas/green-energy-plans#/solar-and-batteries>

# GREEN BUILDING

Rockefeller Center, New York City



Canberra Airport, Australian Capital Territory



<https://www.austrade.gov.au/greenbuildings/>

# INTELLIGENT BUILDINGS & PRODUCTS

- ABB

<http://new.abb.com/abb-ability/infrastructure/intelligent-buildings>



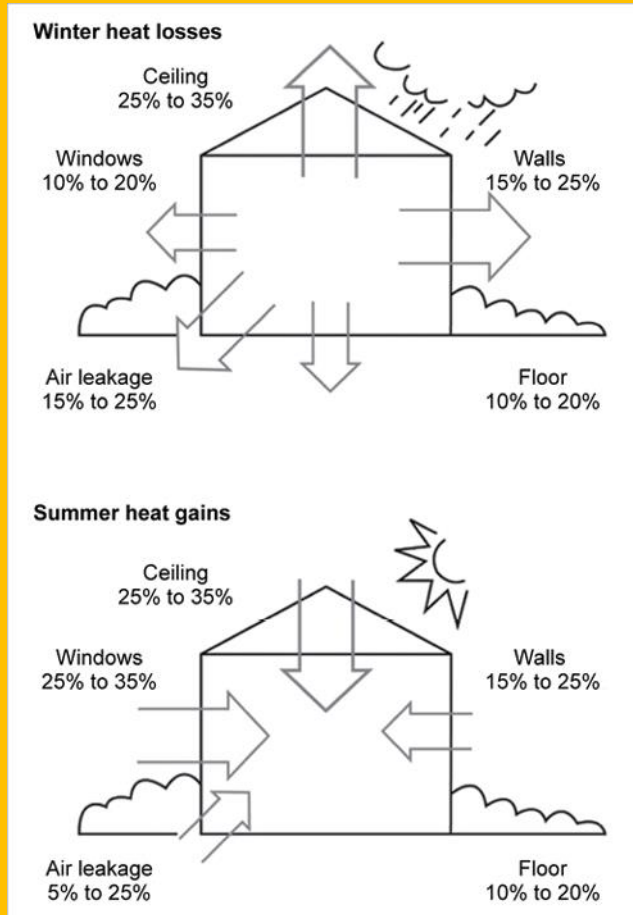
- MOUSER

<https://au.mouser.com/new/TE-Connectivity/te-intelligent-buildings/>



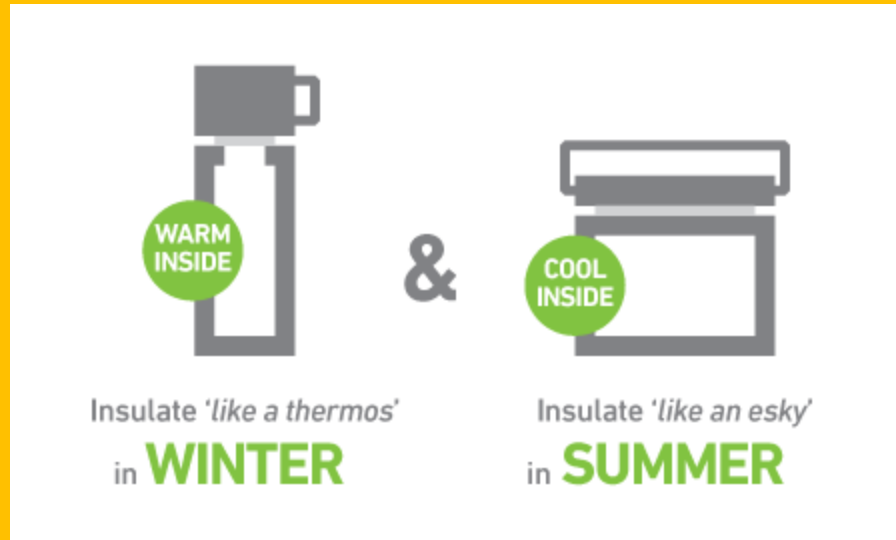


# INSULATION



[www.yourhome.gov.au](http://www.yourhome.gov.au)

# INSULATION



<http://www.sustainability.vic.gov.au/You-and-Your-Home/Building-and-renovating/Insulation>

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# PASSIVE SOLAR DESIGN

- US GOVERNMENT INITIATIVE

<https://www.energy.gov/energysaver/energy-efficient-home-design/passive-solar-home-design>

- AUSTRALIAN GOVERNMENT INITIATIVE

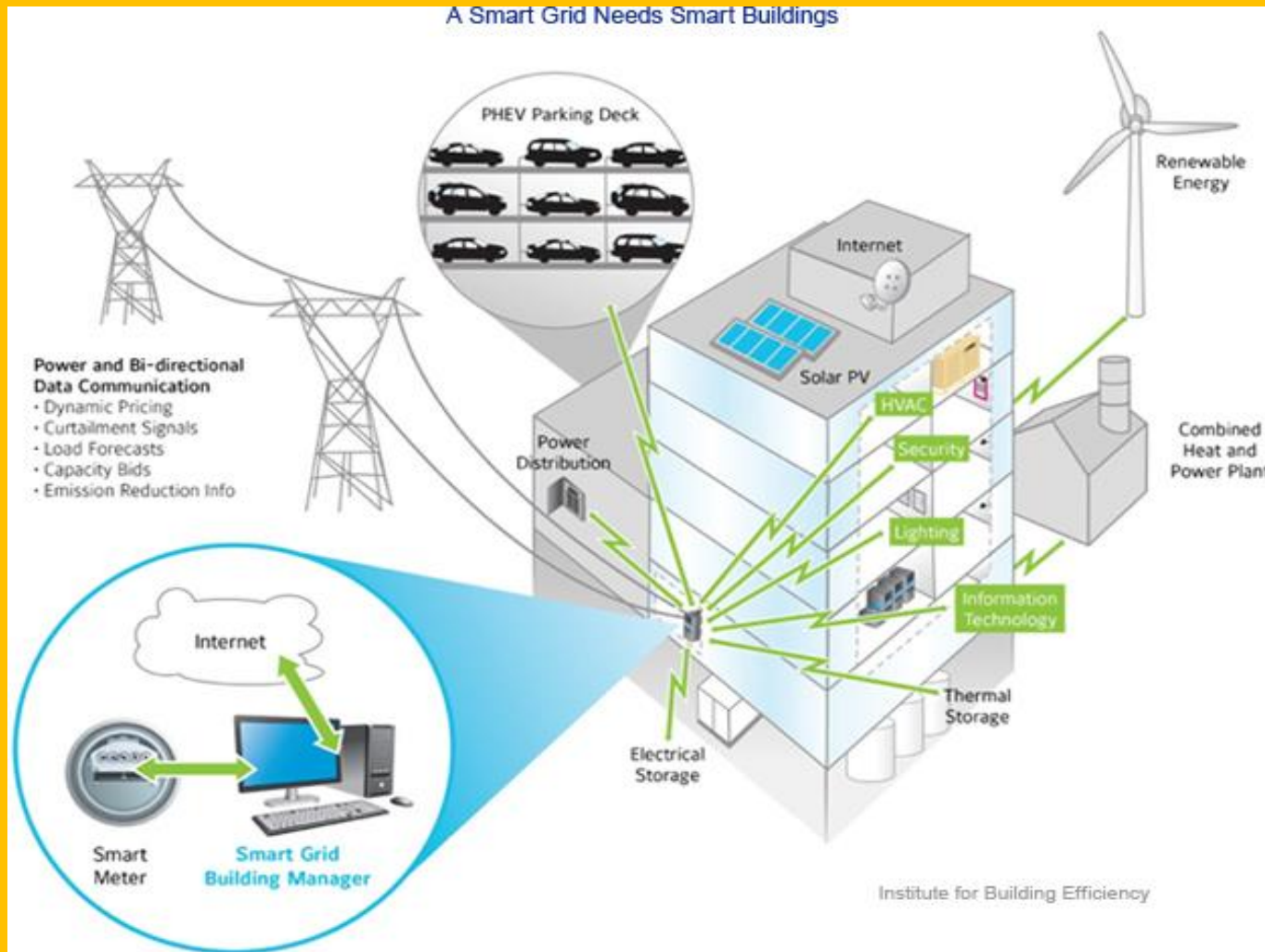
<http://www.yourhome.gov.au/passive-design/passive-solar-heating>

# SUSTAINABILITY IN BUILDING

- QUEEN VICTORIA MARKET
- COUNCIL HOUSE 2
- EAST MELBOURNE LIBRARY
- RMIT SWANSTON ACADEMIC BUILDING
- FRESHWATER PLACE APARTMENTS

<http://www.melbourne.vic.gov.au/building-and-development/sustainable-building/sustainable-building-case-studies>

# SMART BUILDING



<http://www.buildingefficiencyinitiative.org/articles/what-smart-building>

# SMART BUILDING

- INTEL



<https://www.intel.com.au/content/www/au/en/smart-buildings/overview.html>

- MICROSOFT



<https://www.microsoft.com/en-au/internet-of-things/smart-building>

# SOLAR ROOF/PANELS

## TESLA SOLAR ROOF



[https://www.tesla.com/en\\_AU/solarroof](https://www.tesla.com/en_AU/solarroof)



# SOLAR ROOF/PANELS

MONIER



<http://www.monier.com.au/Products/Solar>

# CONCLUSION

QUESTIONS ?

