

# NEV Member Building Meetings

## First one – 4th Sat of month (to begin with)

To assist members designing their home – non-members welcome

### John Shiel

Has an Energy Efficiency business; Author of Cooling Your Home;  
Former Civil Engineer with PhD in retrofitting houses for climate  
change and scarce resources; Former IT consultant; Convener, Stage  
2 Building Standards Working Group; Living in a cluster on site;  
Helped with original building standards; On Legal and Finance and  
Smartgrid groups

Please note – we are recording these presentations for others (we will save the questions and answers). Turn off your screen if you wish

# Agenda

1. Please note – we are recording this for others
2. Acknowledgement of country
3. 1:05pm - Next meeting – 4<sup>th</sup> Sat in March 26/3/22
4. 1:10pm - Deb and Dan Mohr's house & Q&A
5. 2:10pm Bio-break
6. 2:20pm - Variety of houses in Stage 1
  - Earthwalled (rammed earth, super-adobe), hempcrete, strawbale, timber stud, brick veneer, reverse brick veneer, computer-cut timber
7. 2:40pm - Workshop – breakout rooms to discuss your house
8. 3pm - Final Q&A –house plans, ideas
9. 3:25pm Closing round

## 2. Acknowledgement of country

*I acknowledge the Guringai and Darkinjung people, the traditional owners of the land on which I live, and the owners of the lands of all attendees, and pay my respects to the Elders past and present.*

- NB: we are recording this for others

# 3. Next meeting

- 4<sup>th</sup> Sat
- 26/3/22
- Another member house, plus an expert in sustainable building design.

## 4. Deb and Dan Mohr's house & Q&A

- PH drawbacks – high insul; vapour barriers; filter brings in smoke

# 5. Bio-break

# 6. Variety of houses in Stage 1

- Earthwalled (rammed earth, super-adobe)
- Hempcrete
- Strawbale
- Timber stud
- Brick veneer
- Reverse brick veneer
- Computer-cut (NC) timber

# Stage 1 homes

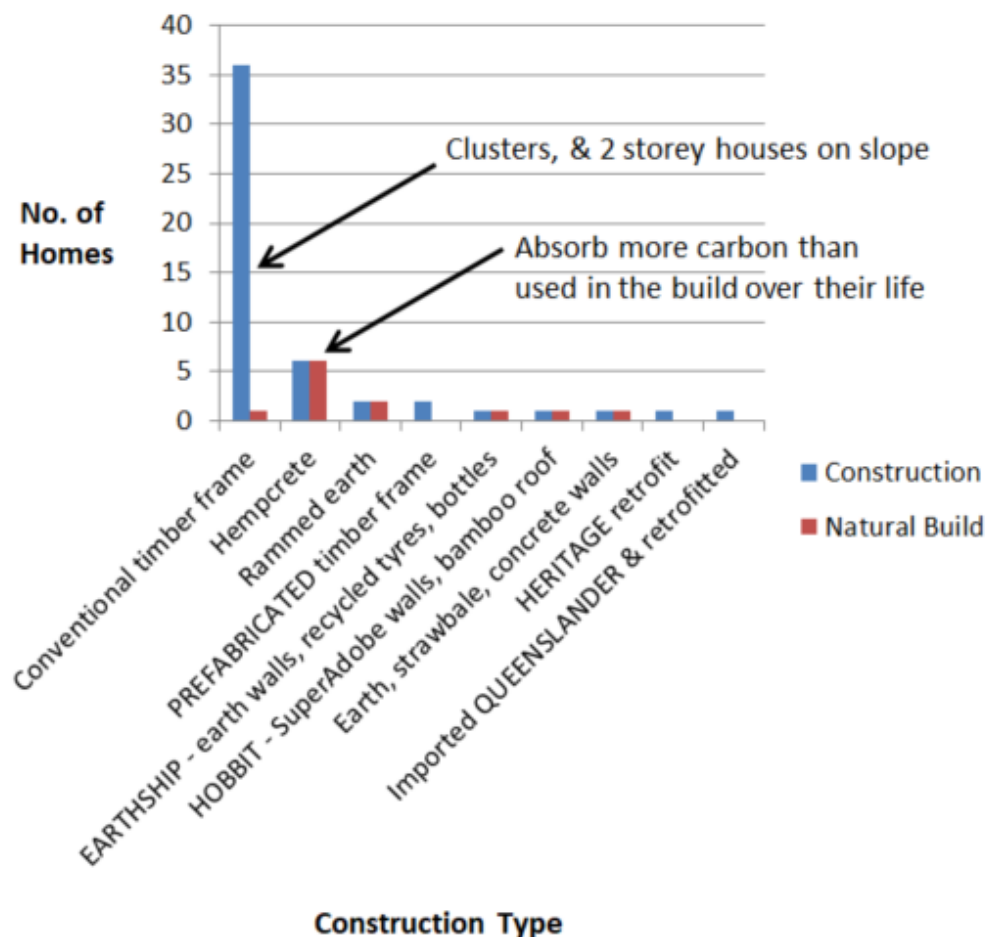
- Our building standards are **key to delivering on our vision & mission**
  - Our **values** include using energy efficiently (CMS) – more sustainable homes, less air conditioning
- 50 homes have achieved
  - **Average of 7.7 stars** NatHERS rating
  - Average of **6.2 kW** of PV
  - Floor area **av. 129m<sup>2</sup>**
    - **66%** below **150m<sup>2</sup> preferred maximum**
      - Small homes are more affordable, and use less energy



# Variety of houses

Due to our performance-based building standard which is not prescriptive

Type	No.	Natural Build
Conventional timber frame	36	1
Hempcrete	6	6
Rammed earth	2	2
PREFABRICATED timber frame	2	
EARTHSHIP - earth walls, recycled tyres, bottles	1	1
HOBBIT - SuperAdobe walls, bamboo roof	1	1
Earth, strawbale, concrete walls	1	1
HERITAGE retrofit	1	
Imported QUEENSLANDER & retrofitted	1	
<b>Grand Total</b>	<b>51</b>	<b>12</b>



# Conventional timber frame



# Hempcrete

Absorb more carbon over its lifetime than it uses  
– Our CMS aspiration



# PREFABRICATED timber frame



# Rammed earth



# EARTHSHIP - earth walls, recycled tyres, bottles



# HOBBIT - SuperAdobe walls, bamboo roof



# Rammed Earth, strawbale walls





# HERITAGE retrofit



# Imported QUEENSLANDER & retrofitted



# 7. Workshop

- Breakout rooms
  - to meet others interested in building in the village
  - discuss your ideas
  - bringing questions back to main room

# 8. Final Q&A

- Questions on any house plans
- Issues?
- John S
  - Max and Tina share with son; Clair – to share with sister
    - Issues – material shortages
      - partner with hempcrete supplier; NEV could get 2<sup>nd</sup> hand licence and demolish houses
    - Builder shortage
      - NEV will ask additional builders to visit site for Clusters and see if they wish to be involved
- Megan
  - Ruth; Rod has been sampling different types of houses - stay in cluster, hempcrete, micro-climate (humidity, heat)
- Heather (shipping containers)
  - Simon (shared house), Mary-Lou Hansen, Adam & Sierra (family)
    - Lou said hempcrete overseas was better quality
- Bon
  - Linda, Richard Denham – cost of materials, builders,

# 9. Closing round