



Towards Zero Carbon

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What?

- Programme to deliver nearly 40 zero carbon homes
 - Across the geography we work
 - Using different and appropriate construction techniques
 - With different technology
 - Different procurement options

Why?

- To understand how we can deliver homes that are
 - Cost effective to build
 - Deliver truly sustainable homes
 - Are easy to use / maintain
 - Liked by residents/community
 - Replicable
 - A pattern for the future

How?

- **Lovejoy Lane, Windsor**
 - 8 Code 5 & 1 Code 6 homes completed 2011



How?

- **Stoneham Green, Southampton**
 - 11 Code 6 Homes completed 2012



How?

- **Copnor Green, Portsmouth**
 - 14 Code 5, 4 and 3 homes completed 2013



How?

- **Bordon/Whitehill Ecotown**
 - 3 code 5 homes to be completed 2014



Outcomes:

- **34 homes completed, being monitored and evaluated**

Outcomes

- **For Residents...**
 - High levels of satisfaction
 - Lower energy use and bills
 - Changing lifestyles

Outcomes...

"No mould, clean, quiet, warm, we have a different lifestyle as it is safe for our children to play out..."

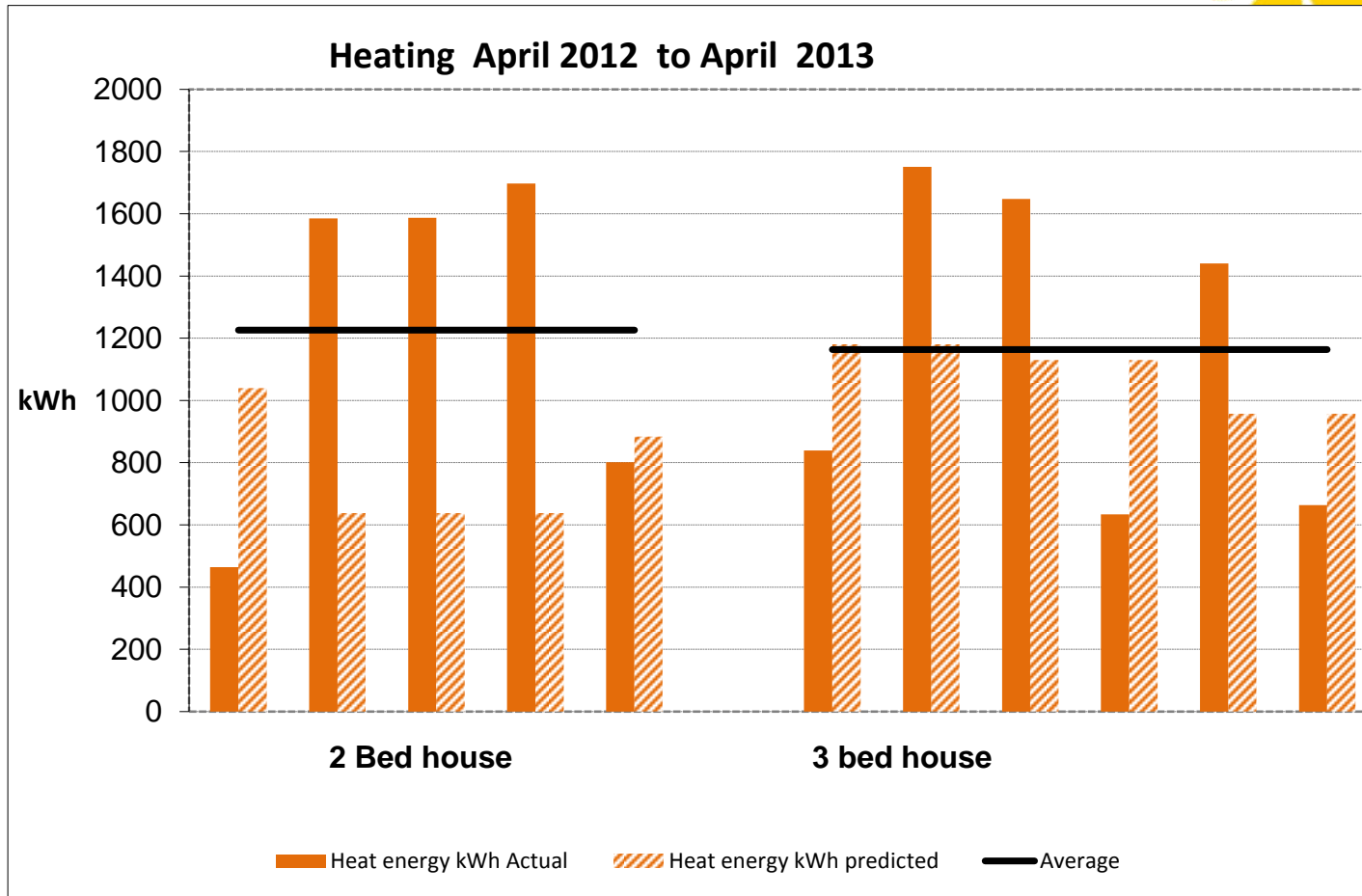
"its unbelievable, outstandingly better and beats the old home hands down..."

"No comparison, it feels like I've moved into a palace; I wouldn't give this house up for anything."

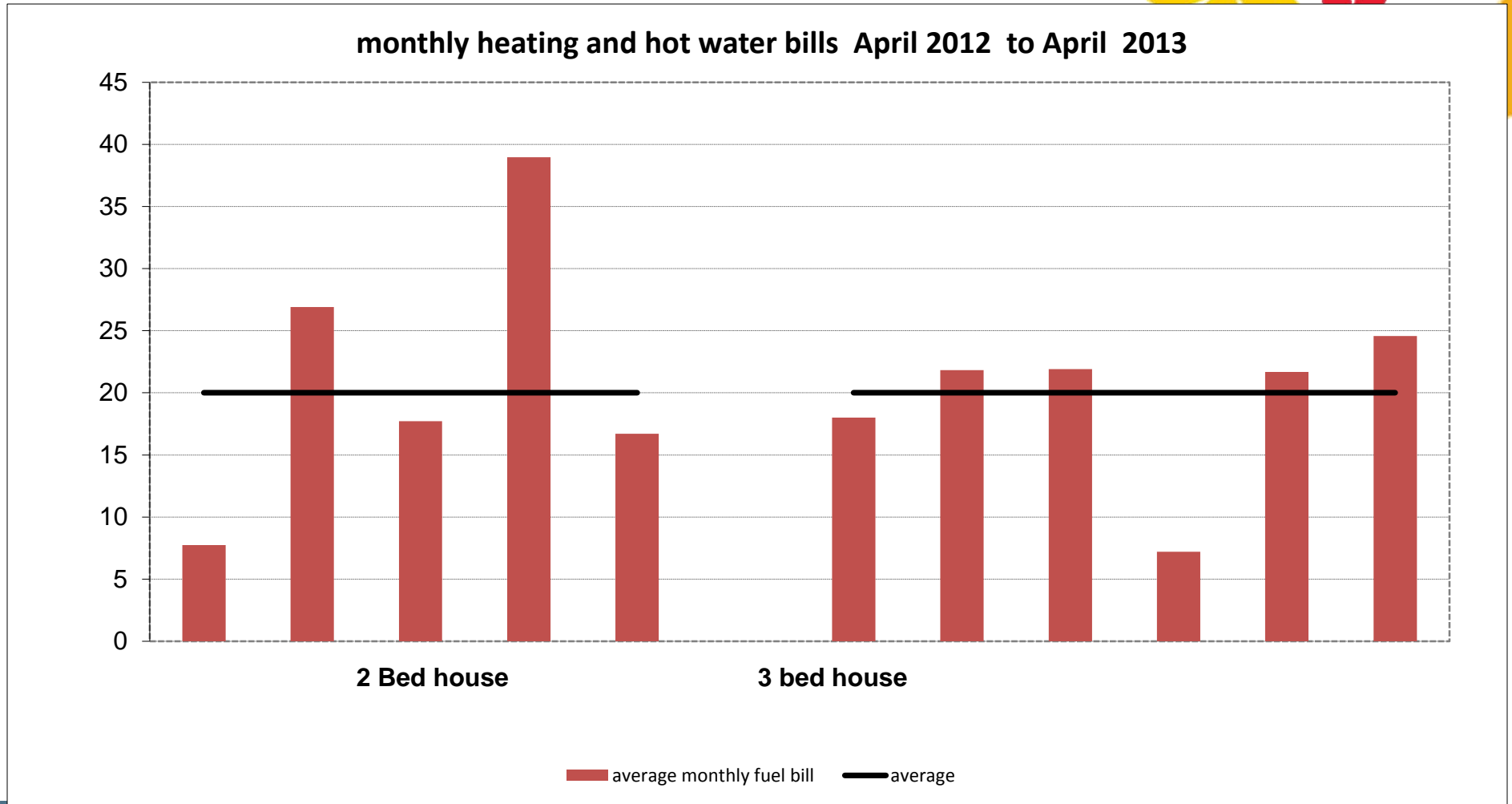
"..its a dream house..."

"...it felt like I'd won the lottery I'm very lucky."

Heating



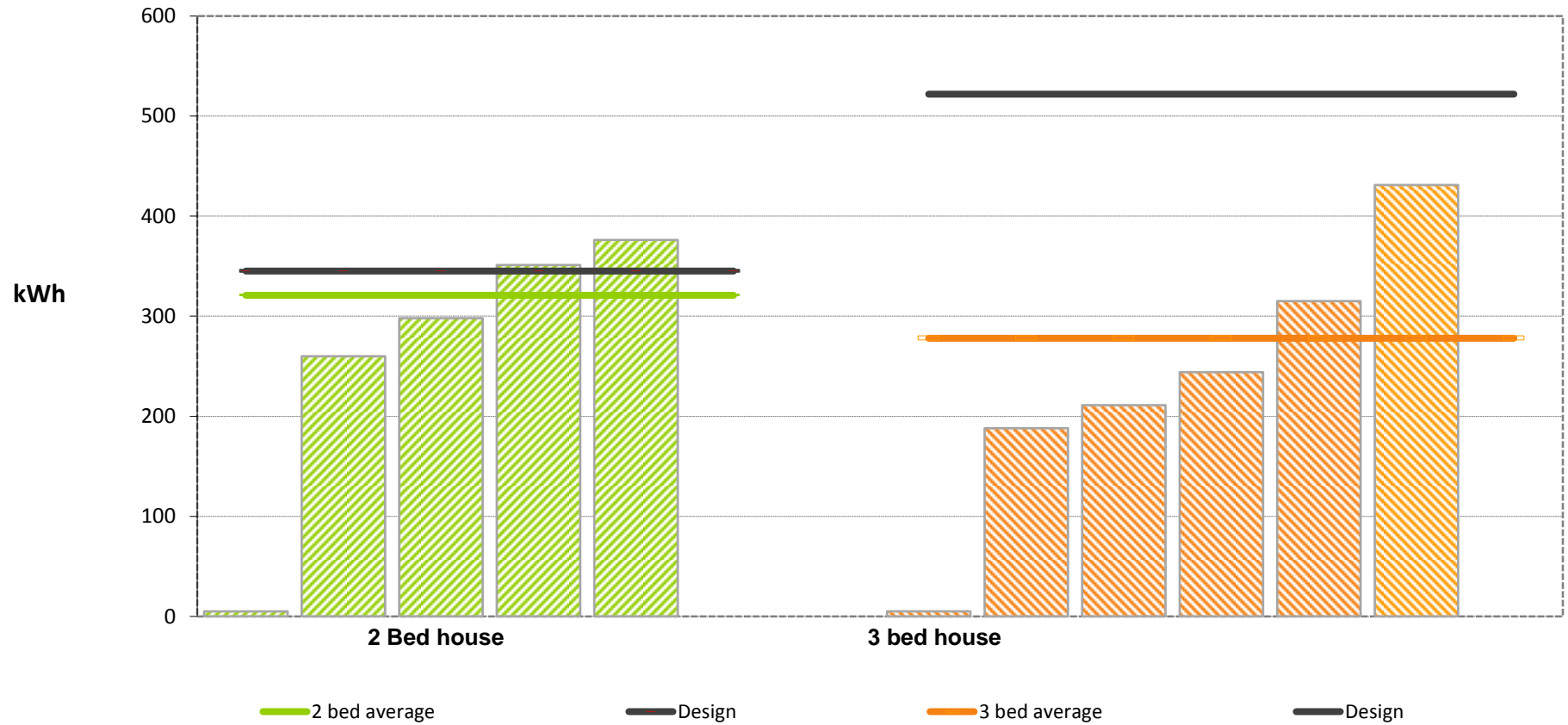
Hot Water



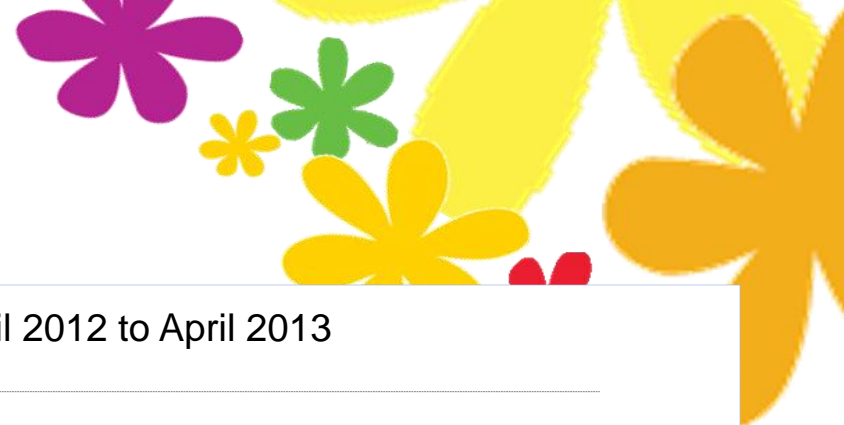
Electricity



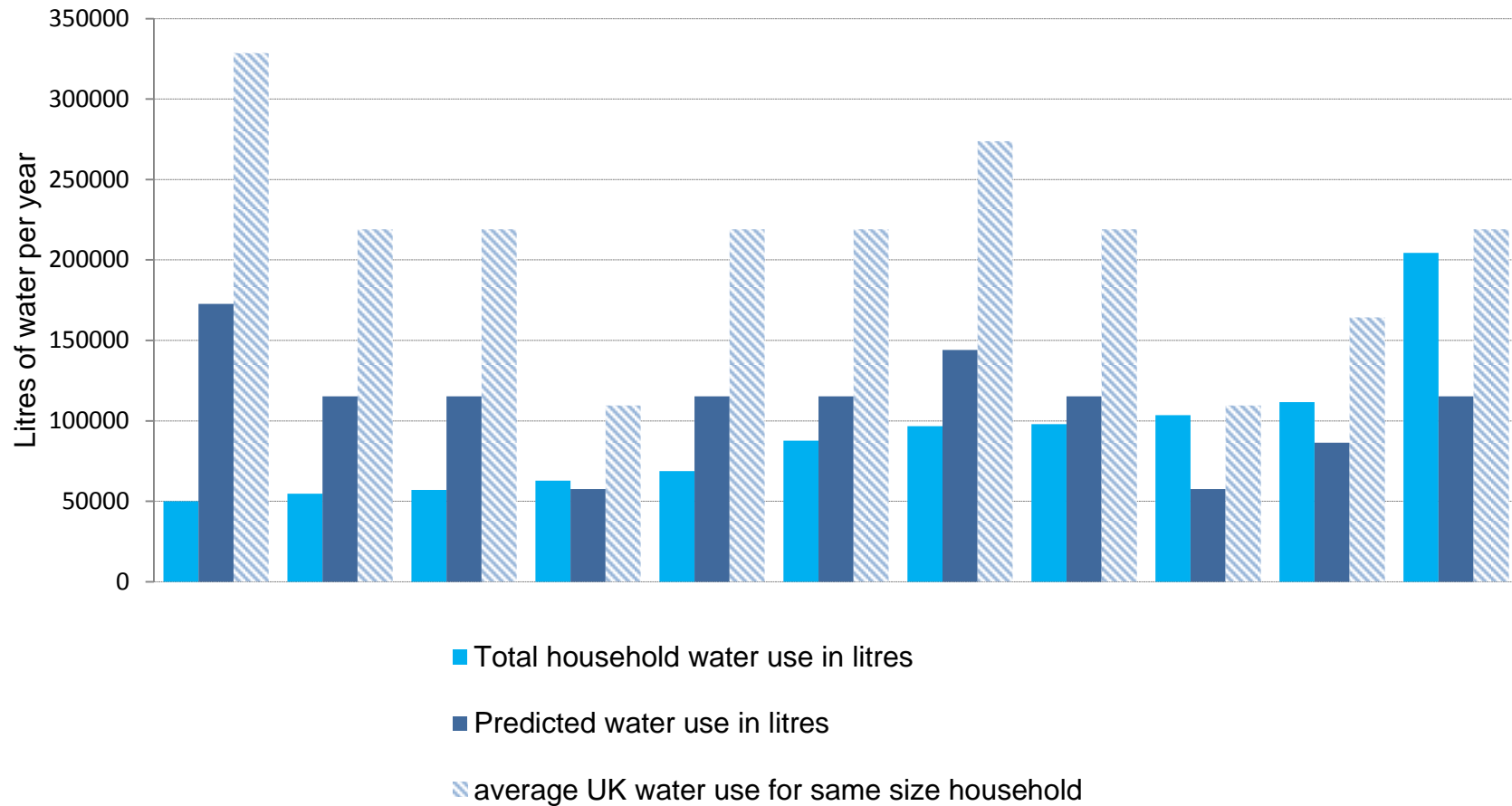
Electricity use April to October 2012



Water use



Internal water use at Stoneham Green April 2012 to April 2013



Costs

	Est. Average bill in previous house/month	Est. Average bill in new house/month	Saving
Heating and hot water	£50.00	£20.00	£30.00
Electricity	£57.00	£24.00	£33.00
Water	£41.00	£30.00	£11.00
Total	£148.00	£68.00	£74.00

Outcomes

- **For Radian...**

- Developing approach to delivering future homes
- ‘Building Performance standards’
- Understanding and confidence to deliver high level of Cfsh

Outcomes

- **For Others..**
 - Sharing information with developers, other RSLs and consultants
 - Helping Local Authorities.
 - Contributing information ZCH and NHBC for example

Questions?

