



Cults Parish Church  
*reaching out to the community*

# Welcome to Cults Kirk Centre

Wednesday,  
8<sup>th</sup> October 2014



# Church Development & Energy Efficiency

- **Two distinct projects**
  - At Cults - a new build
  - In Stirling - refurbishment of an existing building
- **Similar objectives**
  - Facilities for 21<sup>st</sup> Century
  - Best value construction & maintenance
  - Ecologically sound design



# Cults development

- **Opportunity**
  - Union between East and West churches
  - ‘Vision’ statement part of agreement
  - Agreement of General Trustees
- **Execution**
  - Development of ‘User Requirements’
  - Appointments & contracts
  - The realisation!



# Cults development

## Stage 1. Design and planning

- **Architect and planning**
  - Meeting User Requirements
  - Meeting Planning requirements/expectations
    - Reducing carbon emissions (Planning advice note 84)
    - Air source heat pumps; insulation; air heat exchangers
- **Contractor and Supplier selection**
  - Costs vs capabilities



# Cults development

## Stage 2. Realisation

- **Site teamwork**
  - Planning, planning, and more planning
  - Eliminate/Minimise design change
- **Commissioning**
  - Complex systems require thorough commissioning



# Cults development

## Stage 3. Living with the building

- **Building management**
  - Refining equipment settings
  - Developing maintenance requirements
  
- **Managing expectations**
  - Owners;
  - Users.



# Cults development

## Stage 4. Facility management

- **Space heating system**
  - Under-floor water circulation system
  - Domestic hot water
  - Flow balance and hot spots
- **Insulation and temperature control**
  - High specification of insulation
  - Air movement



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## Stage 5

## Energy efficiency

- Is our use of energy more efficient ?
- Carbon footprint (tonnes of CO<sub>2</sub>)

Year	Church	Outreach Centre
2009	20.44	38.40
2014 (Q2)		5.29





# Cults development

## Have we met our 'Vision' ?

We've met all of the 'User Requirements'

We completed (largely) on budget, and on time

We've got a very busy and effective facility which meets our aspiration :-

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