

# Christ Church: the (Low Energy) Future

Creationtide 2011  
4 September

# Round One: Alternative Energy

## Round One: Alternative Energy (1)

we use our extensive south-facing roof to install solar hot water heating (or photovoltaic micro-generation)

## Round One: Alternative Energy (2)

we invest a proportion of our capital  
in tidal power generation

## Round One: Alternative Energy (3)

we allow a community group that promotes air source heat pumps to use our meeting room once a week free of charge

# Round One: Alternative Energy (4)

we advertise for a  
musician-in-residence —

we advertise for a  
musician-in-residence —

they can practice every night as long as they spend  
15 minutes checking everything is off and reporting  
when there's unusual activity on the meters

# Round One: Alternative Energy

solar panels



# Round One: Alternative Energy

solar panels

punt on tidal

# Round One: Alternative Energy

solar panels

punt on tidal

promotion

# Round One: Alternative Energy

solar panels

punt on tidal

promotion

musical goy

# Round Two: Love Thy Neighbour

## Round Two: Love Thy Neighbour (1)

we all sit as far forward as possible —

## Round Two:

### Love Thy Neighbour (1)

we all sit as far forward as possible —  
for warmth, and so we can turn off the lights in the  
back

we install moveable seating in the church, and during the week open it to all the people who would otherwise be too cold at home for reading, quilting, ...

## Round Two: Love Thy Neighbour (3)

we actively encourage car-sharing and  
public transport —

we actively encourage car-sharing and  
public transport —

*but how?*

## Round Two:

### Love Thy Neighbour (4)

we move our service to 9:30 and take  
it in turns with MUC to heat our  
premises

# Round Two: Love Thy Neighbour

huddle up



# Round Two: Love Thy Neighbour

huddle up

mixed use space

# Round Two: Love Thy Neighbour

huddle up

mixed use space

car share or  
church bus

# Round Two: Love Thy Neighbour

huddle up

mixed use space

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# Round Three: Setting Limits

## Round Three: Setting Limits (1)

we install a glass ceiling 15 feet up —

## Round Three: Setting Limits (1)

we install a glass ceiling 15 feet up —  
with a robot spider to clean it from  
above

## Round Three: Setting Limits (2)

we run it fairly cool —

## Round Three: Setting Limits (2)

we run it fairly cool — but if any  
preacher looks like going long,  
Michael breaks out a hymn to warm  
us up

## Round Three: Setting Limits (3)

we declare our premises a meat-free  
zone

## Round Three: Setting Limits (4)

we give up display lighting for Lent

# Round Three: Setting Limits

glass ceiling



## Round Three: Setting Limits

glass ceiling

sermon interval

## Round Three: Setting Limits

glass ceiling

sermon interval

veggie kitchens

## Round Three: Setting Limits

glass ceiling

sermon interval

veggie kitchens

Lenten lighting

# Round Four

## The Wind From Above

## Round Four

### The Wind From Above (1)

we install fans to keep the air we've  
heated from rising

## Round Four

### The Wind From Above (2)

we put a windmill on the steeple,

we put a windmill on the steeple,  
or maybe some kind of  
wind-absorptive coating on the tower

we thermally isolate the tower —

we thermally isolate the tower —

even if that means major changes to the whole chancel

we pray for technological advances in  
producing green energy

# Round Four

## The Wind From Above

destratification



# Round Four

## The Wind From Above

destratification

wind power

# Round Four

## The Wind From Above

destratification

wind power

tower/chancel  
revamp

# Round Four

## The Wind From Above

destratification

wind power

tower/chancel  
revamp

prayer

# Round Five

## Under our Feet

we install a ground source heat pump  
under the rectory garden

in the depths of winter, we hold  
services in the hall

we use part of our well-regarded  
garden to show passers-by how  
beautiful and productive food plants  
can be

we refurbish the hall,

we refurbish the hall, stick insulation  
below and above it,

we refurbish the hall, stick insulation  
below and above it, add kinetic  
matting,

we refurbish the hall, stick insulation below and above it, add kinetic matting, and hire it out for sports training

# Round Five

## Under our Feet

ground source heat  
pump



# Round Five

## Under our Feet

ground source heat  
pump

hall services

# Round Five

## Under our Feet

ground source heat  
pump

hall services

garden food

# Round Five

## Under our Feet

ground source heat  
pump

hall services

garden food

insulation and  
footie

# Round Six: Corporate Tie-in

we invite someone to set up a server farm in the hall, and live off the waste heat

we take waste heat from the air conditioning units the other side of our wall —

we take waste heat from the air  
conditioning units the other side of  
our wall —  
leaving our biggest neighbours cooler, but with a  
holy glow

we get the local boulangerie to let us  
all drop off our Sunday lunches to  
cook

we set up a local organic food  
cooperative —

we set up a local organic food  
cooperative —

on Friday afternoons, members take turns using the  
hall kitchen to split the groceries for pickup after  
church

# Round Six: Corporate Tie-in

Google



server farm

# Round Six: Corporate Tie-in

Google

Edinburgh Napier  
UNIVERSITY



TESCO

waste heat

server farm

# Round Six: Corporate Tie-in

Google

Edinburgh Napier  
UNIVERSITY



TESCO

waste heat

server farm

hot lunch

FALKO KONDITORMEISTER

# Round Six: Corporate Tie-in

Google

Edinburgh Napier  
UNIVERSITY



TESCO

waste heat

server farm

hot lunch

FALKO KONDITORMEISTER

grocery share



# Last Round: Panel's Choice