



centre for
sustainable
energy

Fuel Stories

Energy infrastructures, inequalities and community participation

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Abertawe

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Morgan
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www.hyena-net.org

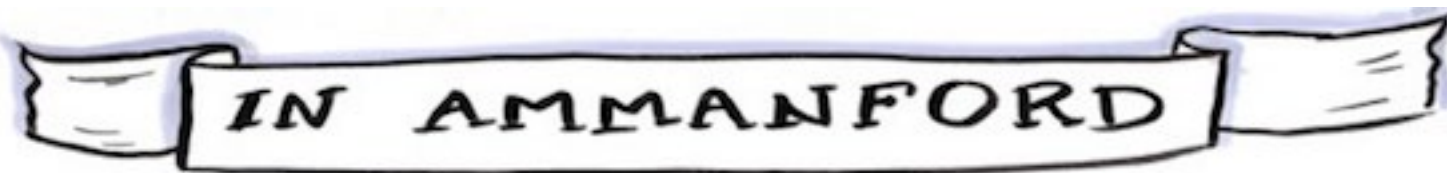
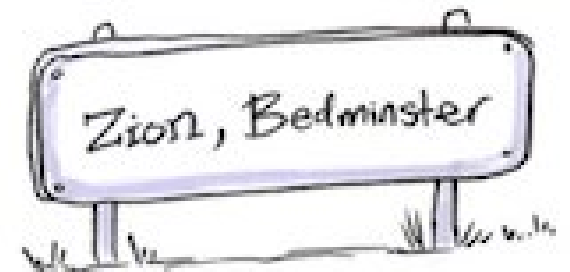


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Fuel Stories



Infrastructural Inequality

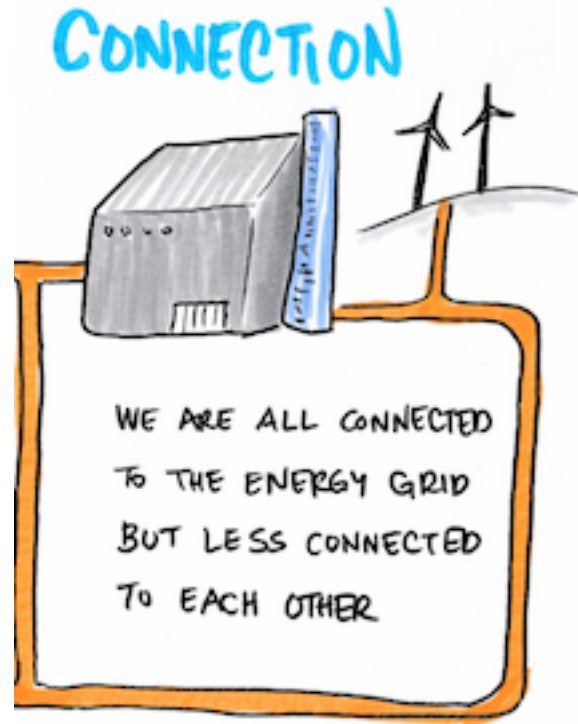
...uneven and inequitable access to infrastructures typical of rural or otherwise marginal locations, cuts across but is subject to existing inequalities.

- Intersectional
- Ethnographically engaged
- Transdisciplinary
- Interrogates imperative of behavioural change



Do inequalities mediate infrastructural access, or does uneven infrastructural access produce inequalities?

Community Energy



How can organisations engage communities with energy?

How can research better equip organisations and communities to engage?

What is so elusive about “community energy” in the UK?



IT HAS BEEN ABOUT
NATURAL RESOURCES
WHAT WE HAVE HAD
AROUND US TO USE!



Fuel Stories

IN AMMANFORD

WHAT COULD OUR
COMMUNITY DO?

What is in the
FUTURE?

COAL

OIL



ARE THESE
THINGS
IN THE
PAST?

HEATING
WITH CALLOR GAS
AND OIL BOTTLES
IS A PAIN!

OFF
GRID



WALES HAS
A LOT OF
WATER!

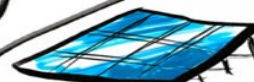
HYDRO
POWER

WIND



BETWS
MOUNTAIN
GETTING
INVOLVED?

SOLAR



BILL PAYERS
PAY FOR OTHER
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WHO
PAYS?

Welsh
Government?

MORE THAN JUST
POWERING DANCE FLOORS?



KINETIC

WOOD



I'm RENEWABLE
and in the
PAST, PRESENT
AND THE FUTURE!

WHO
BENEFITS?

FUEL
for CARS
has changed...

PETROL



DIESEL

ELECTRIC CARS:
• cheaper?
• charging?
• How does it work?



WHAT IF WE HAD AN
ELECTRIC BUS?!

WHY ARE
WE PAYING FOR
SOMETHING THAT'S FREE?

APPS

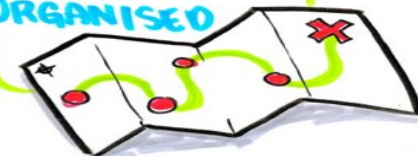


MANAGING
USE

SWITCH
IT ALL
OFF!



PLAN & BE
ORGANISED



COMPARE
OPTIONS!

CANDLES



I STILL USE
THEM FOR
HEAT SOMETIMES...

PEAT

- IT'S STILL
IN USE, ESPECIALLY
IN RURAL PLACES!



WHO
OWNS
RAIN?



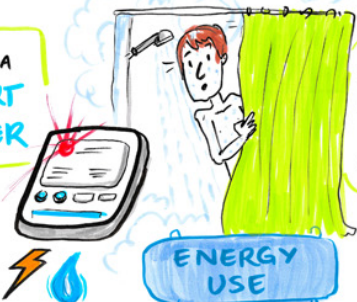
POWER CUTS

PEOPLE IN RURAL
AREAS GET A BAD DEAL!

SANDY
PARK RD.

Fuel Stories

USING A SMART METER



I didn't realise
how much energy
electric showers
actually use!

CHEAPER BILLS BETTER FOR THE ENVIRONMENT



make
do
mend

SS I learned it from my mother... SS



FUNDING for
ENERGY SAVING
is not income related!

Ask the QUESTIONS

THINK:

- MONEY 
- TIME 
- FUTURE 
- WASTE

WINTER
COMING

PREPARING FOR SEASONS

ENERGY USE

- Bills can be shocking...

I want to
teach my
kids too

We have so much going on that we TAKE ENERGY FOR GRANTED!

..until it
BREAKS!

DIFFERENT GENERATIONS, DIFFERENT HABITS...

POST WAR
RATIONING
NEVER WORE
OFF MY PARENTS

SAVING
RAIN
WATER

education

MAKING AN INFORMED DECISION

awareness

 Loyalty 

you could save money by switching!



if you live
LOCALLY,
why not get
energy from

BRISTOL
energy

EVERY DAY DECISIONS

VISUAL BY LAURA SORVALA WWW.AURALAB.CO.UK

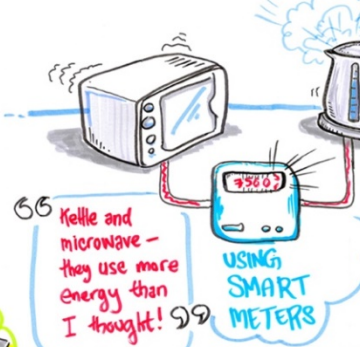
Zion, Bedminster

Fuel Stories



It's hard to get into renewables: so many options and having to do all the work yourself!

When we are driving we love seeing beautiful wind farms and we were at solar panel fields!



Kellie and microwave - they use more energy than I thought!

USING SMART METERS

WINTER USE IS HARD TO BUDGET FOR ON SOME GREEN TARIFFS

GREEN TARIFFS

WHY IS IT MORE EXPENSIVE?

I want to be on one, but it's too expensive.



We like that we know there's something coming back to the community!

OLD VS. NEW HOUSES

OWNING YOUR ENERGY SOURCE

I took a loan to buy solar panels so we could benefit from the best tariff - our QUARTERLY BILLS ARE MUCH LOWER!

ENERGY SAVING MEASURES - LOCAL BUSINESS - Lowered ceiling fabric kept our bills down in the winter

REIN FORCED DOUBLE GLAZING

Fuel Stories



IT WAS POSSIBLE TO GET SOLAR PANELS FOR FREE...

NOW THE COST CAN BE A BARRIER

SOLAR PANELS

SOLAR PANELS USED TO GENERATE A GOOD RETURN - NOT SO MUCH ANYMORE?

PEOPLE STOP AND ASK ME ABOUT MY SOLAR PANELS...

ENERGY CHAMPIONS

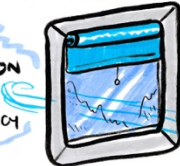


LOCAL RESIDENTS
TRUSTED
VARIED ETHNIC REPRESENT.

I would like a small solar panel just for charging phones - and as a hobby!

I don't want to waste money on heating!

POOR INSULATION + ENERGY EFFICIENCY



WASTING ENERGY?

DELIVERING ENERGY WITHIN THE GRID WASTES ENERGY...

IT'S NOT LIKE YOU JUST PICK UP WOOD IF YOU DROP IT!



Bristol has a ban on wood burners - UNLESS - the wood burner is the only heat source

THAT'S WHAT I HAVE IN MY VAN!

CHOOSE GREEN

I can afford to choose green energy over cost!

ETHICAL INVESTMENT

INVESTMENT ISA

ETHICAL BANKS OFFER THIS!

COMMUNITY ENERGY



I only have so many packets of time!

GETTING INVOLVED

MANY PEOPLE JUST DON'T HAVE THE TIME TO ATTEND COMMUNITY PROJECTS OR ENGAGEMENTS...



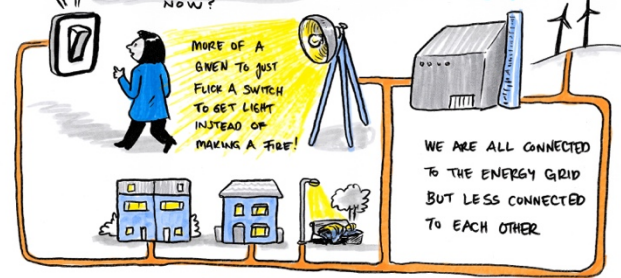
IS ENERGY MORE INVISIBLE NOW?

MORE OF A GIVEN TO JUST FLICK A SWITCH TO GET LIGHT INSTEAD OF MAKING A FIRE!



CONNECTION

WE ARE ALL CONNECTED TO THE ENERGY GRID BUT LESS CONNECTED TO EACH OTHER



INDIVIDUAL CHOICES

DO MY CHOICES MAKE A DIFFERENCE?



CONSTRICTED BY EXTERNAL FACTORS E.G. LANDLORDS

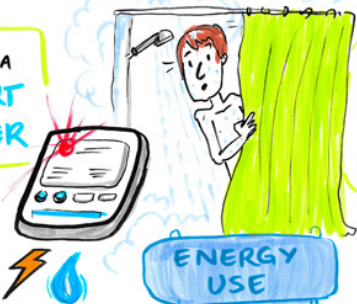
Community: where (what?) are these groups?



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"THE BIG 6"

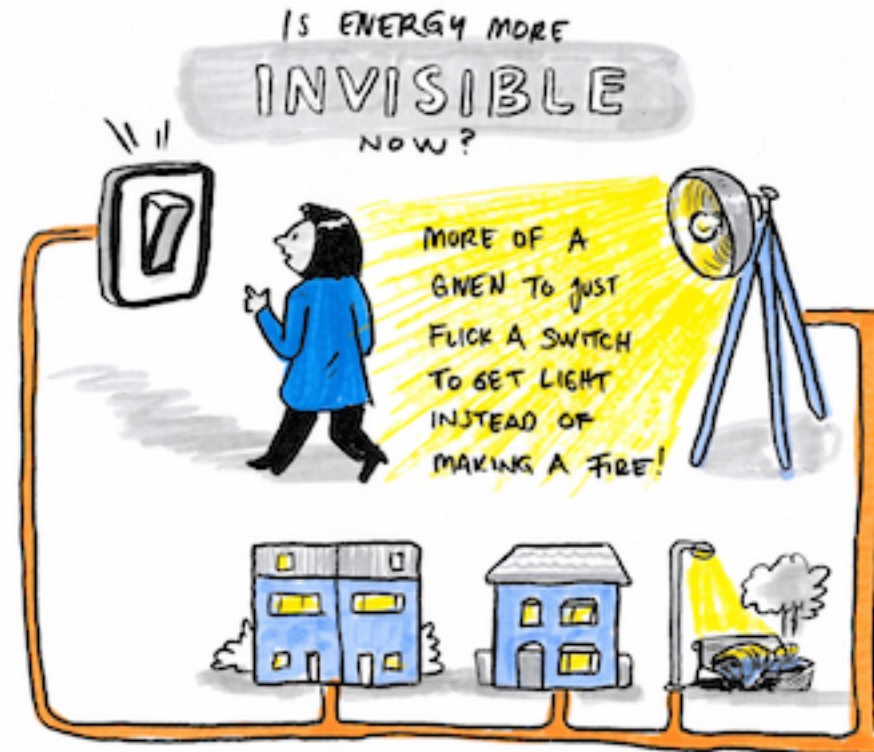
NEEDS



MONEY
TIME

VISUAL BY LAURA SORVALA WWW.AURALAB.CO.UK

Energy Invisibility



Energy illustrated

BP ENERGY OUTLOOK 2019



Engagement: does it have to be novel?



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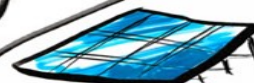
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REFER
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WHO
OWNS
RAIN?

competing needs

intergenerational knowledge

waste

grid

embodied energy

morality

renewable technologies

disciplining technologies

decision making

relationship with providers

SMART

sources

sharing knowledge

energy saving

future

access to guidance

funding

ownership

connection

seasons

past

positioning

change

qualities of energy

visibility

tariffs

appliances

community



Fuel Stories



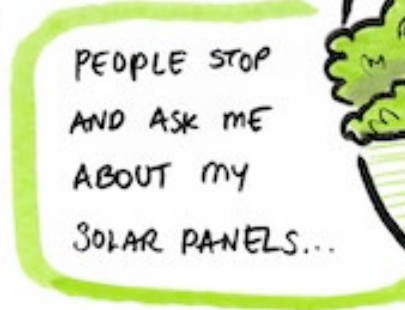
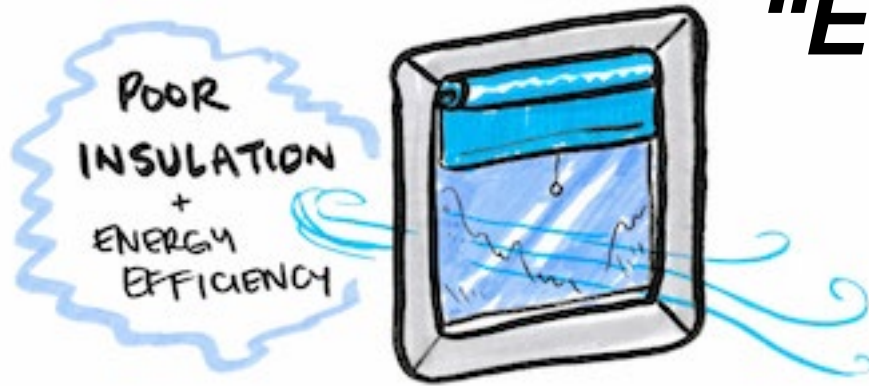
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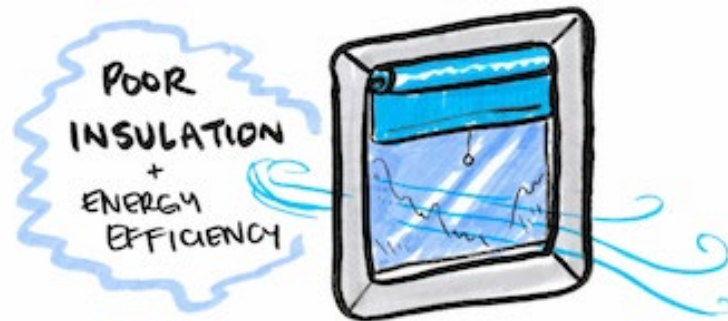
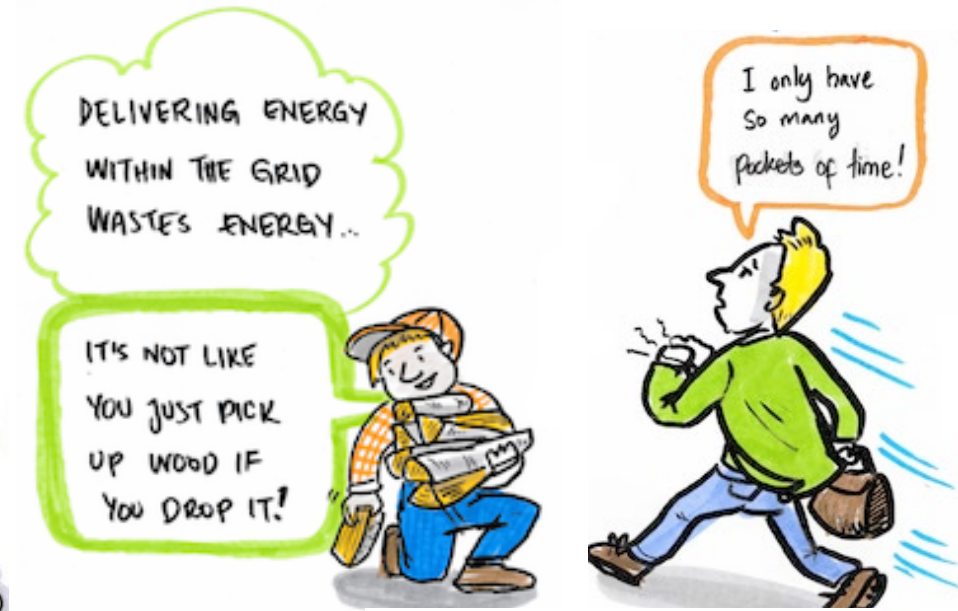
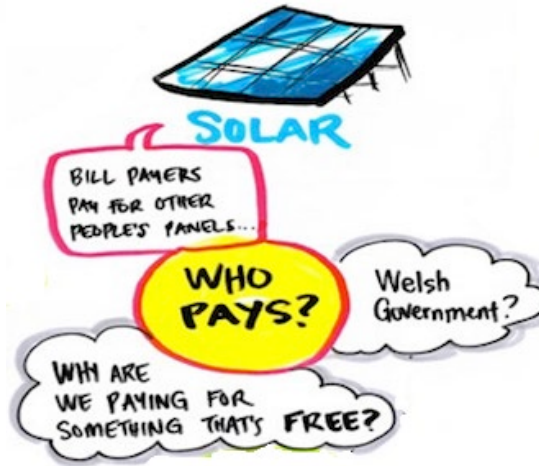
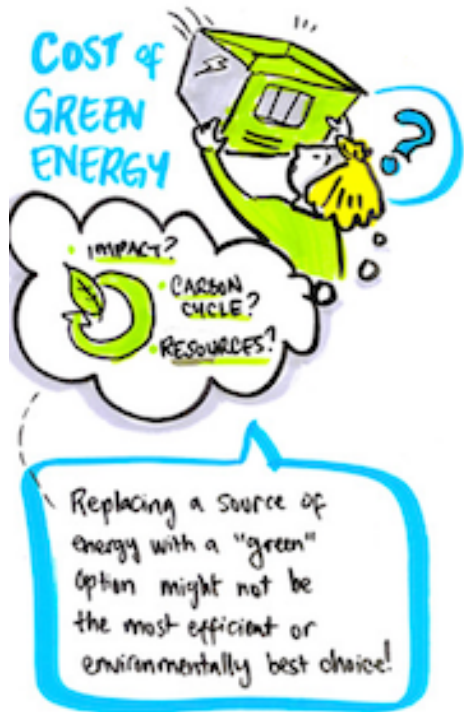
“Positioning”



"Embodied Energy"



Next Steps...



Acknowledgements



Bristol
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research fund



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