

What is the FIT trying to achieve?



What are the drivers?

- = Climate Change Act $80\%~\mathrm{CO}_2$ reduction by 2050, 34% by 2020
- Renewables Obligation & EU Directive 15% UK renewable energy (>2% now), of which 35%ish via grid by 2020 (5.6%now)
- PPS1 Supplement: Planning & Climate Change
 MITIGATION: Plan for development to reduce climate change and ADAPTATION: development that survives it when it happens

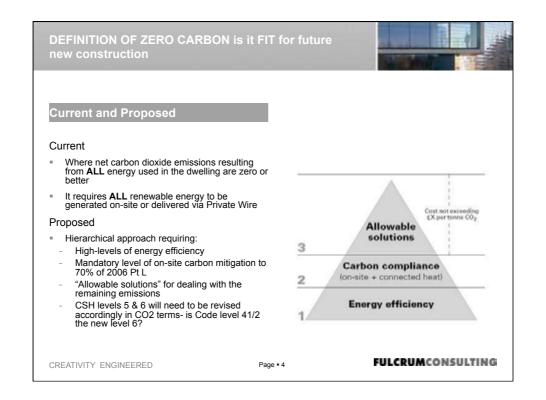


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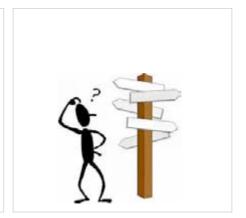
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LEGALLY BINDING FUTURE RENEWABLE ENERGY TARGETS 15% in 2020, 2% now Is it a FIT way to achieve these herculean targets?				
Sector Targets in GW Built environment areas in green	2007	2012	2020	
Onshore Wind Offshore Wind	2 0.3	4	13 18	
Large scale Biomass/SRF CHP Built Environment	0.6	3.7	16 5	
Wave and Tidal	_	0.07	0.35	
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- Carbon compliance beyond the minimum standard up to 100% of total energy
- Energy efficient appliances or advanced controls systems
- Exporting LZC heat/cooling to existing properties
- Section 106 Planning Obligations
- Retrofitting EE measures to existing stock
- Investment in LZC energy infrastructure (within UK and with 'benefits of ownership' passed to purchaser)
- Off-site renewable electricity via 'direct physical connection'
- Any other measures that Government might in future announce as being eligible



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NOT MANY URBAN MICROGENERATION OPTIONS





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SOLAR THERMAL

Pricey in terms of £/Kg CO2 saved but probably worth it but RHI not FIT

GROUND SOURCE COOLING/ HEATING

On balance it's a good idea but again its RHI

WIND TURBINES

Generally not good enough wind in the towns and cities where 80% of us live, go large where FIT =ROCs anyway!!

PHOTOVOLTAIC CELLS

Not enough roof or money and if you wanted a solar power station I can't think of a more expensive way of exporting 90% of the power

BIOMASS/WASTE

Central rather than small plant for better

audit/control of emissions why a one off bet on FIT? For something so important

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Feed in Tariff - some financial issues



- No "deeming" so it wont help development finance where the developer pays, the buyer gets the income but still doesn't want to pay the value of a low carbon home or building
- No "deeming" so the capital starved poor will rarely be able to afford the microgeneration equipment- they don't own the roofs above them even if they could raise the money
- But energy supply tariffs will rise to pay for FIT so the fuel poor will pay for the middle classes to make a few bob and have something to talk about at dinner parties (ok- same problem for ROCs except for the dinner parties)
- If government sees this argument as a reason to reduce ROC support we will disrupt the most efficient scale of renewables

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Feed in Tariff - some technical issues



- FIT is an incentivisation mechanism until 2037 and then it will be gone are we really sure that we want the fuel poor to support Chinese PV manufacturing jobs till then, we waited too long, Germany didn't and now has a FIT driven PV industry.
- By 2037 we are going to be warmer not brighter so why is PV such a good idea for the UK anyway where large scale off-shore wind and marine renewables can have some of the highest yields in the world
- I fully support the FIT separation between energy generation and grid export at 5p/Kwh, but smart meters are coming to everyone by 2020- why force the provision of export meters before then, it's a waste of money, effort and carbon in making and installing

them? Thank You

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