

Bristol Local Plan Review 2019

- [Bristol Energy Network](#) Initial Response

Energy Issues & Local Resilience - 1

- Passive House (**for all its reasons, see subsequent [slide](#)**) : Support Going Beyond Building Regulations (It's noted Local Plan seeks to improve on Building Regs in certain criteria, e.g. DM12, etc.)
 - New Build;
 - Renovation — overwhelming issue for social as well as private stock to raise to near EnerPHit
- Wind Allocation (for us: Avonmouth / Severnside); Solar Allocation (for us A'mouth / S'side);
 - Important recent (2017) ALW-UCEF Study, “Consenting On-Shore Wind” (Used recently, eo-2017, to win planning consent for wind turbine in Avonmouth, [see](#) §7.1.10, & policies BCS14 and BCS4) Ref: [David Tudgey](#), of ALW, or via the [Centre for Sustainable Energy](#) “Proposal RES 1: Meeting more of development’s energy needs sustainably”
 - Support should be indicated for wind-turbines with maximum tip height greater than the current accepted maximum (120 metres) in Avonmouth where there is strong community support and community benefit (Proposal EC1)
 - Further consideration should be given to designating areas for on-shore wind beyond Avonmouth where there is community interest and benefit. This should include at least Withywood & Hartcliffe Neighbourhood Planning Area (Dundry slopes), & Lockleaze (Raised by [Bristol Energy Network](#))
- Support sustainable community production-consumption models, developer negotiated tariffs, private-wire etc., local energy clubs, and micro-grids that are local-resident community owned & governed

Energy Issues & Local Resilience - 2

- “Proposal RES 2: Updating the approach to heating systems“
- Encourage the establishment of neighbourhood / street level community “Energy Centres”
- Fostering Development of Renewables:
 - Especially the Avonmouth Thermal Grid for adjacent developments (e.g. LW NDP);
 - Solar on Roofs;
 - District Heating & mini-DH (Domestic Hot Water):
 - Development of Ground & Water Sourced Heat (BGS informal Report for BCC — a favourable area in principle?)
- A major current example [here](#)

Development of New Housing 1

- Passive House (& EnerPHit) not necessarily certified BUT need to achieve quality of construction
 - Huge domestic heating impact (so lower running/living costs) BUT ALSO
 - Summer cooling (see Resilience & Policy BCS13 “... climate change mitigation ...”)
 - High Internal Air Quality
 - High Acoustic Insulation
 - Social Cohesion: Neighbour-Neighbour & to OutSideWorld
 - Internally More Liveable - Lower Stress
 - Uplift in Local Skills —
 - Diffuse Skills & Knowledge - Necessary Skills More Widely Available; Craftsmanship - Enhancing Respect / Self-Respect / Personal Confidence;
 - More Valuable Workforce
 - Social Cohesion
 - Commitment to Housing, Area, & its Upkeep
 - Enhanced Pride & Self-Respect by & in Community
- Not necessarily certified BUT need to achieve quality of construction

Development of New Housing 2

- To ensure the multiple benefits of improved building quality requirements are actually realized, developers & renovators should be required to demonstrate energy savings on an 'As-Built' basis as opposed to approval from design; As routine planning condition.
 - [BEN CHEESE](#) surveys, both in Lawrence Weston and across the city, have shown that housing upgrade work is routinely poorly executed. See CHEESE case studies [here](#). There is every expectation from UK-wide experience that new builds, even 'eco-builds', can suffer similarly, E.g. See [Building Energy Performance Improvement Toolkit](#).
- Master-Planning New Build to cover Regeneration:
 - Need to for New Build to Uplift Embedded Locale : Henacre Example for Social Cohesion
- Use the Green Belt intelligently
 - As originally intended
 - Rather than disrupt existing communities;
 - BUT, ensure transport & facilities (our NPG submission, as I remember);
- Green Space Must be Actively Designed
 - Vitally Necessary to Create Communities
 - Offsetting High Density Housing
 - Reducing Maintenance, Abuse & Increasing Sociability & Mutual Support

Proposal RES 1: Meeting More Of Development's Energy Needs Sustainably

- Reinforce the potential pipeline of carbon saving projects that could deliver off-site savings, a wide selection of community examples can be found through the Bristol Energy Network, [here](#).
- Fuel poverty initiatives and community renewable projects should all, potentially, be funded by allowable-solutions contributions, and would deliver significant social benefits, plus carbon savings, plus help stimulate our low carbon economy.
- The [BCEF](#) project could be worked up into one way of spending and monitoring delivery on renewable energy allowable solutions.
- Allowable-solutions charges should be high enough that developers don't choose to just pay it and do nothing on site

Air Quality

- Note, industrial air pollution from the Avonmouth industrial area is a community issue for more than the immediate Avonmouth community.
 - Frequently raised issue in Lawrence Weston
 - Will also be noted in Shirehampton.
- It should be a planning condition that the developers fund AQ monitoring wherever there is a suggestion that AQ can be affected significantly either by the development itself, or the built facility once completed.
 - This should be done for as long as is necessary to establish the situation, alongside necessary remedial measures, in all relevant weather conditions
 - Make it so expensive for developers not to consider allowable solutions
 - Support roll out of community electric car points, car clubs, electric bikes
 - Support local low carbon sustainable infrastructure and improve transport connectivity such as bike cycle paths, & low carbon public transport

General

- Community energy activities — from home energy efficiency measures through local transport, building performance surveys, to small and large scale renewable energy generation and storage — have huge land use implications and impact
- The Local Plan would benefit greatly from having a section specifically addressing Community Energy
- The ALW-UCEF Study, “Consenting On-Shore Wind” (Used recently, 2017, to win planning consent for wind turbine in Avonmouth, [see](#) §7.1.10, & policies BCS14 and BCS4)
Is available from
 - [David Tudgey](#), of [Ambition Lawrence Weston](#) & [BEN](#); or,
 - Via the [Centre for Sustainable Energy](#)