



# Sustenic Stock Profiles

## Craven District Council

### Case Study

### September 2022

## Providing the evidence to lever funding

Using open data sources and in-depth knowledge of the national housing stock, the Sustenic Stock Profiles provide the evidence required to develop and move forward with local energy plans

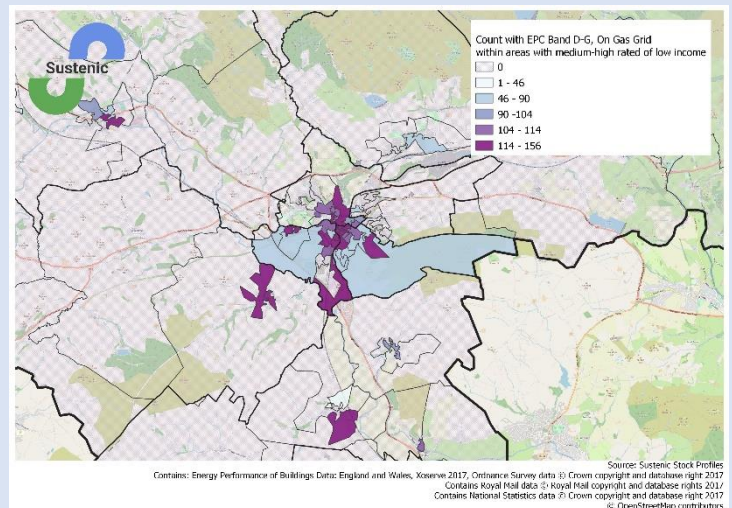
The data can be combined to provide the evidence required for funding streams such as LAD and HUG

## Cutting through the complex data to get to the information required

Piecing together housing data is not simple. We have developed programs with industry experts to extract the critical information in a useable format

### LAD targeting

- Dwellings with EPC Band D-G
- On the gas grid
- Areas of low income



Ward	Percentage of Dwellings Below EPC Band C	Dwelling Count Below EPC Band C	Loft Insulation required	Window Glazing upgrade required	Cavity Wall Insulation required	Stone Wall insulation required	Other Wall Type insulation required	Heating System upgrade required	Off Gas Heating System upgrade required
Aire Valley with Lothersdale	71%	1,334	684	250	290	661	10	445	259
Barden Fell	33%	622	303	213	78	376	6	541	511
Bentham	70%	1,312	628	320	217	595	21	413	166
Cowling	39%	738	420	96	109	472	4	195	69
Embsay-with-Eastby	36%	666	386	136	206	236	12	82	17
Gargrave and Malhamdale	63%	1,190	603	384	219	578	11	601	437
Glusburn	79%	1,480	906	165	428	636	12	190	19
Grassington	38%	714	370	181	153	363	3	323	122
Hellifield and Long Preston	35%	661	355	156	108	358	23	104	32
Ingleton and Clapham	77%	1,437	630	347	199	716	32	903	721
Penyghent	36%	682	329	192	144	307	24	401	323
Settle and Ribblesbanks	68%	1,271	619	375	183	708	43	454	263
Skipton East	69%	1,300	725	168	695	75	8	228	15
Skipton North	74%	1,385	828	374	211	650	97	225	48
Skipton South	78%	1,454	796	153	217	737	166	227	22
Skipton West	76%	1,421	794	175	197	798	13	327	88
Sutton-in-Craven	62%	1,162	724	163	355	507	6	200	53
Upper Wharfedale	38%	708	378	182	80	328	64	444	336
West Craven	36%	676	352	180	107	428	8	265	179

Comparing areas quickly is essential for planning and engaging with Stakeholders

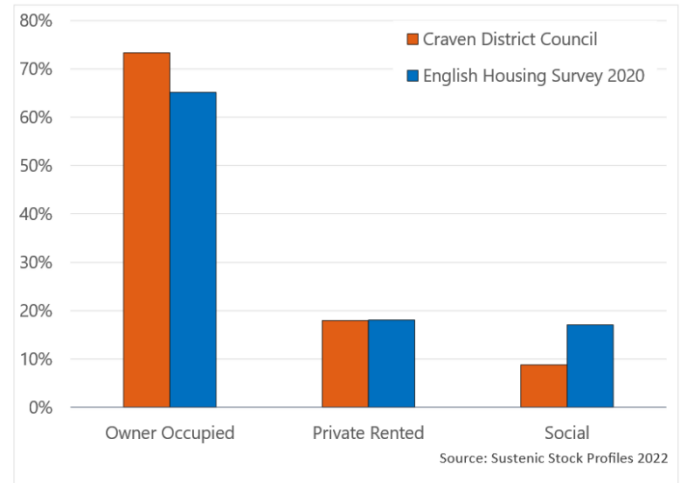
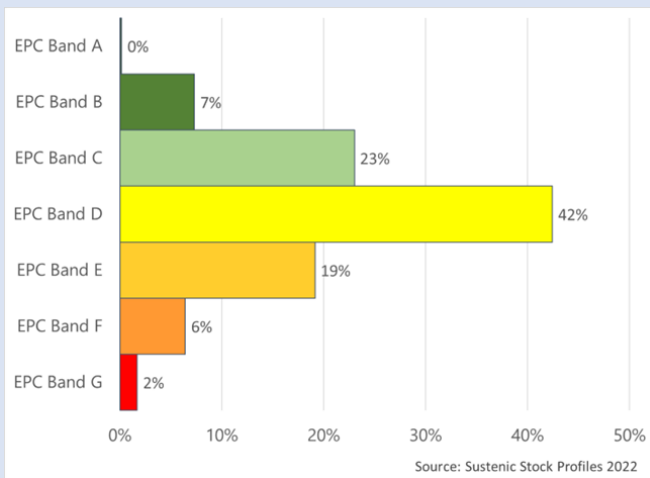
Developed at dwelling level the information can be aggregated to suit individual requirements

# Understanding how local housing stock characteristics impact the retrofit needs

The project for Craven found that the average energy efficiency rating in Craven is lower than the national average

The housing stock is older, has more energy inefficient housing types and fewer flats than the national averages

Owner occupancy is also higher than nationally, and the proportion of social dwellings is lower



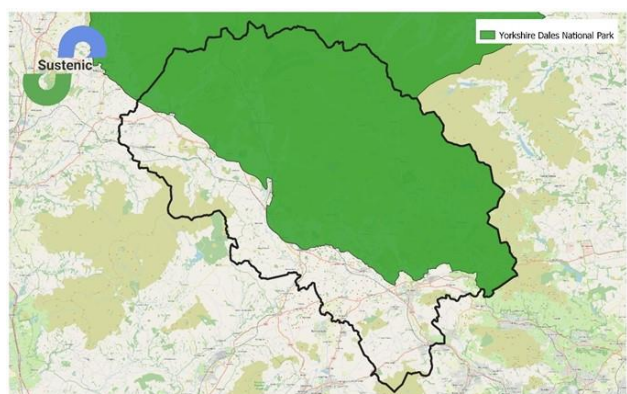
Dwelling Type	Number of Dwellings	Per cent
Detached	7,011	24%
Semi-Detached	7,418	26%
Mid Terrace	7,174	25%
End Terrace	3,889	13%
Flat	3,368	12%
Park Home	139	0%
<b>All Dwellings</b>	<b>28,999</b>	-

These are contributing factors to the low average energy efficiency rating in Craven

## Highlighting the Challenges

41% of the housing stock in Craven was identified as having stone walls, with less than 15% of these having wall insulation. Decarbonising these types of homes is challenging and costly.

Craven also has over a quarter of the housing stock within the Yorkshire Dales National Park. Understandably stricter planning restrictions apply in National Parks but this adds to the complexities of decarbonising housing in these areas



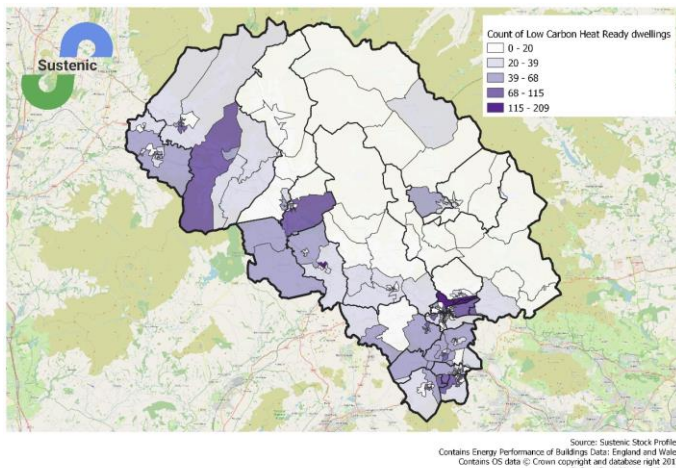
# Forward planning

## Low Carbon Heat Ready

To be able to meet the net zero targets set by Government, the way homes are heated in the future will need to be through low carbon heating systems, for example heat pumps

For these heating systems to be effective, the building fabric of a dwelling needs to be energy efficient i.e. keeping heat demand to a minimum. This analysis focused on four insulation measures; multiple glazing, loft insulation, wall insulation and floor insulation

In Craven 21% of dwellings have all four of the measures included in the analysis and are therefore potentially Low Carbon Heat Ready



In 79% of dwellings one or more of these measures is missing or inadequate. Retrofitting insulation to these dwellings to reduce the heat demand would be advised before low carbon heating systems are considered

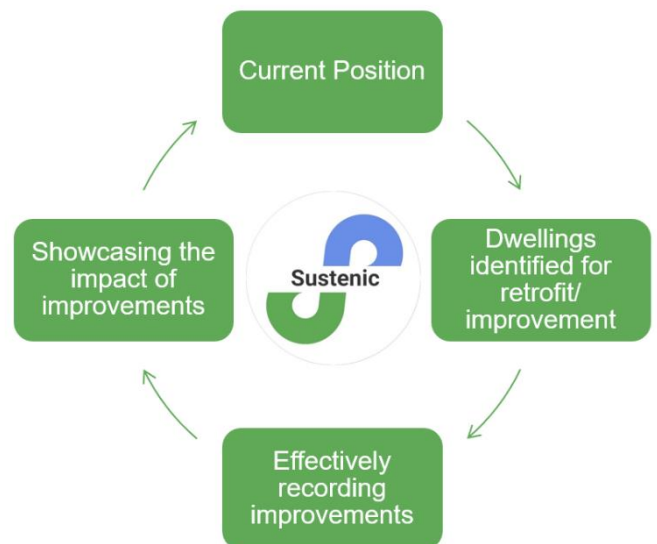
The figures provided on each measure and the combination of measures required can be used to support action plans, for retrofit costs analysis and to draw attention to the resourcing necessary to implement the energy efficiency improvements

## Keeping the data live!

The Sustenic Stock Profiles have been developed with current and existing data needs in mind

Updating the data regularly ensures the information required is there ready to go when you need it!

This creates a data cycle, allowing identification of need, tracking progress and showcasing the impact of improvements to be undertaken any time



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