

Community Energy Saving Programme Illustrative Mix

Carbon saving measure	Single Measure				Whole Policy																
	Number of measures (CESP)	Cost of measures	Indirect (admin & search) costs	Total cost	Approximate % of cost met by the energy company (measure)	Approximate % of cost met by the energy company (admin)	Cost to the energy company (measure)	Cost to the energy company (admin)	Comfort factor in CESP	Individual annual kgCO2 saving with CESP comfort	Lifetime (years)	Individual lifetime tCO2 saving (before uplifts)	Approximate annual bill savings £	Annual value of bill savings	Total cost (measures)	Annual carbon dioxide savings (net of comfort taking, mtCO2/yr)	Lifetime carbon dioxide savings (net of comfort taking, mtCO2)	Cost to save t1CO2 (£/tCO2)	CESP Uplift (score multiplier)	Cost effectiveness (kg CO2 score per £ spent)	Cumulative whole house uplift provided by measure
Cavity wall insulation	10,000	356	87	443	90%	50%	321	43	40%	448	40	17.9	127	£1,270,000	3.56	0.004	0.179	18	50%	28	10%
Loft insulation (prof virgin)	8,000	268	70	338	90%	50%	241	35	40%	251	40	10.1	72	£574,400	2.14	0.002	0.080	24	50%	21	10%
Loft insulation (prof top-up)	40,000	268	70	338	90%	50%	241	35	40%	87	40	3.5	72	£2,872,000	10.72	0.003	0.139	69	50%	7	10%
SWI external (flat)	14,000	3,600	258	3,858	90%	50%	3,240	129	40%	520	30	24.6	445	£6,230,000	50.40	0.011	0.344	132	300%	23	50%
SWI external (semi-det house)	13,000	6,300	285	6,585	90%	50%	5,670	142	40%	1,560	30	46.8	445	£5,785,000	81.90	0.020	0.608	121	300%	25	50%
SWI internal to U of 0.46W/m2K	15,000	3,500	257	3,757	90%	50%	3,150	126	40%	1,475	30	44.3	420	£6,208,000	52.50	0.022	0.664	71	300%	42	50%
Fuel Switching	5,000	3,888	262	4,150	90%	50%	3,499	131	0%	4,220	20	84.4	694	£3,470,000	19.44	0.021	0.422	41	100%	24	40%
Heating controls - upgrade with new heat system	20,500	84	26	110	90%	50%	76	13	0%	35	12	0.4	6	£123,000	1.73	0.001	0.009	181	100%	6	10%
Community heating meters	10,000	200	55	255	90%	50%	180	28	0%	431	15	6.5	100	£1,000,000	2.00	0.004	0.065	28	100%	36	10%
Existing community heat to CHP	10,000	701	136	837	50%	50%	351	68	0%	685	30	20.6	64	£640,000	7.01	0.007	0.206	17	150%	88	40%
Electric to community CHP	5,000	7,124	289	7,413	50%	50%	3,562	145	0%	3,107	30	93.2	914	£4,570,000	35.62	0.016	0.466	38	150%	39	40%
Wood pellet boilers (primary)	0	7,110	289	7,399	90%	50%	6,399	145	0%	5,192	20	103.8	330	£0	0.00	0.000	0.000	62	150%	24	40%
Solar Water Heater (4m²)	700	3,500	257	3,757	90%	50%	3,150	128	0%	326	25	8.1	57	£39,900	2.45	0.000	0.006	387	150%	4	10%
Air source heat pump	5,000	5,844	282	6,126	90%	50%	5,260	141	0%	3,076	15	46.1	443	£2,213,712	29.22	0.015	0.231	114	150%	13	50%
Ground source heat pumps	1,000	10,295	301	10,596	90%	50%	9,286	150	0%	2,204	40	88.2	474	£474,000	10.30	0.002	0.088	105	150%	14	50%
Micro Wind (1 kWp, 1% LF)	0	3,200	251	3,451	90%	50%	2,880	126	0%	38	10	0.4	105	£0	0.00	0.000	0.000	7579	100%	0	10%
Mini-wind 5 kW, 20% LF	0	21,000	315	21,315	90%	50%	18,900	158	0%	3,777	23	85.0	1066	£0	0.00	0.000	0.000	222	100%	4	10%
Micro Hydro (0.7kWp, 50% LF)	0	1,890	216	2,106	90%	50%	1,701	108	0%	1,322	20	26.4	368	£0	0.00	0.000	0.000	64	100%	16	10%
Photovoltaic panels (2.5 kWp)	50	9,375	298	9,673	90%	50%	8,438	149	0%	911	25	22.8	254	£12,700	0.47	0.000	0.001	370	100%	3	10%
mCHP (revised)	50	563	119	681	90%	50%	506	59	0%	210	15	3.2	128	£5,400	0.03	0.000	0.000	161	150%	9	10%
Replacing old boiler (65% by 88.3%)	13,500	2,500	236	2,736	90%	50%	2,250	118	0%	1,610	12	19.3	70	£941,625	33.75	0.022	0.261	116	150%	13	40%
HEA	100,000	45	14	59	90%	50%	41	7	0%	90	7.5	0.7	17	£1,660,000	4.50	0.009	0.068	60	100%	17	
Underfloor insulation	1,000	800	147	947	90%	50%	720	73	40%	217	10	2.2	50	£50,000	0.80	0.000	0.002	331	100%	3	10%
Glazing E to C rated	1,000	200	55	255	90%	50%	180	28	40%	71	20	1.4	16	£16,000	0.20	0.000	0.001	128	100%	8	10%
Flat roof insulation (whole house)	500	1,500	198	1,698	90%	50%	1,350	99	40%	87	40	3.5	25	£12,500	0.75	0.000	0.002	389	100%	3	10%
Draughtproofing (ie not with glazing)	1,000	100	30	130	90%	50%	90	15	40%	101	10	1.0	29	£29,000	0.10	0.000	0.001	89	100%	11	10%
														<b>£38,290,237</b>	<b>349.59</b>	<b>0.161</b>	<b>3.842</b>				