

Energy Companies Obligation (ECO)

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ECO2t Smart Thermostat Deemed Scores

Background

In September 2018, we approved an application for deemed scores (cost scores) for the installation of smart thermostats. These scores can be claimed when a smart thermostat which meets the criteria in the Boiler Plus standard is installed.

This note sets out the deemed scores and the requirements for claiming the scores.

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Outline of the deemed scores

There are three sets of deemed scores associated with this application:

Measure description	Measure type for notification
Smart thermostat (pre-existing programmer and room Thermostat)	Smarttherm_[walltype]_preP&RT
Smart thermostat (no pre-existing programmer or room thermostat)	Smarttherm_[walltype]_nopreP&RT
TRV	TRV_[walltype]_smarttherm

Two are smart thermostat scores covering different installation scenarios: the first should be claimed where a smart thermostat is installed in a property which, prior to installation, has a standard programmer and room thermostat. The second should be claimed if the property does not currently have a programmer or room thermostat.

The TRV (smart thermostat) score can only be claimed when fitting TRVs alongside a smart thermostat installation or when installing TRVs in a property with a pre-existing smart thermostat, such that the property is left with a full set of heating controls.

The standard heating controls score remains valid, but can no longer be claimed where a property has or is receiving a smart thermostat.

The table below sets out various scenarios and the scores which should be claimed in each.

Requirements for claiming the deemed scores

Smart thermostats must meet the criteria set out in the Boiler Plus Standard¹. That is, they must incorporate *automation* and *optimisation*.

Automation means a control function which automatically adjusts time and temperature settings based on occupancy detection and/or stored data from user adjustments over time.

Optimisation means a control function which starts the boiler operation at the optimum time to achieve the setpoint temperature at the start of the occupancy period.

The following table summarises which scores may be claimed based on the heating controls present pre-installation and post-installation.

	Pre installation heating controls	Post installation heating controls	Score(s) to be claimed
1	Incomplete/none	Full standard heating controls	Heating controls score
2	Full standard heating controls	Smart thermostat with full TRVs	Smart thermostat pre P&RT score
3	Incomplete/none	Smart thermostat with full TRVs	Smart thermostat no pre P&RT + TRV scores
4	Programmer and room thermostat, incomplete/no TRVs	Smart thermostat with incomplete or no TRVs	Smart thermostat pre P&RT score
5	No programmer or room thermostat, incomplete/no TRVS	Smart thermostat with incomplete or no TRVs	Smart thermostat no pre P&RT score
6	Smart thermostat with incomplete TRVs	Smart thermostat with full TRVs	TRV score

¹

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/651853/Boiler_Plus_final_policy_and_consultation_response.pdf

Deemed scores tables

Measure:	Smart Thermostat pre P&RT
Property Wall Type:	Solid Wall

Relevant HHCRO Multiplier	1
Lifetime	12

Property Type	Bedrooms	Gas boiler	Oil boiler	LPG boiler	Solid fossil fuel boiler	Electric boiler
3 ext. Wall Flat	1	332	389	627	526	444
3 ext. Wall Flat	2	426	498	803	664	567
3 ext. Wall Flat	3+	515	602	971	795	683
2 ext. Wall Flat	1	255	298	481	398	344
2 ext. Wall Flat	2	331	387	624	509	443
2 ext. Wall Flat	3+	405	474	764	618	541
End-terrace	1	477	558	899	772	632
End-terrace	2	575	672	1084	915	760
End-terrace	3	671	785	1266	1063	886
End-terrace	4	883	1033	1666	1405	1161
End-terrace	5+	1154	1350	2177	1848	1514
Mid-terrace	1	317	371	598	500	424
Mid-terrace	2	389	455	733	604	518
Mid-terrace	3	460	538	868	711	611
Mid-terrace	4	614	718	1158	951	811
Mid-terrace	5+	811	948	1530	1262	1068
Semi-detached	2-	563	658	1062	890	745
Semi-detached	3	642	751	1211	1007	848
Semi-detached	4	871	1019	1643	1364	1146
Semi-detached	5+	1147	1342	2164	1817	1506
Detached	2-	879	1028	1657	1397	1156
Detached	3	972	1137	1833	1539	1278
Detached	4	1193	1396	2252	1875	1567
Detached	5	1598	1869	3015	2507	2094
Detached	6+	2060	2410	3887	3262	2695
Bungalow - semi detached & end terrace	1	379	444	716	606	505
Bungalow - semi detached & end terrace	2	452	528	852	714	600
Bungalow - semi detached & end terrace	3+	599	701	1130	934	792
Bungalow - mid terrace	1	300	351	566	473	402
Bungalow - mid terrace	2	360	422	680	562	481
Bungalow - mid terrace	3+	485	567	915	747	644
Bungalow - detached	2-	682	798	1287	1087	900
Bungalow - detached	3+	898	1050	1694	1422	1181
Maisonette 3 ext. Wall	2-	587	687	1107	928	777
Maisonette 3 ext. Wall	3+	719	841	1356	1123	949
Maisonette 2 ext. Wall	2-	447	523	843	695	595
Maisonette 2 ext. Wall	3+	554	648	1044	851	734

Measure:	Smart Thermostat pre P&RT
Property Wall Type:	Cavity Wall

Relevant HHCRO Multiplier	1
Lifetime	12

Property Type	Bedrooms	Gas boiler	Oil boiler	LPG boiler	Solid fossil fuel boiler	Electric boiler
3 ext. Wall Flat	1	194	227	367	302	265
3 ext. Wall Flat	2	257	301	485	393	348
3 ext. Wall Flat	3+	321	376	606	486	432
2 ext. Wall Flat	1	166	194	314	258	228
2 ext. Wall Flat	2	223	261	420	340	303
2 ext. Wall Flat	3+	282	329	531	425	380
End-terrace	1	280	328	529	440	376
End-terrace	2	348	407	657	539	466
End-terrace	3	414	484	781	636	551
End-terrace	4	547	640	1033	843	725
End-terrace	5+	721	843	1360	1114	951
Mid-terrace	1	221	259	417	346	300
Mid-terrace	2	277	324	522	426	373
Mid-terrace	3	332	388	626	506	445
Mid-terrace	4	446	521	841	679	593
Mid-terrace	5+	595	696	1123	910	787
Semi-detached	2-	348	407	657	536	466
Semi-detached	3	404	473	763	619	539
Semi-detached	4	561	657	1059	856	744
Semi-detached	5+	741	867	1399	1138	978
Detached	2-	512	598	965	785	679
Detached	3	576	674	1086	881	763
Detached	4	732	856	1381	1113	967
Detached	5	1008	1179	1902	1531	1327
Detached	6+	1306	1527	2463	1995	1714
Bungalow - semi detached & end terrace	1	271	317	511	424	364
Bungalow - semi detached & end terrace	2	327	383	617	507	438
Bungalow - semi detached & end terrace	3+	447	523	844	686	595
Bungalow - mid terrace	1	239	280	451	373	323
Bungalow - mid terrace	2	290	339	546	447	389
Bungalow - mid terrace	3+	399	467	752	608	532
Bungalow - detached	2-	459	537	866	712	610
Bungalow - detached	3+	614	719	1159	946	813
Maisonette 3 ext. Wall	2-	321	376	606	493	431
Maisonette 3 ext. Wall	3+	406	475	767	617	543
Maisonette 2 ext. Wall	2-	268	313	505	410	362
Maisonette 2 ext. Wall	3+	343	402	648	519	461

Measure:	Smart Thermostat no pre P&RT
Property Wall Type:	Solid Wall

Relevant HHCRO Multiplier	1
Lifetime	12

Property Type	Bedrooms	Gas boiler	Oil boiler	LPG boiler	Solid fossil fuel boiler	Electric boiler
3 ext. Wall Flat	1	1540	1866	2821	1444	2063
3 ext. Wall Flat	2	1945	2340	3584	1835	2647
3 ext. Wall Flat	3+	2329	2789	4307	2204	3198
2 ext. Wall Flat	1	1264	1540	2301	1163	1697
2 ext. Wall Flat	2	1587	1920	2911	1469	2156
2 ext. Wall Flat	3+	1901	2287	3503	1766	2601
End-terrace	1	1931	2322	3562	1827	2485
End-terrace	2	2416	2891	4474	2318	3227
End-terrace	3	2825	3370	5245	2723	3813
End-terrace	4	3552	4220	6616	3447	4746
End-terrace	5+	4407	5218	8230	4303	5811
Mid-terrace	1	1485	1798	2719	1391	1990
Mid-terrace	2	1800	2168	3314	1690	2446
Mid-terrace	3	2102	2522	3882	1981	2874
Mid-terrace	4	2705	3228	5021	2577	3705
Mid-terrace	5+	3441	4088	6410	3319	4716
Semi-detached	2-	2424	2900	4489	2324	3274
Semi-detached	3	2773	3309	5146	2665	3782
Semi-detached	4	3663	4350	6824	3548	5009
Semi-detached	5+	4580	5422	8556	4483	6191
Detached	2-	3547	4216	6607	3449	4760
Detached	3	3945	4681	7356	3848	5338
Detached	4	4873	5766	9105	4767	6666
Detached	5	6398	7549	11982	6297	8768
Detached	6+	7952	9365	14916	7881	10784
Bungalow - semi detached & end terrace	1	1674	2020	3078	1582	2219
Bungalow - semi detached & end terrace	2	1986	2385	3665	1886	2666
Bungalow - semi detached & end terrace	3+	2610	3115	4841	2491	3554
Bungalow - mid terrace	1	1416	1717	2592	1320	1894
Bungalow - mid terrace	2	1671	2015	3072	1562	2254
Bungalow - mid terrace	3+	2187	2619	4046	2055	2980
Bungalow - detached	2-	2785	3320	5172	2681	3701
Bungalow - detached	3+	3643	4325	6791	3540	4908
Maisonette 3 ext. Wall	2-	2526	3020	4677	2425	3417
Maisonette 3 ext. Wall	3+	3103	3698	5766	2993	4263
Maisonette 2 ext. Wall	2-	2045	2457	3772	1933	2796
Maisonette 2 ext. Wall	3+	2491	2980	4616	2364	3437

Measure:	Smart Thermostat no pre P&RT
Property Wall Type:	Cavity Wall

Relevant HHCRO Multiplier	1
Lifetime	12

Property Type	Bedrooms	Gas boiler	Oil boiler	LPG boiler	Solid fossil fuel boiler	Electric boiler
3 ext. Wall Flat	1	1009	1240	1828	904	1325
3 ext. Wall Flat	2	1272	1546	2323	1146	1689
3 ext. Wall Flat	3+	1536	1855	2822	1393	2058
2 ext. Wall Flat	1	903	1115	1627	797	1178
2 ext. Wall Flat	2	1143	1396	2079	1017	1512
2 ext. Wall Flat	3+	1387	1682	2541	1245	1855
End-terrace	1	1341	1627	2453	1247	1790
End-terrace	2	1624	1958	2988	1508	2183
End-terrace	3	1894	2274	3497	1765	2561
End-terrace	4	2427	2898	4503	2288	3301
End-terrace	5+	3099	3683	5771	2961	4241
Mid-terrace	1	1115	1364	2027	1015	1474
Mid-terrace	2	1351	1640	2472	1231	1804
Mid-terrace	3	1580	1906	2903	1447	2125
Mid-terrace	4	2033	2437	3760	1885	2752
Mid-terrace	5+	2609	3112	4848	2457	3557
Semi-detached	2-	1626	1961	2993	1504	2185
Semi-detached	3	1860	2234	3432	1725	2512
Semi-detached	4	2476	2956	4595	2319	3361
Semi-detached	5+	3169	3765	5902	3015	4329
Detached	2-	2267	2710	4200	2126	3069
Detached	3	2516	3001	4670	2366	3415
Detached	4	3114	3702	5800	2938	4233
Detached	5	4148	4911	7751	3949	5653
Detached	6+	5279	6233	9884	5081	7221
Bungalow - semi detached & end terrace	1	1305	1585	2385	1209	1742
Bungalow - semi detached & end terrace	2	1537	1856	2825	1426	2065
Bungalow - semi detached & end terrace	3+	2025	2428	3746	1888	2742
Bungalow - mid terrace	1	1183	1443	2156	1083	1572
Bungalow - mid terrace	2	1394	1689	2553	1279	1864
Bungalow - mid terrace	3+	1839	2210	3393	1698	2483
Bungalow - detached	2-	2066	2474	3820	1944	2800
Bungalow - detached	3+	2669	3181	4960	2529	3635
Maisonette 3 ext. Wall	2-	1518	1835	2788	1391	2027
Maisonette 3 ext. Wall	3+	1860	2234	3432	1712	2501
Maisonette 2 ext. Wall	2-	1319	1602	2412	1191	1754
Maisonette 2 ext. Wall	3+	1624	1959	2989	1478	2182

Measure:	TRV (Smart Thermostat)
Property Wall Type:	Solid Wall

Relevant HHCRO Multiplier	1
Lifetime	12

Property Type	Bedrooms	Gas boiler	Oil boiler	LPG boiler	Solid fossil fuel boiler	Electric boiler
3 ext. Wall Flat	1	292	336	559	487	864
3 ext. Wall Flat	2	404	466	771	669	1209
3 ext. Wall Flat	3+	532	616	1014	876	1602
2 ext. Wall Flat	1	231	266	442	392	686
2 ext. Wall Flat	2	316	365	602	524	942
2 ext. Wall Flat	3+	416	482	791	680	1243
End-terrace	1	362	419	689	537	1001
End-terrace	2	527	610	1002	834	1530
End-terrace	3	686	796	1304	1093	2012
End-terrace	4	886	1030	1680	1374	2557
End-terrace	5+	1066	1241	2017	1593	3003
Mid-terrace	1	287	332	546	475	844
Mid-terrace	2	385	446	732	634	1143
Mid-terrace	3	497	576	942	811	1479
Mid-terrace	4	677	786	1282	1095	2017
Mid-terrace	5+	866	1007	1639	1389	2574
Semi-detached	2-	536	621	1020	865	1581
Semi-detached	3	680	788	1291	1101	2021
Semi-detached	4	943	1095	1788	1517	2808
Semi-detached	5+	1159	1349	2195	1815	3386
Detached	2-	842	977	1598	1318	2449
Detached	3	980	1138	1860	1550	2878
Detached	4	1277	1484	2420	2043	3804
Detached	5	1685	1962	3190	2687	5031
Detached	6+	2045	2384	3868	3199	6012
Bungalow - semi detached & end terrace	1	333	386	632	529	959
Bungalow - semi detached & end terrace	2	441	512	837	709	1289
Bungalow - semi detached & end terrace	3+	660	768	1251	1064	1956
Bungalow - mid terrace	1	288	334	546	472	840
Bungalow - mid terrace	2	373	434	707	608	1098
Bungalow - mid terrace	3+	546	636	1035	882	1618
Bungalow - detached	2-	654	760	1240	1014	1878
Bungalow - detached	3+	905	1054	1715	1423	2641
Maisonette 3 ext. Wall	2-	538	620	1026	875	1597
Maisonette 3 ext. Wall	3+	725	839	1381	1188	2184
Maisonette 2 ext. Wall	2-	416	480	794	693	1252
Maisonette 2 ext. Wall	3+	552	639	1051	908	1665

Measure:	TRV (Smart Thermostat)
Property Wall Type:	Cavity Wall

Relevant HHCRO Multiplier	1
Lifetime	12

Property Type	Bedrooms	Gas boiler	Oil boiler	LPG boiler	Solid fossil fuel boiler	Electric boiler
3 ext. Wall Flat	1	200	233	377	327	570
3 ext. Wall Flat	2	272	318	513	436	783
3 ext. Wall Flat	3+	359	419	677	569	1038
2 ext. Wall Flat	1	170	199	321	280	483
2 ext. Wall Flat	2	233	272	439	374	667
2 ext. Wall Flat	3+	309	361	584	489	891
End-terrace	1	270	315	509	440	783
End-terrace	2	370	432	697	597	1078
End-terrace	3	477	557	899	764	1394
End-terrace	4	632	740	1193	1011	1863
End-terrace	5+	793	927	1495	1268	2348
Mid-terrace	1	222	259	418	363	636
Mid-terrace	2	295	344	556	475	851
Mid-terrace	3	379	443	715	606	1101
Mid-terrace	4	516	603	973	819	1509
Mid-terrace	5+	665	779	1256	1055	1959
Semi-detached	2-	372	435	702	598	1083
Semi-detached	3	468	547	882	747	1366
Semi-detached	4	651	761	1228	1030	1910
Semi-detached	5+	827	968	1561	1315	2445
Detached	2-	561	655	1057	893	1644
Detached	3	646	755	1218	1025	1897
Detached	4	831	972	1569	1307	2446
Detached	5	1107	1295	2088	1733	3269
Detached	6+	1389	1625	2621	2186	4124
Bungalow - semi detached & end terrace	1	269	314	507	438	780
Bungalow - semi detached & end terrace	2	351	410	662	567	1023
Bungalow - semi detached & end terrace	3+	520	609	982	831	1526
Bungalow - mid terrace	1	245	286	462	399	706
Bungalow - mid terrace	2	316	369	596	510	916
Bungalow - mid terrace	3+	464	542	875	738	1353
Bungalow - detached	2-	506	592	955	815	1489
Bungalow - detached	3+	684	800	1290	1093	2019
Maisonette 3 ext. Wall	2-	336	393	634	539	973
Maisonette 3 ext. Wall	3+	445	521	840	705	1294
Maisonette 2 ext. Wall	2-	276	323	521	443	795
Maisonette 2 ext. Wall	3+	367	429	693	580	1062