

Technical Bulletin

September 2020

Welcome to the ecmk Quarterly Technical Bulletin

In this issue we cover:

- Electric CPSU - How to record in RdSAP
- Central Heating Pump Age
- CPD Uploading & Evidence of Completion
- Land Mark Register & New EPC Format
- SBEM Software for New Registers
- Government Review – Heat in Buildings & Publications
- Retrofit Quality Plan
- PAS2035: Retrofit Training
- Green Homes Grant
- Upcoming Training

Please do contact us if you would like any other subjects to be covered in future bulletins.

Many thanks and we hope you enjoy the bulletin.

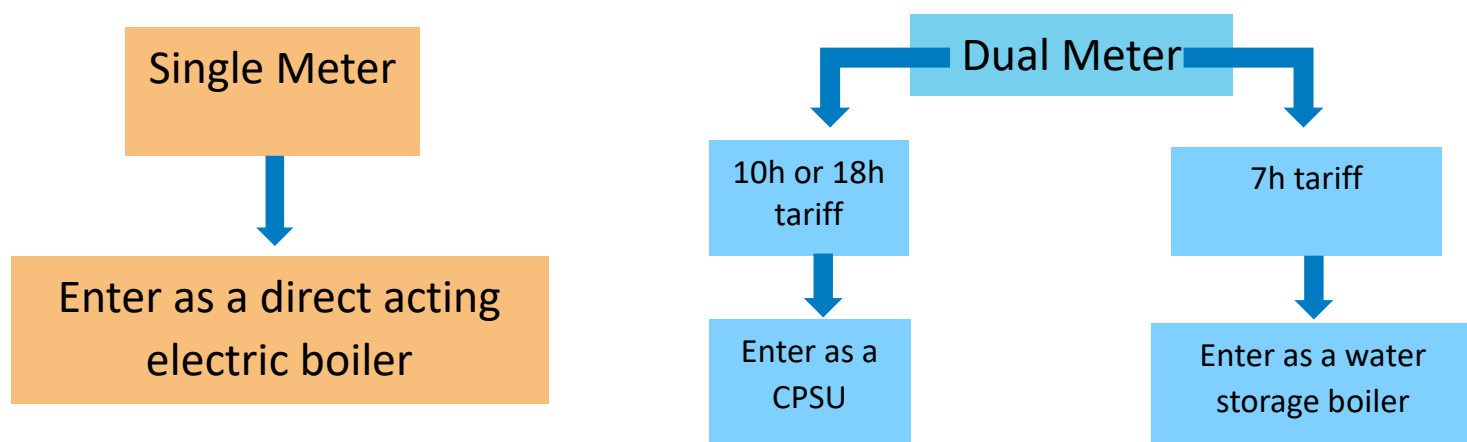
Stephen Farrow
Scheme Manager

How to record Electric CPSU in RdSAP

A Combined Primary Storage Unit (CPSU) is a boiler and thermal store built into one unit. It is capable of providing both space and domestic hot water heating and generally uses either a 10-hour or 18-hour tariff.

An electric CPSU is a central heating system which provides space and domestic water heating. Primary water which is heated mainly or entirely during low-rate periods is stored in a thermal store. It can use the electric on a 10-hour or 18-hour tariff.

The space heating circuit operates in the same way as a wet central heating system, with controls appropriate for wet systems. For domestic hot water, secondary water flows directly from the cold mains into a heat exchanger, where it is heated by the hot water in the store before being delivered to the taps.



Convention #4.15

1	Domestic	24 * 7
2	Domestic	2 –rate with night-time electrical storage and immersion heating
3	Non-domestic	24 * 7
4	Non-domestic	2 –rate with night-time electrical storage heating
5 - 8	Non-domestic	Maximum Demand with load factor of < 20%, 20-30%, 30-40% and >40%

To record an electric CPSU into RdSAP - if not available to select from the PCDF - choose: -

1. System type - *boiler*
2. Type of boiler - *CPSU*
3. Fuel type (electric)

If it uses a 7 hr tariff record as: -

- 'Water storage boiler in heated space'

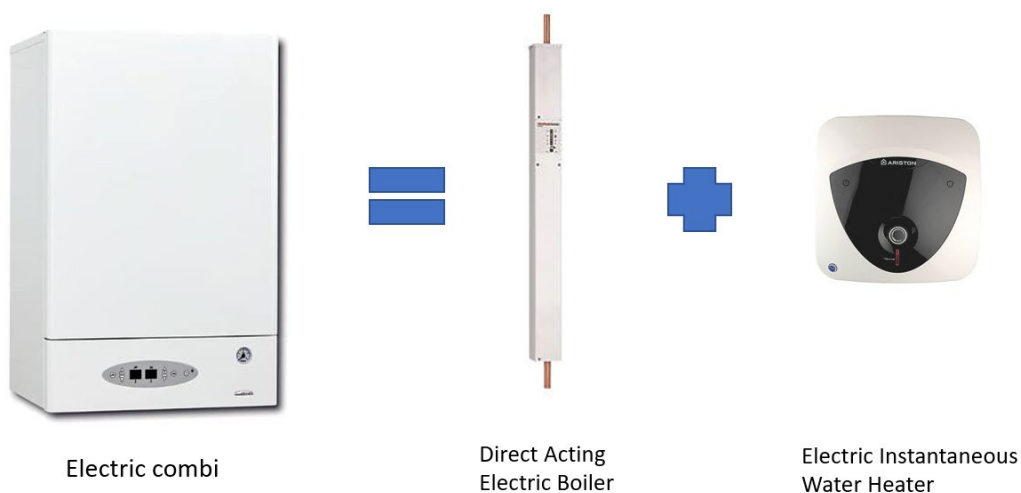
If it uses off-peak electricity record as

- direct-acting electric boiler. Plus *Select addendum 6* Off-peak appliance(s) with single meter

The following txt is added to the EPC.

A dual rate appliance(s) is present with a single-rate supply. A single-rate appliance has been used for the assessment. Changing the electricity tariff to an off-peak (dual rate) supply is likely to reduce fuel costs and improve the energy rating.

How to record Electric Combi in RdSAP



Central Heating Pump Age

Convention 4.18

Separated pump only, not within boiler. Record age as unknown if cannot be seen.

Age is 2013 or later if it has a label stating the EEI (energy efficiency index) or as indicated by date of manufacture from the ID plate; otherwise enter as 2012 or earlier

EA's are reminded of this convention when recording Central Heating Pumps. Please also be aware that no pump will be found or should be recorded if a combination boiler is selected as the main heating system. The pump will only be located near to a cylinder.



Please Note Convention 9.03 Lodgement of Incorrect EPCs

If you lodge an EPC in error and lodge a corrected EPC, inform your accreditation scheme so that the erroneous lodgement can be marked "not for issue".

CPD Uploading & Evidence of Completion

ecmk members are required to attend a minimum of **10 hours** of Continual Personal Development (CPD) per year in order to keep up with this constantly evolving industry. An additional 5 hours is required per additional qualification. For example, a DEA and NDEA will require a minimum of 15 hours per year of CPD.

All ecmk members are also entitled to **4 hours of FREE CPD each year**.

A recent audit of assessor CPD records has highlighted some inconsistencies with members' CPD and the records provided.

Members are reminded that:

- CPD must be relevant to the qualification.
- Any certificates must be uploaded with the claimed hours.
- If the CPD is self-learning or reading, then please use the CPD planner provided on Assessor Hub, ACC-105a, or a brief summary of the learning outcomes should be provided.

Please refer to the following scheme documents:

The Scheme Guidance Document ACC-104

The CPD Policy ACC-403

The CPD Planner ACC-105a

(These can be found on the Scheme Documents Tab on Assessor Hub)

Please check "Upcoming CPD Webinars" - [click here](#)

LandMark Register & New EPC Format

There is to be a radical change in the way we view EPCs and the associated data.

MHCLG have taken control of the register from LandMark and aim to combine the national registers to form a single UK register (excluding Scotland which has its own register).

Until now the operation of the register has been outsourced and run as 4 separate services:

- *England & Wales Domestic Register*
- *England & Wales Non-Domestic Register*
- *Northern Ireland Domestic Register*
- *Northern Ireland Non-Domestic Register*

Rather than re-procure these services as outsourced contracts, The Ministry of Housing, Communities and Local Government (MHCLG) has decided to bring ownership of the register service in-house. We will also consolidate these 4 registers into a single register for England, Wales and Northern Ireland (Scotland still has its own EPC register).

For more information from the MHCLG - [click here](#)

The resulting EPC document is quite different to that which is currently in place.

At present the EPC document is a static PDF detailing the property's energy efficiency rating and current installed measures at the time of inspection by the EA.

The EPC will now be a live, responsive web-based document which will automatically amend with fuel and energy price changes, climate changes and any other NOS (National Occupational Standard) changes or amendments which will ultimately update running costs in real time.

Assessor Hub Updates

New software release for both the Assessor Hub and the iPad coincides with the changes in the EPC format, which are due on September 20th and in line with the new EPC Register system EPCgen v5.6.b

Removal of Digital Certificates

EA's can now add an address directly to the EPC register by using the Assessor Hub's "Add Address" function. This can be used for adding a Domestic Address as well as Non-Domestic Addresses, cutting out the need for Digital Certificates. This will be available as part of the new software update on September 20th.

Please be aware that the address details must be checked before being added to the register to ensure all information is correct, including location and spelling.

SBEM software for new E&W and NI EPC registers

We have been advised by MHCLG that they are now looking at 20th September 2020 as the new go-live date for the new EPC registers for both England & Wales and NI.

They have also advised that the new XML schemas are now finalised, and that no further modifications will be required for the **SBEM v5.6.b** software (which will replace **v5.6.a** once the new E&W register goes live) beyond what has now been implemented in the modules listed below, which are now on the **NCM FTP** site.

The following software modules are now available for **v5.6.b**: **SBEM**, **SBEM_x64**, **BRUKL**, **EPCgen**, **GDRgen**, and **S63gen**, and their associated specification manuals, in the folder: **/NCM/Releases/56b/2020.08.21**.

Please note that **SBEM v5.6.b** maintains the same purposes of analysis which are currently available in **SBEM v5.6.a**, and the energy calculation algorithms are unchanged. However, following the new EPC register's system, **EPCgen v5.6.b** is now not required to communicate with the register's servers in order to generate XML files for EPCs in England and Wales, i.e., there is no need for digital certificates or root CA certificates, etc. Furthermore, the RRNs are now randomly generated in **EPCgen v5.6.b** for E&W EPCs, i.e., they are no longer based on the UPRNs and inspection dates.

Please also note that the XML files generated by **EPCgen v5.6.b** for E&W EPCs can only be lodged on the new register. They cannot be accepted for lodgement on the current EPC register. As such, **EPCgen v5.6.b** should not be released for production of actual EPCs until the new register goes live, once the date has been confirmed by MHCLG.

The software modules, and associated manuals, for **SBEM v4.1.h** (which will replace **v4.1.g** once the new NI register goes live) will be made available on the **NCM FTP** site soon. Although NI still has a separate XML schema from that for E&W, the requirements of the new NI register are identical to those for the new E&W register.

NB: The abovementioned changes in **EPCgen v5.6.b** are irrelevant to the generation of RRNs and XML files for EPCs in Scotland, which remain unchanged from those currently produced by **EPCgen v5.6.a**.

Government information for Heat in Buildings

The Department for Business, Energy & Industrial Strategy is working with stakeholders to save carbon and transform the way we heat our homes and businesses.

Contents:

1. Government priorities
2. What we have done so far
3. What we are doing next

1. Government priorities

The Government is committed to expanding the low carbon economy while hitting our carbon budgets. On 27 June 2019, the UK Government set a legally binding target to achieve net zero greenhouse gas emissions from across the UK economy by 2050. We are now looking at the best ways to cut carbon emissions from heat during the 2020s, thinking about how we can reduce reliance on subsidy. We want to lower the barriers to the take-up of low carbon heating and cooling. We also want to sustain a viable supply chain for heat pumps beyond the Renewable Heat Incentive (RHI), while not closing off options for longer term heat decarbonisation.

There are a variety of technologies with potential to contribute to the transformation necessary to meet 2050 targets – including heat networks, heat pumps, hydrogen and biogas. It is not yet clear which combination of these will work best at scale and keep costs down. Different approaches need to be tested further as we develop a long-term plan that delivers the best solution for consumers.

2. What we have done so far

Empowering consumers

Consumers are becoming increasingly interested in choosing their heating systems and understanding the options to reduce the carbon footprint of their home.

Improving consumer advice

Following the recommendations of the **Each Home Counts Review**, the Government has worked with consumer groups and other partners to develop the **Simple Energy Advice website**, where consumers can find a range of trusted, impartial advice on making their homes warmer, greener, and more energy-efficient as well as information on financial assistance schemes available.

Improving gas boiler standards

We recognise the continuing role of gas heating systems into the 2020s. The **Boiler Plus standards** for domestic boilers, introduced in April 2018, will ensure all households have a reasonable level of choice and control over their heating to enable them to achieve comfort and efficiency without increased bills. Our homes are diverse, and savings will vary from household to household. Those with the highest heating bills currently will make the greatest savings.

For clarification on the Boiler Plus regulations for installers and consumers - [click here](#)

Understanding the energy performance of homes

It is important to have a reliable and consistent method of finding out the energy performance of homes. It means that consumers are informed about how energy efficient their home is and what they might be spending on their energy bills. We are responsible for maintaining and improving the national methodology for this, called **the Standard Assessment Procedure (SAP)**. In 2016, we consulted on changes to make SAP more accurate and in July 2018 the most recent version of SAP (SAP 10) was published. This version of SAP is due to come into force with the updated Part L of the Building Regulations in 2020.

Homes off the gas grid

As announced in the **Clean Growth Strategy**, we intend to phase out the installation of high carbon fossil fuel heating in new and existing buildings in areas off the gas grid, during the 2020s.

The Buildings Mission

The Buildings Mission, the first mission of the **Clean Growth Grand Challenge**, has the objective to at least halve the energy use of all new buildings by 2030.

This will be achieved by:

- making sure every new building in Britain is safe, high quality, efficient and uses clean heating
- innovating to bring down the cost of building low energy, low carbon buildings
- driving lower carbon, lower cost and higher quality construction through innovative techniques
- giving consumers more control over how they use energy through smart technologies
- accelerating a transformation to modern methods of construction in the construction sector

Home of 2030 Design Competition

The Home of 2030 Design Competition was announced in October 2018 by the Department for Business, Energy & Industrial Strategy in a joint venture with the Department of Health and Social Care and Ministry of Housing Communities and Local Government. The design and delivery competition was created to drive innovation in the provision of affordable, efficient and healthy homes for all. Home of 2030 aims to inspire and reward the ambition of housing providers, designers, the supply chain and others to meet the big challenge of future housing needs.

A team led by BRE with the Royal Institute of British Architects, the Design Council and MOBIE (Ministry of Building Innovation + Education) have recently been appointed to work with Government as the competition delivery partner.

Future Homes Standard

A Future Homes Standard, to be introduced by 2025, will require new build homes to be future proofed with low carbon heating and world leading levels of energy efficiency. We propose homes built to this standard should have 75% to 80% fewer CO₂ emissions than those built to current building regulations. We are consulting on a meaningful and achievable increase to energy efficiency standards for new homes to be introduced through Building Regulations in 2020, as a stepping stone for this commitment. The consultation on changes to Part L (conservation of fuel and power) and Part F (ventilation) of the Building Regulations for new dwellings launched on 1 October 2019. The deadline for responses is 10 January 2020.

This consultation will be subject to the conclusions of the **Independent Review of Building Regulations and Fire Safety**, being led by Dame Judith Hackitt.

A further consultation will follow, in the coming months, proposing changes to the energy efficiency standards for non-domestic buildings and for building work to existing homes and non-domestic buildings; and on preventing overheating in buildings.

Electrification of Heat Demonstration Project

The Department for Business, Energy & Industrial Strategy has launched a £16.5 million **Electrification of Heat Demonstration Project**. The project aims to demonstrate the feasibility of a large-scale transition to electrification of heat in Great Britain by installing heat pumps in a representative range of homes, alongside new products and services designed to overcome barriers to deployment. The project is expected to run from October 2019 to March 2022.

3. What we are doing next

We continue to improve the **energy efficiency of new and existing buildings** to reduce heat demand. Following publication of our **Heat in buildings call for evidence**, we plan to consult on regulatory options to phase out the installation of fossil fuel heating systems in off gas grid buildings.

The Government will also be:

- exploring and testing the different approaches to heat decarbonisation, for buildings on and off the gas grid, particularly looking at the role of heat networks, heat pumps, hydrogen and biogas
- accelerating the decarbonisation of our gas supplies by increasing the proportion of green gas in the grid, as announced in the 2019 Spring Statement; we will consult on the appropriate mechanism to deliver this commitment in due course
- improving the way businesses use energy, to support the delivery of our ambition to reduce business energy use by 20% by 2030
- reducing energy demand in industry, through our £18m Industrial Heat Recovery Support Programme and £315m Industrial Energy Transformation Fund
- promoting heat networks in areas of denser heat demand, through the £320m Heat Networks Investment project
- developing a new policy framework for the long-term future of heat; we are now working on a Heat Policy Roadmap set out key steps required to make these key decisions on heat decarbonisation in the 2020s, which we aim to publish in 2020

Any recommendations or questions?

If you have a recommendation, an idea or a question get in touch via:
buildingheat@beis.gov.uk

For more details on Government information for Heat in Buildings, [click here](#).

Source: www.gov.uk

ecmk Quality Plan & Retrofit Docs

- [Download ACC 001 issue 5.1](#)
- [Download ACC 800](#)
- [Download ACC 801](#)



www.trustmark.org.uk



Retrofit Assessor Training

Every building that undergoes energy retrofit work will first need to be assessed by a trained and certified Retrofit Assessor.

ecmk have developed formal training and certification to offer energy assessors. ecmk's PAS2035 Retrofit Assessor Scheme delivers training and CPD sessions geared around the Retrofit Assessor Role where by DEAs will be authorized to carry out a Retrofit Assessment which is a non-intrusive on site assessment allowing a retrofit coordinator to carry out a Medium Term Improvement Plan based on the evidence gathered from the assessment.

PAS2035 Retrofit Assessor Training

£250 + VAT

4 Day ONLINE COURSE

If you have any further questions, please contact us via email: training@ecmk.co.uk

Green Homes Grant Voucher Scheme

Available measures

The available measures are split into “primary” and “secondary” categories.

Households will need to install at least one of the primary measures below to qualify for funding.

Insulation: Solid wall, cavity wall, under-floor, loft, flat roof, room in roof, park home.

Low carbon heat: Air source heat pump, ground source heat pump, solar thermal

“Top ups” are allowed (e.g. additional loft insulation up to the recommended level, solid wall insulation for other walls where a wall has been previously insulated), but replacements are not included.

So long as there is at least one primary measure in the package of works, households will also be able to install secondary measures. Secondary measures can only be subsidised up to the amount of subsidy provided for primary measures. (e.g. if a household receives £1,000 for primary measures, they can only receive a maximum of £1,000 towards secondary measures).

The secondary measures are:

- Draught proofing
- Windows and doors: Double/triple glazing (where replacing single glazing), secondary glazing (in addition to single glazing), upgrading to energy efficient doors (where replacing doors installed prior to 2002).
- Heating controls and insulation: appliance thermostats, hot water tank thermostats, hot water tank insulation, smart heating controls, zone controls, delayed start thermostat, thermostatic radiator valves

For low-carbon heating to be installed, households will need to have adequate insulation (e.g. wall and loft, where applicable). These can be installed as part of a package – they do not have to already be in situ.

Eligibility

For the general scheme, the following properties are eligible:

- All owner-occupied homes (including long-leaseholders, shared ownership)
- Landlords of private rented sector domestic properties
- Landlords of social sector domestic properties (including LA owned homes)

- Park home owners (for residential sites including Gypsy and Traveller sites)

New-build domestic properties and non-domestic properties are not eligible.

For the low-income scheme, only owner-occupied properties and park homes are eligible.

Households receiving income-based or disability benefits would be eligible for a fully funded package of measures.

Eligibility for low-income scheme

You qualify for the Green Home Grants low-income scheme if you receive at least one of the following benefits:

- Income based Jobseekers allowance (JSA)
- Income based Employment & Support Allowance (ESA)
- Income Support (IS)
- Pension Guarantee Credit
- Working Tax Credit (WTC)
- Child Tax Credits (CTC)
- Universal Credit (UC)
- Disability Living Allowance (DLA)
- Personal Independence Payment (PIP)
- Attendance Allowance
- Carer's Allowance
- Severe Disablement Allowance
- Industrial Injuries Disablement Benefit
- Contribution based Jobseekers allowance (JSA)
- Contribution based Employment & Support Allowance (ESA)
- Housing benefit

For more Government information on the Green Homes Grant - [click here.](#)

Upcoming CPD Webinars

	September	Cost (+vat)*
Heating Controls	Thurs 3 @ 1500-1600	£15.00
Glazing	Fri 4 @ 1600-1700	£15.00
Evidence: Photographs and Documents	Thurs 10 @ 1500-1600	£15.00
Flats and Maisonettes	Fri 11 @ 1600-1700	£15.00
PAS Retrofit Medium Term Plan	Tues 15 @ 1500-1600	£15.00
Heating Advanced	Weds 16 @ 0900-1000	£15.00
PAS Retrofit Assessor Mini Audit Hints & Tips	Thurs 17 @ 1030-1130	£15.00
Walls - Construction, Party & Alternative	Fri 18 @ 1600-1700	£15.00
Mini Audit : Tips and Hints – How Not To Fail	Thurs 24 @ 1500-1600	£15.00
Lighting & Storage Heaters	Fri 25 @ 1600-1700	£15.00
PAS Retrofit Thermal Bridging	Tues 29 @ 1500-1600	£15.00
Rooms in the roof	Weds 30 @ 0900-1000	£15.00

Upcoming Courses

		September	Cost (+ vat)*
CERT DEA *ONLINE*	4 Day Course	Mon 7 – Thurs 10	£750.00
PAS2035 Retrofit Assessor *ONLINE*	4 Day Course	Mon 7 – Thurs 10	£250.00
DEA Bootcamp (CPD) *ONLINE*	1 Day Course	Weds 9	£39.95
CERT DEA *ONLINE*	4 Day Course	Mon 14 – Thurs 17	£750.00
PAS2035 Retrofit Assessor *ONLINE*	4 Day Course	Mon 21 – Thurs 24	£250.00
DEA Bootcamp (CPD) *ONLINE*	1 Day Course	Weds 23	£39.95
PAS2035 Retrofit Assessor *ONLINE*	4 Day Course	Mon 28 – Thurs 1 (Oct)	£250.00

**Costs listed are for ecmk members*

[Click here](#) to find out more and to book your place.

If you are looking for something more bespoke, we can deliver courses nationwide.

For further information, more course dates and to book your place:

Email: training@ecmk.co.uk or Visit: www.ecmk.co.uk/training

4 hours
FREE CPD

All ecmk members are entitled to 4 hours free CPD every year. Call 0333 123 1418 to make your claim and ask about our CPD courses.