

# EVCP & HP Connections Form v3.3

## Cover Page

Completing this form accurately will help DNOs process your application as quickly as possible. Please read the following information thoroughly before starting to ensure you have all information required to complete the relevant sections.

What is eligible	This form is for <b>Electric Vehicle Charge Points (EVCP)</b> or <b>Heat Pumps (HP)</b> being installed in a premises with an existing Distribution Network Operator (DNO) electricity connection. This form may also be used for the installation of <b>Vehicle-to-Grid Electric Vehicle Charge Points (V2G EVCP)</b> where the total aggregated capacity of generation/battery storage equipment in a premises is 17kW (single phase) or 50kW (3-phase) or less. To apply for a new connection to the network, please contact your relevant DNO.
When to complete	This form should always be reviewed prior to installing any new EVCP or HP to determine whether the installation requires an application or whether it is eligible for the notification process.
When to submit	If the installation meets all the notification criteria (Section B) the DNO must be notified within 28 days of installing the new equipment. If all the criteria in Section B cannot be met, you should submit an application to the DNO using this form before connecting the new equipment to ensure that the DNO can maintain safe and effective operation of the electricity network.
What to submit	Depending on the nature of the new equipment, the DNO may require additional information. For multiple pieces of equipment (including multiple pieces of equipment under one controller) or multiple premises, please use the <a href="#">multiple installations spreadsheet</a> , also available on the ENA website <sup>1</sup> .
Finding your DNO	For help identifying your DNO and their contact details please visit the ENA website <sup>2</sup> .
Cost	Any reinforcement costs associated with this installation may be charged to the customer.

## Required Information

To populate this form, you will need information about the following.

Device to be installed	Details of EVCPs or HPs to be installed are required. Where equipment is not registered in the relevant ENA database, additional information will be required (Section E). A link to the <b>Heat Pump Database</b> can be found on the <a href="#">Databases page</a> on the ENA website <sup>1</sup> . Type tested V2G EVCPs can be found in the <a href="#">ENA Type Test Verification Report Register</a> .
Existing devices at the premises	Details of any existing EVCPs, electric heating, battery storage, generation (e.g. solar PV), storage or other large load drawing devices.
Maximum demand (MD)	A load survey is required to calculate the Maximum Demand. This should comprise the existing Maximum Demand of the whole premises and the new equipment to be installed as well as any import or load limiting devices. Further Guidance on such devices is available in the FAQ section of the Connecting to the networks page on the ENA website <sup>1</sup> .
Supply Capacity / cut-out rating	If the cut-out rating is unknown or uncertain, it can be established by asking the DNO. The supply capacity <b>MUST</b> be confirmed with the DNO where the MD is greater than the cut-out rating or where the new MD is >60A per phase (13.8kVA single phase) for residential / non-CT metered premises. If the cut-out rating is unknown, a photograph can be provided to the DNO together with the application. Please note that you <b>MUST NOT</b> open the cut-out unless authorised to do so. Further Guidance on cut-out ratings is available on the ENA website <sup>1</sup> .
Adequacy of supply	An 'adequacy of supply' assessment is required prior to installing a EVCP or HP. The DNO must be contacted in advance of installation where there is an identified issue with adequacy or a safety concern with the premises existing DNO service equipment.

## Timelines

Providing that this form is fully and correctly completed, the following timeframes are applicable.

Notifications	Provided the installation meets <b>all</b> the relevant notification criteria (i.e. all the applicable checkboxes in Section B that are relevant to the installation can be ticked) installers can connect the new EVCP or HP and notify the DNO using this form within 28 days of their installation.
Application (60A < MD ≤ 100A)	The DNO should assess the supply capacity and confirm if the new equipment can be connected within 10 working days of receiving the completed form.

<sup>1</sup> <https://www.energynetworks.org/operating-the-networks/connecting-to-the-networks>

<sup>2</sup> <https://www.energynetworks.org/info/faqs/who-is-my-network-operator.html>

# EVCP & HP Connections Form v3.3

<b>Application (MD &gt; 100A)</b>	The DNO will respond within the timescales as per the Electricity Distribution Licence, Electricity Guaranteed Standards of Performance (GSoP) Regulations 2010 <sup>3</sup> .
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## Declaration

**Once populated, please remove the cover page, sign below and submit to the relevant DNO with any attachments.**

I confirm that the information I have given in this form is true to the best of my knowledge. If this is for an application for connection, the customer has been advised that the installation may only take place following approval from the DNO.	Name: ..... Signature: ..... Date: .....
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## Section A – Contact Details

<b>Installer Contact Details</b>	
Name	
Company	
Address line 1	
Address line 2	
Town	
Postcode	
Contact Number	
Email	
If necessary, are we able to contact the customer directly e.g. to arrange a fuse upgrade	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Customer Contact Details</b>	
Name	
Contact Number	
Email	
<b>Installation Location Address</b>	
Address line 1	
Address line 2	
Town	
Postcode	

## Section B – Notification Criteria

<b>All Equipment Types</b>	<input type="checkbox"/> Only connecting one additional piece of equipment (EV Charge Point or Heat Pump)
	<input type="checkbox"/> DNO cut-out rating known
	<input type="checkbox"/> No safety concerns over integrity of DNO service equipment
	<input type="checkbox"/> No other issues identified with adequacy or integrity of the DNO service equipment
	<input type="checkbox"/> Not a Looped Service
	<input type="checkbox"/> Metered supply
	<input type="checkbox"/> Maximum Demand less than the known cut-out rating
	<input type="checkbox"/> Maximum Demand less than 13.8kVA per phase OR the premises is CT metered OR the premises load is limited to below the known cut-out fuse rating
<b>HP only</b>	<input type="checkbox"/> Heat pump system under single controller only

<sup>3</sup> <https://www.ofgem.gov.uk/ofgem-publications/47616/connections-gsop-guidance-sept0809.pdf>. See local DNO connections GSoP for specific response timescales in your area.

# EVCP & HP Connections Form v3.3

	<input type="checkbox"/> Total heat pump system Maximum Demand $\leq 32A$
	<input type="checkbox"/> Model marked at 'Connect and Notify' in the ENA's HP Database
<b>EVCP only</b>	<input type="checkbox"/> AC Output
	<input type="checkbox"/> Premises MD $\leq 13.8$ kVA per phase OR where CT metered: Maximum AC output of EV charge points $\leq 30\%$ of the Maximum Import Capacity
<b>V2G only</b>	<input type="checkbox"/> Total installed generating capacity (including any PV, storage and V2G storage) $\leq 3.68kW$ (16A) per phase and excluding any export limiting device
	<input type="checkbox"/> V2G EVCP charge point Fully Type Tested and registered in the ENA Type Test Verification Report Register
<b>Does the installation meet all applicable notification criteria?</b> If yes (i.e., all applicable checkboxes in Section B above are ticked), you can connect the equipment and notify the DNO within 28 days. If no, please apply to the DNO before connecting the equipment.	<input type="checkbox"/> No – <b>Apply to the DNO before installation</b> <input type="checkbox"/> Yes – Notify the DNO of the installation Date installed: .....
<b>V2G notify requirements</b>	<input type="checkbox"/> Confirmation that the V2G EVCP was installed and commissioned in accordance with EREC G98 <sup>4</sup> – this is V2G only <input type="checkbox"/> Electrical schematic of the installation and site layout showing location of the EVCP attached

Section C – Electricity Supply Details	
<b>Type of premises</b>	<input type="checkbox"/> Residential house <input type="checkbox"/> Residential flat <input type="checkbox"/> Commercial <input type="checkbox"/> Public <input type="checkbox"/> Other – Please detail: .....
<b>MPAN<sup>5</sup></b> 11-digit MPRN if Northern Ireland	_____
<b>Smart Meter installed on site</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<b>Declared Voltage at Connection Point</b>	..... Volts
<b>Number of Phases</b>	<input type="checkbox"/> Single Phase <input type="checkbox"/> Three Phase <input type="checkbox"/> Split/two Phase
<b>Maximum Demand (MD) of premises</b> See page 1 for guidance	<input type="checkbox"/> Whole Current Metered ..... Amps <input type="checkbox"/> CT Metered ..... kVA
<b>Supply Capacity</b> Agreed Supply/Maximum Import Capacity	<input type="checkbox"/> Whole Current Metered ..... Amps per phase <input type="checkbox"/> CT Metered ..... kVA
<b>Supply capacity confirmed by the DNO?</b> Must be confirmed with DNO if MD > 60A	<input type="checkbox"/> Yes      Reference No/Date: ..... <input type="checkbox"/> No
<b>Premises Cut-out Rating</b> If known. See the cover page for guidance	Whole Current Metered only ..... Amps
<b>Import or load limiting device on premises</b>	<input type="checkbox"/> Yes      If yes, please confirm MD of the premises with load limiting device installed: ..... Amps <input type="checkbox"/> No
<b>G100 export limiting scheme on premises</b>	<input type="checkbox"/> Yes      Please detail: ..... <input type="checkbox"/> No
<b>Any issues identified with the DNO existing supply equipment?</b>	<input type="checkbox"/> Yes      Please detail: ..... <input type="checkbox"/> No

<sup>4</sup> G98 and G99 forms are not required in addition to this form – this form replaces the need to fill in G98 and G99 forms for the V2G if “connect and notify” process.

<sup>5</sup> See <https://www.energynetworks.org/operating-the-networks/connecting-to-the-networks> for details. If the supply is unmetered, the ‘Apply to Connect’ process is applicable and the local DNO must be contacted.

# EVCP & HP Connections Form v3.3

<b>Final or Proposed Earthing Arrangements<sup>6</sup></b>	<input type="checkbox"/> TN-C-S (PME) <input type="checkbox"/> TT (Direct)
	<input type="checkbox"/> Customer Substation (HVCT metered) <input type="checkbox"/> TN-S (SNE)
<b>Is the service looped<sup>7</sup>?</b>	<input type="checkbox"/> Yes, multiple service cables present <input type="checkbox"/> No

## Section D – Existing equipment at premises if applicable (this section is for V2G applications only)

Technology Type	Approximate date of installation	Manufacturer	Manufacturer's Ref No. where available	Registered Capacity (kW)		Phase (if known)	Power Factor	Device to be removed
				Import	Export			
<i>Example</i>	<i>DD/MM/YYYY</i>	<i>CompanyX</i>	<i>1234</i>	<i>3.68</i>	<i>6.2</i>			<i>No</i>
Heat Pump								
EVCP								
V2G EVCP								
Solar PV								
Battery Storage								
Other <i>(please specify here):</i> .....								

## Section E – Equipment to be installed

<b>Type of equipment</b> Tick all that apply (if selecting multiple this must be an application)	<input type="checkbox"/> Heat Pump <input type="checkbox"/> Electric Vehicle Charge Point ( <b>EVCP</b> ) <input type="checkbox"/> Vehicle-to-Grid Electric Vehicle Charge Point ( <b>V2G EVCP</b> )
<b>Maximum Current Demand of proposed equipment<sup>8</sup></b> Include any associated additional components. The aggregate maximum simultaneous current of all pieces of equipment must be stated.	<input type="checkbox"/> Single phase ..... Amps <input type="checkbox"/> Three phase ..... Amps
<b>Electric Vehicle Charge Points</b>	
<b>Manufacturer</b>	
<b>Model</b>	
<b>Model in the ENA EVCP Database (DC Only)</b>	<input type="checkbox"/> Yes      Product ID: ..... <input type="checkbox"/> No         If no, fill in Section F
<b>V2G Electric Vehicle Charge Points</b>	
<b>Manufacturer</b>	
<b>Model</b>	
<b>Export Capacity (kW)</b>	
<b>Model Fully Type Tested and registered in the ENA Type Test Verification Report Register</b>	<input type="checkbox"/> Yes      Product ID: ..... <input type="checkbox"/> No         If no, fill in Section F
<b>Heat Pumps</b>	
<b>Manufacturer</b>	

<sup>6</sup> As per BS 7671 and the IET Code of Practice: <https://www.theiet.org/resources/standards/cop-electric.cfm>

<sup>7</sup> Some DNO cut-outs have more than one DNO service cable terminated in the DNO cut-out. Such a situation indicates a 'Looped Service' where there are one or more services connected via the cut-out. Note this may impact on the adequacy of the DNO service equipment. Looped services can be found anywhere but are often found in housing estates from the 1970s & 1980s, rural areas and terraced housing.

<sup>8</sup> Connection of additional equipment or reconfiguration not included in this application is not permitted without submitting another application

# EVCP & HP Connections Form v3.3

<b>Model</b>			
<b>How will the Heat Pump system be used?</b> Please tick one	The Heat Pump model stated will provide:		<input type="checkbox"/> Heating only <input type="checkbox"/> Heating and cooling
	<b>Does the Heat Pump system have additional components installed?</b>	Back-up heater: <input type="checkbox"/> On-board <input type="checkbox"/> External	Boost Heater: <input type="checkbox"/> On-board <input type="checkbox"/> External
		Immersion heater: <input type="checkbox"/> On-board <input type="checkbox"/> External	
<b>Model in the ENA Heat Pump Database</b>		<input type="checkbox"/> Yes <input type="checkbox"/> No	Register No: ..... If no, fill in Section F

## Section F – Equipment not currently in ENA Databases

### EVCP (DC Only)

You must provide the required data for DC-coupled EVCP models not currently in the ENA EVCP Database. It is the installer's responsibility to ensure all information required to populate the EVCP Database is provided.

**Datasheet and Power Quality documentation for the EVCP**  
(Rated power, harmonic emission data & test standard applied for harmonic emission data)

**Must attach with application**

### V2G EVCP Only

If only part of the V2G EVCP is not Fully Type Tested and registered with the ENA Type Test Verification Report Register, Form A2-1 or A2-2 or A2-3 (as appropriate) should be submitted to the DNO with this form. These forms can be downloaded from the ENA website Resource Library: <https://www.energynetworks.org/industry-hub/resource-library/>

**EREC G98 or G99 Forms A1-3 (where applicable)**

**Must attach with application**

### Heat Pumps Only

You must fill in the following Power Quality details required for non-registered Heat Pump Models. It is the installer's responsibility to ensure all information required to populate the Heat Pump Database is provided.

**Datasheet and Power Quality documentation for the Heat Pump.**

**Must attach with application**

**Microgeneration Certificate Scheme<sup>9</sup> Product Requirements met**

<b>Proposed installation complies with:</b>	Technical requirements of BS EN/IEC 61000-3-2 (harmonics)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	BS EN/IEC 61000-3-12 (harmonics)	<input type="checkbox"/> Yes ( $R_{scc} = 33$ )	
		<input type="checkbox"/> Yes, subject to minimum short-circuit power ( $S_{sc}$ )	
		<input type="checkbox"/> No	
	Technical requirements of BS EN/IEC 61000-3-3 (flicker)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	BS EN/IEC 61000-3-11 (flicker)	<input type="checkbox"/> Yes (meets 61000-3-3 tech. requirements)	
		<input type="checkbox"/> Yes, subject to a service current capacity $\geq 100A$ per phase	
		<input type="checkbox"/> Yes, subject to a $Z_{max}$ value at point of supply	
<input type="checkbox"/> No			

**Microgeneration Certificate Scheme<sup>10</sup> Product Requirements met**

<b>Proposed installation complies with:</b>	Technical requirements of BS EN/IEC 61000-3-2 (harmonics)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	BS EN/IEC 61000-3-12 (harmonics)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	Technical requirements of BS EN/IEC 61000-3-3 (flicker)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
	BS EN/IEC 61000-3-11 (flicker)	<input type="checkbox"/> Yes	<input type="checkbox"/> No

<sup>9</sup> <https://www.microgenerationcertification.org/mcs-standards/product-standards/heat-pumps/>

<sup>10</sup> <https://www.microgenerationcertification.org/mcs-standards/product-standards/heat-pumps/>