

DCUSA Issues Form (DIF)

This form should be used by parties to submit matters for consideration to DCUSA Standing Issues Group (SIG). The completed form should be issued to DCUSA@electralink.co.uk

Document Control	
Date Submitted:	19/05/2020
Issue Title:	Network operator ability to manage consumer devices (such as EV chargers) connected to Smart Meter infrastructure to prevent network overloads in emergency scenarios
Attachments:	N/A (Click here for details of the SECMP0046 'Allow DNOs to control Electric Vehicle chargers connected to Smart Meter infrastructure' Modification)
Issue Number*:	059
Meeting Reference*:	SIG_DIF 059_200529_03

**Assigned by DCUSA Secretariat*

Originator Details	
Party Name:	Scottish and Southern Electricity Networks (SSEN)
Originator Name:	Richard Hartshorn
Party Category:	DNO
Email Address:	Richard.hartshorn@sse.com
Telephone Number:	07584313304

Nature of Issue
<p>Electricity networks in Great Britain were not designed to accommodate the significant additional demand that certain consumer devices (such as electric vehicle (EV) chargers) presents. In some circumstances, Electricity Network Operators will be required to act to find a balance between their obligation to operate cost-effective, safe and reliable electricity networks and the need to support customers who wish to adopt low carbon technologies such as EVs.</p> <p>Whilst the Electricity Network Operators are aiming to use market-sourced flexibility services to keep the networks within their limits, there is a need for a system to prevent supply interruptions and/or damage to networks in limited circumstances as a short-term, last resort action in emergency scenarios - i.e. the</p>

absence or failure of market-based solutions and where failure to act is likely to cause power outages due to overloads.

The [SEC Modification proposal SECMP0046](#) is progressing the technical aspects of implementing such a system using the Smart Meter infrastructure, yet as this involves turning down demand it will require a change to DCUSA.

It is felt that Schedule 8 would be a logical place to accommodate such amendments and detail the governance arrangements for the process.

Solution Overview – If Known

Solution Description	<p>The SEC Modification proposal SECMP0046 is progressing with a technical solution drafted by the Working Group. The proposed solution offers the ability to curtail significant load at a property (such as the charging of EVs), but that it should be treated as a last resort to prevent failure of electricity networks.</p> <p>This would be achieved by the use of Home Area Network (HAN) Connected Auxiliary Load Control Switches (HCALCS). The HCALCS will be connected to domestic EV chargers and would allow Electricity Network Operators the ability to send the relevant Service Request via the Data Communication Company (DCC). This would result in altering the load on an EV charger in the event that the Operator detects a potential risk of overloading on a network.</p> <p>Suppliers currently have the ability to manage load via HCALCS and the solution would extend these capabilities as well as the capability to install and join HCALCS to the Electricity Network Operators.</p>
Lead Time For Implementation	Aim is for November 2021 for SEC code release and functionality available for users.