

Flexibility Assessment Tool

Energy Officers – User Manual

Login

Energy Officers belongs to organisations. The administrator of your organisation should have provided you with a login.

To login visit <https://flexibility.carbon.coop/> and click on the login link:



Input your login details:

Flexible Power

Flexibly using electricity to save money for users and make money for community groups

Home Login Register

Login

E-Mail Address

assessor@org1.com

Password


••••••••


☐ Remember Me

Login

Forgot Your Password?

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Assessments management

Once you have logged in, the list of your assessments is displayed. From that page you can: create a new assessment, delete an existing assessment, go to the assessment to edit it and filter the list of assessments by a given text:

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Home Assessments assessor ▾

Assessments

Filter assessments

Enter text to search in the name, description and postcode of the assessment

Click to create a new assessment


New


Edit assessment

Delete assessment

Name	Description	Postcode	Updated At	
Bob		G41 5	2019-03-20 10:41:56	<input checked="" type="checkbox"/> <input type="checkbox"/>
Carlos Alonso-Gabizon		SY208DN	2019-04-30 14:04:12	<input checked="" type="checkbox"/> <input type="checkbox"/>

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When creating an assessment you need to add some basic information about the household:

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Home Assessments assessor

Assessments

Filter assessments

Name	Description
Bob	
Carlos Alonso-Gabizon	

New assessment

Name*

My assessment

Description

Description

Address 1

Address 1

Address 2

Address 2

Town

Glasgow

Postcode*

G41...

Contact email*

myemail@domain.com

Cancel

OK

New

41:56	
04:12	

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
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Editing an assessment

An assessment is made of 4 sections: 3 of them (questionnaire, assessment and report feedback) are questions for the household and the last one is the report:

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Home Assessments assessor ▼

Name: Carlos Alonso-Gabizon 

16 Heol Pentrerhedyn
Machynlleth
SY208DN
cagabi@lapiluka.org

Click to edit household data

Flexibility assessment

The way you pay for gas and electricity will probably change; if you can be flexible with your energy demand you may be able to lower your bills.

Fill out this assessment, to generate a report which will give you information on the flexibility of your energy consumption.

Household data

Project input:
Questionnaire
Assessment
Feedback

Other:
Report

Type of property

Do you know the EPC rating? ☐ Yes ☐ No

How many people live in the household?

Age of the house

Tenure

Relationship with landlord ☐ Good ☐ Complicated

Notes

Assessment navigation

To see the report click the link in the assessment navigation menu.

To print the report (in paper or pdf) to give to the householders use the browser print functionality.

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Project input:
Questionnaire
Assessment
Feedback

Other:
Report

Flexibility assessment report

The Flexibility Assessment Tool calculates the available flexibility of your household and the potential income that can be generated from it.

This is the report that summarizes the calculations and results. Please be aware that they are only indicative.

Your flexible power

In the table below you can see how much flexible power is available in your household and the potential amount of energy that can be shifted.

Rating	Flexible power available	Potential energy shifted
--------	--------------------------	--------------------------

Schemes

The potential income from flexibility is calculated for three different type of schemes. Each of them respond to different requirements of the National Grid. They also have different implications for the household and provide different revenues.

Potential income from flexibility

In this table you can find how much you may be able to make per year with any of the schemes described below and for the energy assets you have in your household

Secure	Dynamic	Restore
--------	---------	---------

£0.00	£0.00	£0.00
-------	-------	-------

Secure scheme

This scheme aims to manage predictable needs of the grid. The household agrees in advance with the DNO how much power they can stop using and for how long. The DNO will pay a fee for this. The following week the DNO will use all or some of that power and pay another fee for the total

Dynamic scheme

This scheme aims to support the grid in the case of a specific fault. It works in a similar way than the Secure scheme: the household declares a week in advance the power and the time they can turn things off. The DNO will agree to that and pay a feed. Again, the DNO may or may not require the

Restore scheme

This scheme deals with unexpected faults in the grid. Such events are rare and offer no warning as they depend on failure of equipment. Under such circumstances, response can be used to reduce the stress on the network. When taking part in this scheme there is no pre-

At the bottom of the online version you can find a unique link to send to the householders. With this link they can see the report without the need to log into the website.

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Project input:
Questionnaire
Assessment
Feedback

Other:
Report

consumption.

How is the available flexibility calculated?

The calculations are based in a model that takes your answers to the assessment as inputs, it runs them through an algorithm and generates the results.

The model assumes that some of the power used in the house is shifted. This means that the energy is not used at the time when you would normally use it but at a different time of the day.

How much energy can be shifted depends on the electrical devices in your house. This model takes into account storage heaters and immersion heaters but also how efficient your house is and the occupancy.

How is the flexibility from an immersion heater calculated?

The model assumes that 80% of the immersion heater power can be shifted.

The remaining 20% is to allow the householder keep some control.

How is the flexibility from storage heaters calculated?

The EPC rating is used as the factor by which the amount of the charging time can be reduced during the normal charging period (night). The aim of using the EPC is to minimize the impact to the occupants' thermal comfort.

The model assumes that houses with higher EPCs have better insulation and higher thermal capacity. In these cases a bigger load can be shifted and the house will still be at an acceptable temperature.

How is the income from flexibility calculated?

The income is calculated as the fees you get paid by the DNO minus the cost of using the energy at a different time of the day


How much time will I have to be flexible?


The model estimates that every year the DNOs will ask households to turn off electrical loads for around 125 hours.

Unique link

Unique link to this report to share with household
<https://flexibility.carbon.coop/assessment/30/report?signature=e29df010e695bd20e1a2dcbe7bbcd820e621f403d32f403a78efedea3f7d548>

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