

Quidos ECO Scoring Tool

Software Manual

Version 1.0



What is ECO

The Energy Companies Obligation (ECO) is the replacement for the Carbon Emissions Reduction Target ([CERT](#)) and the Community Energy Saving Programme ([CESP](#)) programmes, both of which came to a close in December 2012.

ECO operates across Great Britain (England, Scotland and Wales). It will operate alongside the Green Deal and focuses on both vulnerable consumer groups and hard-to-treat homes.

ECO consists of three distinct targets obligations that larger domestic energy suppliers must meet by 31 March 2015 to avoid a significant fine.

The three obligations are

Carbon Emissions Reduction Obligation (CERO): focuses on the installation of solid wall and hard-to-treat cavity wall insulation.

Carbon Savings Community Obligation (CSCO): promotes the installation of insulation of the property and connections to district heating systems in areas of low income and rural areas.

Home Heating Cost Reduction Obligation (HHCRO): promotes the installation of measures focusing on the repair and replacement of boilers, to homes in receipt of qualifying benefits, to achieve a decrease in the overall cost of space heating.

The targets for each obligation are

Carbon Emissions Reduction Obligation (CERO) - 20.9 Million Tonnes of CO₂ savings

Carbon Saving Community Obligation (CSCO) - 8.8 Million Tonnes of CO₂ savings

Home Heating Cost Reduction Obligation (HHCRO) £4.2 billion of cost savings.

The targets are divided between the obligated suppliers proportionate to their share of domestic customers.

What you should know as an Energy Assessor

Remember as an assessor you are responsible for the quality of your work, **all** EPC lodgements should be in line with the quality standards, assessment dates should be on the date of assessment and the recommendations on a lodged EPC should not be adjusted for an assessment for the purposes of ECO.

Standard process for producing an EPC to use with ECO

Log in to your **iQ-Energy** account with your username and password: <http://iqenergy.quidos.co.uk/>



The screenshot shows the iQ-Energy control panel interface. At the top left is the logo for iQ-ENERGY, with 'QUIDOS TO-ENERGY' written below it. To the right of the logo is a navigation bar with links for 'Home', 'Control Panel', and 'Log out'. The date '16 July 2013, Tuesday' is displayed on the right side. Below the logo, the breadcrumb 'Home / Control Panel /' is visible. The main content area is divided into three sections: 'Technical Documents', 'System News', and 'Menu'. The 'Technical Documents' section contains two entries: 'DEA QA Standards' and 'Quidos Part L summary', each with a checkbox and the text 'Can you confirm you have read this document?'. The 'System News' section contains two entries: 'September Newsletter (08/09/2010)' and 'Welcome to iQ-Energy (27/09/2009)'. The 'Menu' section contains four items: 'My Account', 'Domestic Energy Assessment', 'Upload Files', and 'Tools'. Below the menu is a 'Version' section with the following information: 'Assessment Software: iQ-Energy RdSAP 2009 (v9.91)', 'Last Modified: 15/02/2012', and 'Calculation Methodology: RdSAP 2009 (Worksheet 9.91)'.

In the Domestic Energy Assessment section on the right hand side, go to **RdSAP calculation**.

Home / Control Panel /

<p>Technical Documents</p> <p> DEA QA Standards <input type="checkbox"/> Can you confirm you have read this document?</p> <p> Quidos Part L summary <input type="checkbox"/> Can you confirm you have read this document?</p> <p>System News</p> <p>September Newsletter (08/09/2010)</p> <p>Welcome to iQ-Energy (27/09/2009)</p>	<p>Menu</p> <ul style="list-style-type: none"> ▶ My Account ▶ Domestic Energy Assessment <ul style="list-style-type: none"> RdSAP Calculation ▶ Upload Files ▶ Tools ▶ Online CPD <p>Version</p> <p>Assessment Software: iQ-Energy RdSAP 2009 (v9.91)</p> <p>Last Modified: 15/02/2012</p> <p>Calculation Methodology: RdSAP 2009 (Worksheet 9.91)</p>
--	--

At this point you can either create a new report (EPC) by clicking on **Add new** or select the report you would need the ECO report for and then press **Edit**.

<p>iQ-ENERGY <small>QUIDOS IQ-ENERGY</small></p>								<p>Home Control Panel Log out</p>	
								<p>16 July 2013, Tuesday</p>	
<p>Matching Records Found : 4</p> <p>Countries (All Countries) Language (All Language) Status (All Status) Search <input type="text"/> <input type="button" value="Find"/> <input type="button" value="Export"/></p>									
UPRN	RRN	Property Address	Assessment Date	SAP	EI	Status			
<input type="radio"/> 7685472468	9868-7054-6289-4527-7960	40, Newton St. Loe, BATH, BA2 9BZ	16/01/2013	D60	D62	Lodged			
<input type="radio"/> 1288642468	8602-3464-8229-7896-1973	36, Newton St. Loe, BATH, BA2 9BZ	16/01/2013	F36	F37	Lodged			
<input type="radio"/> 1004742468	8717-6429-4400-0286-7992	35, Newton St. Loe, BATH, BA2 9BZ	16/01/2013	E53	E54	Lodged			
<input checked="" type="radio"/> 3404742468	9668-3047-6209-4527-4944	37, Newton St. Loe, BATH, BA2 9BZ	16/01/2013	E51	E51	Lodged			
							Per Page 10 Page 1 of 1		
<p><input type="button" value="Add New"/> <input checked="" type="button" value="Edit"/> <input type="button" value="Lodge Report"/> <input type="button" value="Copy"/> <input type="button" value="Remove"/> <input type="button" value="Cancel Report"/> <input type="button" value="Upload for Q/A"/></p>									

If you have an existing report in your system, please complete all the property data and then press **Calculate** and then **Create EPC** on the right hand side.

Improvement Measures

Recommend Measures
Alternative Measures

Calculate Energy Ratings

Select	Measure	Saving (£/year)	New SAP	New EI	Reason NOT Selected
<input checked="" type="checkbox"/>	Q. Internal or external wall insulation	42	53	53	
<input checked="" type="checkbox"/>	W. Floor insulation	44	55	55	
<input checked="" type="checkbox"/>	E. Low energy lighting for all fixed outlets	13	56	55	
<input checked="" type="checkbox"/>	H. Heating controls (programmer and room thermostat)	28	57	56	
<input checked="" type="checkbox"/>	M. Replacement warm air unit	53	59	60	
<input checked="" type="checkbox"/>	N. Solar water heating	29	61	62	
<input checked="" type="checkbox"/>	O. Replace single glazed windows with low-E double glazing	68	64	66	
<input checked="" type="checkbox"/>	U. Solar photovoltaic panels, 2.5 kWp	238	74	75	
Potential SAP Rating : C 74.0		Potential EI Rating : C 75.0			

Hard to Treat Cavity Walls

Access Issues

High Exposure

Narrow Cavities

Addenda to EPC

NB: The purpose of addenda is to provide an explanation of items in the table on page 3 of the EPC where the description does not correspond adequately to the actual property.

- 1. Wall type does not correspond to options available in RdSAP
- 4. Dwelling has a swimming pool
- 5. Dwelling has micro-CHP not found in database
- 6. Storage heater or dual immersion, and single electric meter
- 8. PVs or wind turbine present on the property (England, Wales or Scotland)
- 9. Two main heating systems and heating system upgrade is recommended
- 10. Dual electricity meter selected but there is also an electricity meter for standard tariff
- 11. Single electricity meter selected but there is also an electricity meter for an off-peak

Calculate

Create EPC

After you have successfully created the EPC, you will be able to lodge the report by clicking on **Lodge Report**.

*****Please note that ECO reports can only be created from a lodged EPC*****

UPRN: 3404742468 / Energy Assessments / Building Details / RRN: 9668-3047-6209-4527-4944 | Status: Completed

Building Details

Calculate Energy Ratings
 SAP Rating: **E51**
 EI Rating: **E51**
 CO2 Emissions: **4.59**
 Potential SAP Rating: **C74**
 Potential EI Rating: **C75**
[Calculate](#) [Create EPC](#)

Property Address

Post Code: BA2 9BZ [Find Address](#) [Add property](#)

Address 1: 37
 Address 2: Newton St. Loe
 Address 3:
 Town: BATH
 Post Code *: BA2 9BZ

Survey Details

Assessment Date: 16/01/2013
 Has this EPC been completed using sampling/cloning techniques?
[Please download Sampling and Cloning Guide here.](#)

Site Notes:
 Related Party Disclosure: No related party

Occupier Information

Occupier name:
 Occupier contact number:
 Occupier email address:
 Occupier present:

UPRN *: 3404742468

[Download EPC](#) [Lodge Report](#) [Documents](#) [Copy](#) [Previous](#) [Next](#) [Save](#) [Close](#)

After lodging the report you will then be able to access the eco scoring tools by pressing the **ECO** button.

iQ-ENERGY divisions iq-energy 16 July 2013, Tuesday

UPRN: 3404742468 / Energy Assessments / Building Details / RRN: 9668-3047-6209-4527-4944 | Status: Lodged

Building Details

Calculate Energy Ratings
 SAP Rating: **E51**
 EI Rating: **E51**
 CO2 Emissions: **4.59**
 Potential SAP Rating: **C74**
 Potential EI Rating: **C75**
[Calculate](#) [Create EPC](#)

Property Address

Post Code: BA2 9BZ [Find Address](#) [Add property](#)

Address 1: 37
 Address 2: Newton St. Loe
 Address 3:
 Town: BATH
 Post Code *: BA2 9BZ

Survey Details

Assessment Date: 16/01/2013
 Has this EPC been completed using sampling/cloning techniques?
[Please download Sampling and Cloning Guide here.](#)

Site Notes:
 Related Party Disclosure: No related party

Occupier Information

Occupier name:
 Occupier contact number:
 Occupier email address:
 Occupier present:

UPRN *: 3404742468

[Download EPC](#) [Download XML](#) [Cancel Report](#) [Documents](#) [ECO](#) [Site Notes](#) [Copy](#) [Previous](#) [Next](#) [Save](#) [Close](#)

After pressing the **ECO** button you will be redirected to the following page.

Recommend Measures		Alternative Measures				
Select	Measure	Saving (£/year)	Saving CO2 (KG)	New SAP	New EI	Reason
<input type="checkbox"/>	A3.Room-in-roof insulation	Cancelled				ECO
<input checked="" type="checkbox"/>	Q. Internal or external wall insulation	211	60	56	46	
<input checked="" type="checkbox"/>	W. Floor insulation	52	63	59	51	
<input checked="" type="checkbox"/>	E. Low energy lighting for all fixed outlets	29	64	60	46	
<input checked="" type="checkbox"/>	G. Heating controls (programmer and TRVs)	33	65	61	51	
<input checked="" type="checkbox"/>	I. Replace boiler with new condensing boiler	239	75	75	46	
<input checked="" type="checkbox"/>	N. Solar water heating	26	76	76	51	
<input checked="" type="checkbox"/>	U. Solar photovoltaic panels, 2.5 kWp	238	85	84	51	
		Potential SAP Rating : B 85.0		Potential EI Rating : B 84.0		

At this point you can choose what information you wish to supply to your customer \ installer base.

Many installers are still using the interim processes put in place by various schemes and are not currently set up to give you the additional data required to use the features within the full ECO assessment process. If the installer only requires basic data calculated from the recommendations on the property then the screen above will allow you to fulfill those needs.

We give you permission to share this document with your installation base to allow them to determine what documentary evidence is required.

The next section describes how to produce documentation for those installers who require simplified or interim data.

Simplified (Interim) Approach

The screen above is similar to the existing recommendation screen but with an additional CO₂ saving column and when a measure is deselected the reason is hardcoded to ECO.

Recommendations in this screen can be safely deselected to give the cost and carbon saving figures per recommendation

Pressing the “Download Draft EPC” will produce a draft EPC which is marked “not for issue” and water marked with draft.

Pressing the “Download XML” button will download the property data in LIG 16 XML format and recommendations selected in the screen above.

Pressing the “Download spreadsheet” button will download the following spreadsheet. (Shown on the next page)

Pressing the “Download Site Notes” button will download the site notes for the property data along with the selected recommendations.

Pressing the “Approved ECO” button will download the site notes for the property data along with the selected recommendations.

Quidos Energy Savings Worksheet				
Address: 114, Stowey Road, Yatton, BS49 4EB				
RRN : 1234-1234-1234-1234-1234				
Annual energy consumption (kWh)		10004.86		
Annual CO2 output (kg)		3000.343		
Annual energy cost (£)		700.71		
Annual heating and hot water costs (£)		600.48		
Recommendation	Description	Energy Savings (kWh)	CO2 Savings (kg)	Cost Savings (£)
E	Low energy lights	315	54	15
G	Heating controls for wet central heating system	948	182	39
I	Upgrade boiler same fuel	2889	563	102
N	Solar water heating	812	161	27
O	Double glazing	660	128	20
U	Photovoltaics	5013	908	226

Full ECO calculations

Pressing the “ECO Scoring Tool” button, will allow you to generate ECO scoring reports for Carbon and Cost savings per measure based on the BRE approved Quidos RdSAP engine suitable for submission directly or via a third party to the Energy Companies.

Note: Quidos Limited accepts no liability for direct or indirect losses associated with the use of, or the reports generated by this tool.

Rather than a set of recommendations produced by the RdSAP engine each ECO measure is manually added and the cost \ Carbon saving calculated.

To add a measure simply press the add button.

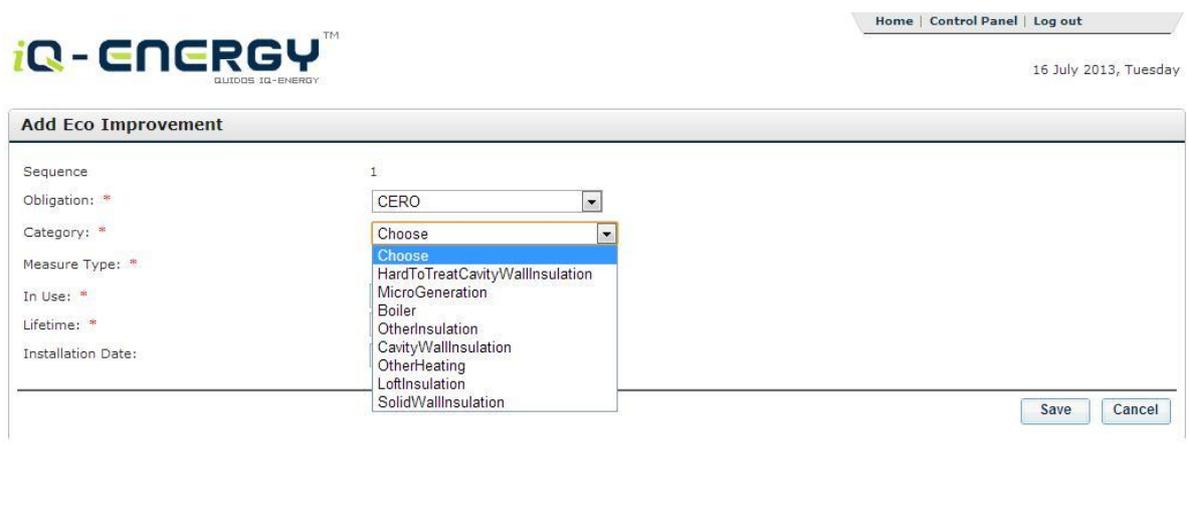


The screenshot shows the top navigation bar with links for Home, Control Panel, and Log out. The date is 16 July 2013, Tuesday. Below the navigation bar, there is a section for ECO Status with a prompt to fill in information. A red circle highlights the 'Add' button. To the right of the 'Add' button are buttons for 'Calculate', 'Create PDF', 'Create CSV', 'Create XML', and 'Close'. Below this is a table header with columns: Sequence, Measure Type, Installation Parameters, Obligation & Category, The Results, and Operation.

You will need to fill in those fields marked with a star (*)

The Obligation chosen does not affect the calculation itself, but will appear on the reports produced.

The ‘Category’ field is an intelligent field and only the eligible measures based on the property data entered will be displayed in the list.



The screenshot shows the 'Add Eco Improvement' form. The form has a title bar with 'Home | Control Panel | Log out' and the date '16 July 2013, Tuesday'. The form fields are: Sequence (1), Obligation: * (CERO), Category: * (dropdown menu open showing options: Choose, HardToTreatCavityWallInsulation, MicroGeneration, Boiler, OtherInsulation, CavityWallInsulation, OtherHeating, LoftInsulation, SolidWallInsulation), Measure Type: *, In Use: *, Lifetime: *, and Installation Date: (empty). There are 'Save' and 'Cancel' buttons at the bottom right of the form.

The In Use factor and life time of the measure will be automatically populated from the measure selected.

Note: to use the approved software you must know the measure that will be installed in the property, this might be the u-value of the insulation or the make and model of the new boiler to be installed. The installation date is key to determine the appropriate carbon saving for the measure and must be the date of completion of the measure.

See chapter 9 of the OFGEM guidance for suppliers for more information. The guidance can be downloaded from this location.

<http://www.ofgem.gov.uk/Sustainability/Environment/ECO/guidance/Pages/index.aspx>

After you have completed the fields, press **Save**.

Add Eco Improvement

Sequence: 1

Obligation: *

Category: *

Measure Type: *

In Use: *

Lifetime: *

Installation Date:

Heating Source:

Efficiency Source:

Heating Fuel:

Brand Name:

Model Name:

Model Qualifier:

Apply System:

To edit the measure click on the measure in the Measure Type column, to delete the measure click on the delete link in the operation column.

At this point you can press **Calculate** to generate the ECO Scores for this measure.

ECO Status: Fill in the information

Sequence	Measure Type	Installation Parameters	Obligation & Category	The Results	Operation
1	Non_QB_installation	Lifetime : 12 In Use : 0.0 Installation Date :	Obligation :HHCRO Category :Boiler	Annual Cost Saving : 0.0 Cost Score : 0.0 Annual Carbon Saving : 0.0 Carbon Score : 0.0 Cost Per Carbon Saving : Implementation Cost : 0.0 0.0	Delete

To re-edit the measure press the **Recalculate** button.

ECO Status: Calculate

Finish

Recalculate

Sequence	Measure Type	Installation Parameters	Obligation & Category	The Results	
1	Non_QB_installation	Lifetime : 12 In Use : 0.0 Installation Date :	Obligation : HHCRO Category :Boiler	Annual Cost Saving : 343.33 Carbon Score : 0.0 Implementation Cost : 0.0	Cost Score : 4119.96 Annual Carbon Saving : 0.0 Cost Per Carbon Saving : 0.0

You can add additional measures (by clicking on **Add**), In the example below heating controls have now been added.

Pressing **finish** will close and lock the ECO Score, it cannot be re-calculated past this point and a support ticket will need to be logged to re-open the ECO measures screen.

ECO Status: Calculate

Finish

Recalculate

Sequence	Measure Type	Installation Parameters	Obligation & Category	The Results	
1	Non_QB_installation	Lifetime : 12 In Use : 0.0 Installation Date : 22/07/2013	Obligation : HHCRO Category :Boiler	Annual Cost Saving : 343.33 Carbon Score : 0.0 Implementation Cost : 0.0	Cost Score : 4119.96 Annual Carbon Saving : 0.0 Cost Per Carbon Saving : 0.0
2	Heating_controls	Lifetime : 12 In Use : 0.0 Installation Date : 22/07/2013	Obligation : HHCRO Category :OtherHeating	Annual Cost Saving : 37.28 Annual Carbon Saving : 0.0 Cost Per Carbon Saving : 0.0	Cost Score : 447.36 Carbon Score : 0.0 Implementation Cost : 0.0

Once the ECO measures have been completed, the scores can be downloaded as a **PDF**, in a **CSV** file (suitable for opening in Excel) or as an **XML** document.

ECO Status: Finish

Create PDF

Create CSV

Create XML

Close

Sequence	Measure Type	Installation Parameters	Obligation & Category	The Results	
1	Non_QB_installation	Lifetime : 12 In Use : 0.0 Installation Date : 22/07/2013	Obligation : HHCRO Category :Boiler	Annual Cost Saving : 343.33 Carbon Score : 0.0 Implementation Cost : 0.0	Cost Score : 4119.96 Annual Carbon Saving : 0.0 Cost Per Carbon Saving : 0.0
2	Heating_controls	Lifetime : 12 In Use : 0.0 Installation Date : 22/07/2013	Obligation : HHCRO Category :OtherHeating	Annual Cost Saving : 37.28 Annual Carbon Saving : 0.0 Cost Per Carbon Saving : 0.0	Cost Score : 447.36 Carbon Score : 0.0 Implementation Cost : 0.0

After you downloaded the relevant document, you can go back to the RdSAP calculation by clicking on **Close**. You will be able to return to the page by pressing the ECO button.



Home | Control Panel | Log out

16 July 2013, Tuesday

ECO Status: Finish

Create PDF

Create CSV

Create XML

Close

Sequence	Measure Type	Installation Parameters	Obligation & Category	The Results	
1	LI_ceiling_level_virgin	Lifetime : 42 In Use : 0.35 Installation Date :	Obligation : CERO Category :LoftInsulation	Annual Cost Saving : 0.0 Annual Carbon Saving : 0.0 Cost Per Carbon Saving : 0.0	Cost Score : 0.0 Carbon Score : 0.0 Implementation Cost : 0.0