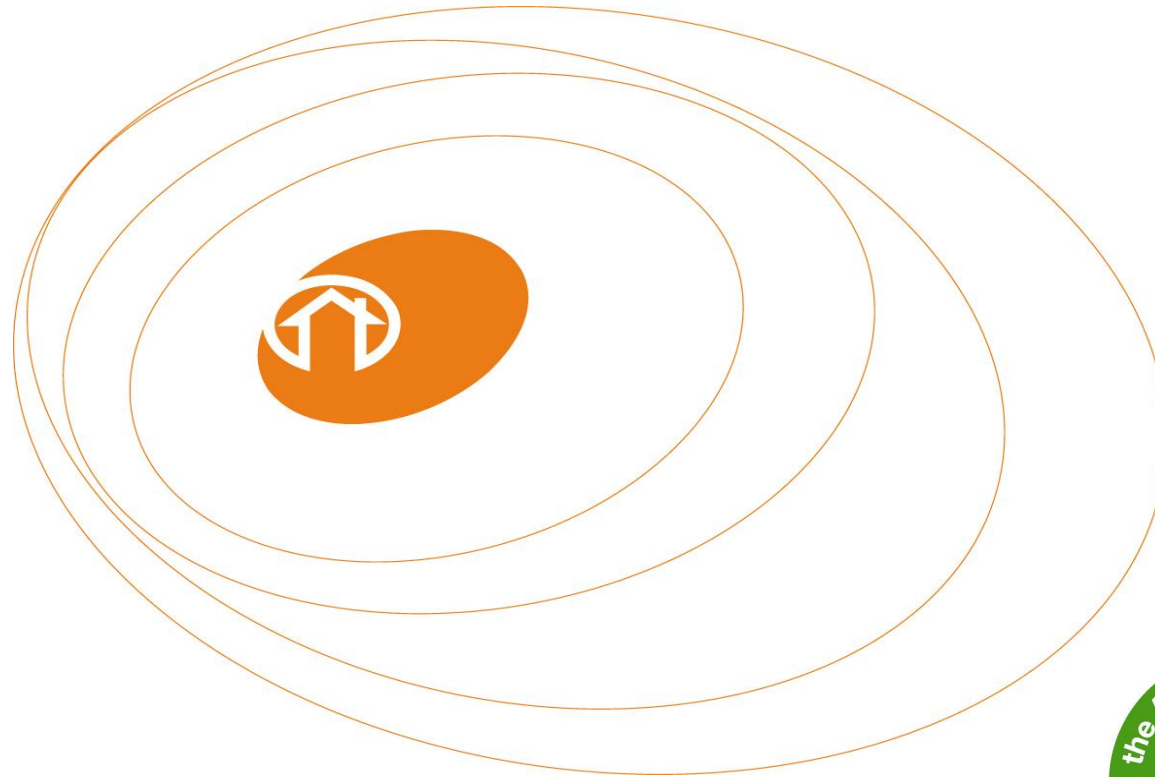


Bill Wilkinson Energy Audit Company



Energy Audit Company

- Local authority and RSL, incl fuel poverty (Beacon Councils)
- Research projects
- Energy databases
- Affordable warmth strategies
- Code and Ecohomes consultancy
- Energy plans since 1995
- EPCs on stock transfer 17,000!
- RDSAP training

www.energyaudit.co.uk

www.unoenergy.co.uk



Funding changes and challenges

- Green Deal
- ECO
- Area based schemes
- Rural aspects
- Reduced funding for fuel poor
- DECC competition
- Green Deal Cashback



LA involvement essential

- Trusted brand
 - Data on housing stock
 - Local knowledge
 - Affordable warmth
 - Area schemes for ECO/Affordable warmth
 - Health agenda
- how can UNO help?

Local authorities are extremely important to funders – There is no regional or local direction of ECO, so that areas which can attract funding will benefit more than others

UNO Energy database

- Every address in LA
- Record of individual energy characteristics (insulation, heating, property age, size etc)
- Uses data from primary to RDSAP+
- 100 reference fields
- Filter by any data item and result
- Hold data on areas as well as addresses
- Used to target, plan and report on progress
- Model housing stock for 2020 emissions
- HECA reporting



UNO to date

- Over 40 local authorities, 17% of national stock
- Data from EPCs, 900,000 addresses in UNO
- Used in Warm Zones
- Fuel poverty assessments for gas connections (Warm Wales, CES, National Grid Affordable Warmth)
- Warm Front 2,500,000 properties



Housing stock modelling

- Compare areas – LSOA, postcode
- With UNO – measures calculated by address
- No archetypes needed
- Vary measure costs, interest rates, etc
- Estimates ECO points and costs
- Summarises totals for area

Unlike some modelling tools UNO aims to have a large sample of real data (not probabilities) by property address. This makes it essential for updating and reporting on progress.

EPC data

- Huge increase in coverage of private stock
- Sample sizes large enough at LSOA
- Not RDSAP but better than other data
- Use for ELASH reporting (average SAP, weighting by tenure)
- Can be updated by LA

The availability of information from Energy Performance Certificates has transformed our knowledge of the private sector stock with over 8 million certificates issued

Energy database – main screen

The screenshot displays the UNO 2010 Energy Database main screen. The window title is "UNO 2010" and the status bar indicates "Currently connected to C:\UNO 2010\Version 3.5\UNO 2010\Resources\Test Database.mdb". The menu bar includes "File", "Tools", and "Options".

The main data area is a table with the following columns: ID, Marker, UPRN, Number, Block, Number, Extension, Street, Locality, Town, County, Postcode, and SAP. The table contains 19 rows of data, all for addresses in Great Burton, Leicestershire, GB1 2DA. The SAP ratings range from 33 to 72.

ID	Marker	UPRN	Number	Block	Number	Extension	Street	Locality	Town	County	Postcode	SAP
1	<input type="checkbox"/>	100050688510			1		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	33
2	<input type="checkbox"/>	100050688511			2		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	72
3	<input type="checkbox"/>	100050688512			3		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	51
4	<input type="checkbox"/>	100050688513			4		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	67
5	<input type="checkbox"/>	100050688514			5		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	54
6	<input type="checkbox"/>	100050688515			6		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	64
7	<input type="checkbox"/>	100050688516			7		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	60
8	<input type="checkbox"/>	100050688517			8		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	58
9	<input type="checkbox"/>	100050688518			9		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	57
10	<input type="checkbox"/>	100050688519			10		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	62
11	<input type="checkbox"/>	100050688520			11		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	60
12	<input type="checkbox"/>	100050688521			12		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	59
13	<input type="checkbox"/>	100050688522			13		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	59
14	<input type="checkbox"/>	100050688523			14		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	49
15	<input type="checkbox"/>	100050688524			15		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	57
16	<input type="checkbox"/>	100050688525			16		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	60
17	<input type="checkbox"/>	100050688526			17		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	60
18	<input type="checkbox"/>	100050688527			18		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	54
19	<input type="checkbox"/>	100050688528			19		Wigton Lane		Great Burton	Leicestershire	GB1 2DA	64

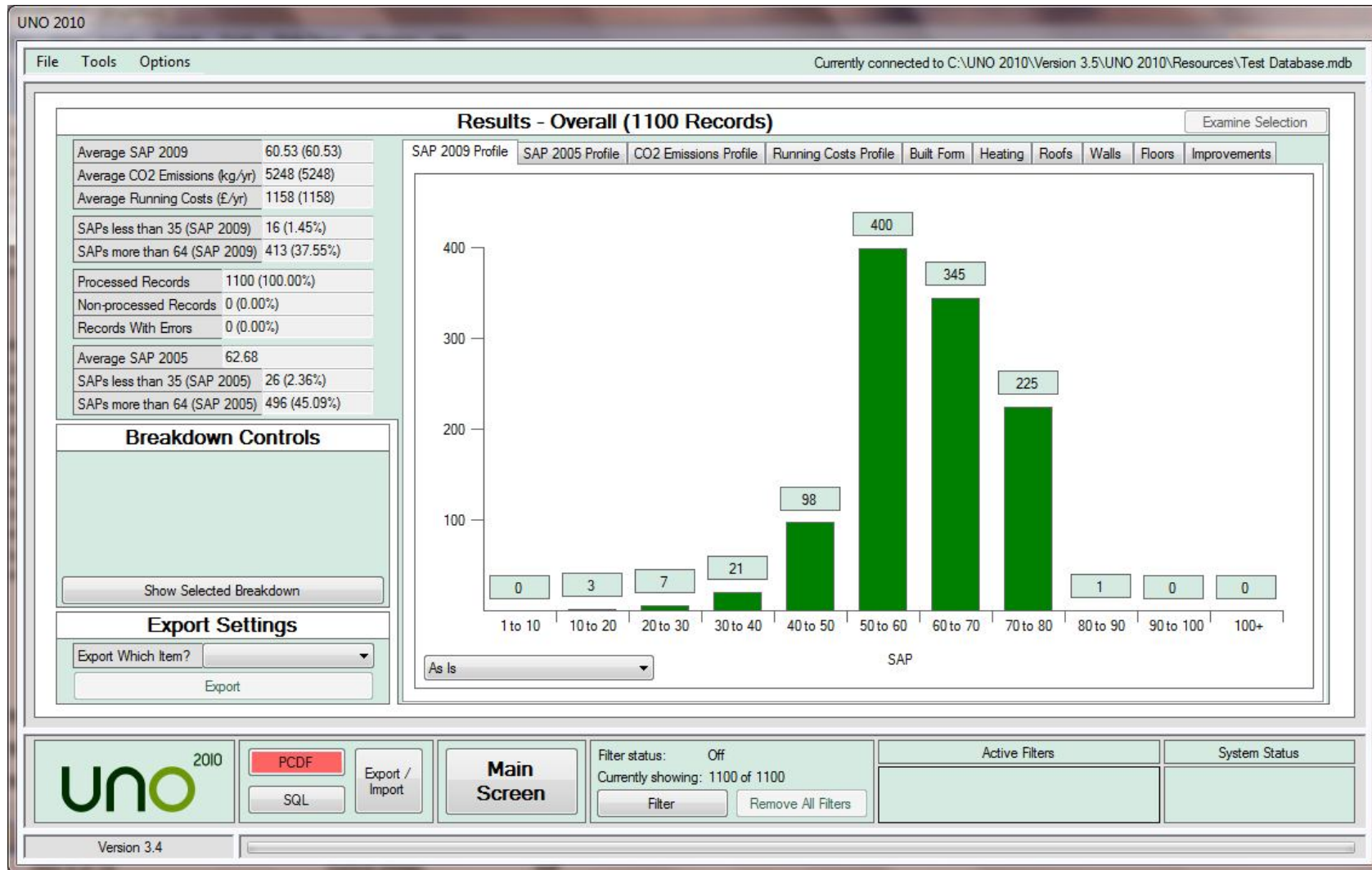
Below the table is a control bar with buttons: "Mark All", "Unmark All", "Copy IDs", "Add Property", "Delete Property", "Batch Process", "Reports", and navigation arrows. A "Page 1 of 2" indicator is also present.

The bottom section of the screen includes the UNO 2010 logo, a "PCDF" button, an "Export / Import" button, and a "Main Screen" button. The filter status is "Off" and "Currently showing: 1100 of 1100". There are "Filter" and "Remove All Filters" buttons. The "Active Filters" and "System Status" sections are currently empty.

Version 3.4

The UNO Energy Database main screen shows all the addresses in the local authority (or in any of the filters) together with an approximate SAP rating (or accurate rating from RDSAP data) for those where there is enough information

Energy database - reports



Standard reports show overall averages and profiles for SAP, CO2, total running costs, and energy attributes such as heating and boiler types, wall construction and insulation, and roof type and insulation.

Energy database - record view

UNO 2010

File Tools Options Currently connected to C:\UNO 2010\Version 3.5\UNO 2010\Resources\Test Database.mdb

Summary of Results

SAP Rating	33
CO2 Emissions	14691 kg/yr
Running Costs	2287 £/yr
Data Level	RDSAP

Address Information

UPRN	100050688510
Address Line 1	
Address Line 2	1 Wigton Lane
Locality	
Town	Great Burton
County	Leicestershire
Postcode	GB1 2DA

Marker Status

Unmarked

Tenure Information

Tenure	Owner occupied
--------	----------------

Record Controls

ID	1
----	---

Back Forward Reset Data Build SAP Worksheet Create Report

Primary Data Property Details Reference Fields Structure Fabric Details Glazing Size Heating Miscellaneous Results Data Info Pictures Improvements

Built Form

Region	England & Wales
Property Type	Bungalow
Built Form	Detached
Age	1950 - 1966
Storeys	1
Rooms	5
Roof Rooms	No

Glazing

Multiple Glazing Percentage	0
-----------------------------	---

Fabric Data

	Type	Insulation
Roof	Pitched, loft access	Joists - 25mm
Wall	Cavity	As built
Floor	Solid	As built

Space And Water Heating

System Type	Storage heaters
Boiler From	
Boiler Type	
Fuel	Electricity
Fan Flue	Open Flue
System	Old large volume storage heaters
Controls	Manual charge control
Emitter	
PCDF Database	
Maker	
Model	
Sec. System	Panel, convector or radiant heaters
Sec. Fuel	Electricity
System Type	Electric immersion (on-peak or off-peak)
Fuel	Electricity
Cylinder Size	Medium (131 - 170 litres)
Cylinder Ins. Type	Jacket
Cylinder Ins. Thickness	25 mm
Cylinder Thermostat	Yes

Flat / Maisonette

Flat Position	
Exposed Sides	

Energy Reduction Measures

Fixed Light Fittings	100
Low Energy Lights	60
Solar Water Heating	No

Reference Fields

1	Ward Name	Central
2	Parish	Burnside
3	Output Area	35UBAH0025
7	Housing Owner	
81	% On Benefit - Output ...	12.4
82	% On Benefit - Postcode	14.8

UNO 2010 PCDF SQL Export / Import **Main Screen** Filter status: Off Currently showing: 1100 of 1100 Filter Remove All Filters Active Filters System Status

Version 3.4

Each address has an individual record summary with further data accessible from the tabs along the top. Reference fields (100) allow the user to define whatever additional information needs to be stored to locate groups of properties or individual households. For fuel poverty purposes we normally populate with small area information such as percentage of people on benefits in the postcode or DECC modelled fuel poverty percentages by LSOA or COA. Energy data can be a minimum data set similar to the EST DIYHEC or higher than RDSAP

Energy database – reference fields

UNO 2010

File Tools Options Currently connected to C:\UNO 2010\Version 3.5\UNO 2010\Resources\Test Database.mdb

Primary Data Property Details **Reference Fields** Structure Fabric Details Glazing Size Heating Miscellaneous Results Data Info Pictures Improvements

Summary of Results

SAP Rating	33
CO2 Emissions	14691 kg/yr
Running Costs	2287 £/yr
Data Level	RDSAP

Address Information

UPRN	100050688510
Address Line 1	
Address Line 2	1 Wigton Lane
Locality	
Town	Great Burton
County	Leicestershire
Postcode	GB1 2DA

Find Address On Google

Marker Status

Unmarked

Tenure Information

Tenure: Owner occupied

Record Controls

ID: 1 Back Forward Reset Data Build SAP Worksheet Create Report

Reference Fields

1	Ward Name	Central
2	Parish	Burnside
3	Output Area	35UBAH0025
4	LA Reference	
5	Map East	459012
6	Map North	402634
7	Housing Owner	
8	Right To Buy	
9	Assumed Loft Insulation	
81	% On Benefit - Output Area	12.4
82	% On Benefit - Postcode	14.8
83	Annual Income	-1
84	Fuel Poverty	-1

2010 **uno** PCDF SQL Export / Import **Main Screen** Filter status: Off Currently showing: 1100 of 1100 Filter Remove All Filters Active Filters System Status

Version 3.4

The next tabs display information in the extra data levels – selection of Reference fields here

Energy database - structure

UNO 2010

File Tools Options Currently connected to C:\UNO 2010\Version 3.5\UNO 2010\Resources\Test Database.mdb

Summary of Results

SAP Rating	33
CO2 Emissions	14691 kg/yr
Running Costs	2287 £/yr
Data Level	RDSAP

Address Information

UPRN	100050688510
Address Line 1	
Address Line 2	1 Wigton Lane
Locality	
Town	Great Burton
County	Leicestershire
Postcode	GB1 2DA

[Find Address On Google](#)

Marker Status

Unmarked

Tenure Information

Tenure: Owner occupied

Record Controls

ID: 1 Back Forward Reset Data Build SAP Worksheet Create Report

Primary Data | Property Details | Reference Fields | **Structure** | Fabric Details | Glazing | Size | Heating | Miscellaneous | Results | Data Info | Pictures | Improvements

Location

Region	England and Wales
Degree Day Region	Midlands
Terrain	Low rise urban or suburban

Description

Property Type	Bungalow
Built Form	Detached
Main Age	1950 - 1966
Storeys	1
Habitable Rooms	5
Number Of Heated Rooms	5

Flats and Maisonettes


Flat Type	
Dwelling Floor	
Corridor	
Sheltered Wall Length	
Exposed Sides	

Extra Structures

Roof Room Present?	No
Extensions?	No extensions
Conservatory	No conservatory

Conservatories

Floor Area	
Glazed Perimeter	
Height	
Double Glazed?	


PCDF
Export / Import
Main Screen
Filter status: Off
Currently showing: 1100 of 1100
Active Filters
System Status

SQL
Filter
Remove All Filters

Version 3.4

Energy database - heating

UNO 2010

File Tools Options Currently connected to C:\UNO 2010\Version 3.5\UNO 2010\Resources\Test Database.mdb

Primary Data Property Details Reference Fields Structure Fabric Details Glazing Size **Heating** Miscellaneous Results Data Info Pictures Improvements

Summary of Results

SAP Rating	33
CO2 Emissions	14691 kg/yr
Running Costs	2287 £/yr
Data Level	RDSAP

Address Information

UPRN	100050688510
Address Line 1	
Address Line 2	1 Wigton Lane
Locality	
Town	Great Burton
County	Leicestershire
Postcode	GB1 2DA

[Find Address On Google](#)

Marker Status

Unmarked

Tenure Information

Tenure	Owner occupied
--------	----------------

Record Controls

ID	1
----	---

Main Heating System

Heating Systems	1
Type	Storage heaters
Efficiency From	
Boiler Type	PCDF Database
Main Fuel	Electricity
Fan Flue	
Open Flue	
System	Old large volume storage heaters
Manufacturer	
Model	
Heating Controls	Manual charge control
Emitter Type	

Second Heating System

Present?	Yes
Fuel	Electricity
System	Panel, convector or radiant heaters


Water Heating System

Water Type	Electric immersion (on-peak or off)
Water Fuel	Electricity
Type Of Immersion	Dual
Cylinder Size	Medium (131 - 170 litres)
Cylinder Insulation	Jacket
Insulation Thickness	25 mm
Cylinder Thermostat	Yes

Fuel Supply

Electricity Meter	Dual
Gas From Mains?	Yes

Back
Forward
Reset Data
Build SAP Worksheet
Create Report



Version 3.4

PCDF

SQL

Export / Import

Main Screen

Filter status: Off

Currently showing: 1100 of 1100

Filter Remove All Filters

Active Filters

System Status

Green Deal Package

UNO 2010

File Tools Options Currently connected to C:\UNO 2010\Version 3.5\UNO 2010\Resources\Test Database.mdb

Summary of Results

SAP Rating	33
CO2 Emissions	14691 kg/yr
Running Costs	2287 £/yr
Data Level	RDSAP

Address Information

UPRN	100050688510
Address Line 1	
Address Line 2	1 Wigton Lane
Locality	
Town	Great Burton
County	Leicestershire
Postcode	GB1 2DA

[Find Address On Google](#)

Marker Status

Unmarked

Tenure Information

Tenure	Owner occupied
--------	----------------

Record Controls

ID	1
----	---

Primary Data Property Details Reference Fields Structure Fabric Details Glazing Size Heating Miscellaneous Results Data Info Pictures Improvements

Improvement	SAP	CO2 (kg/yr)	Running Costs (£/yr)	Installation Cost (£)	Payback Period (yr)	Meets Golden Rule?	Lifetime Carbon Savings (£)	Lifetime AW Savings (£)	ECO Point Cost (£/t)	AW Point Cost
Hot Water Cylinder Insulation	34	14,468	2,260	30	1.1	Yes	5.58	780	5.3732	0.0385
Loft Insulation	46	12,777	2,032	560	2.5	Yes	42.27	8,765	13.2549	0.0639
Cavity Wall Insulation	55	11,637	1,879	507	3.3	Yes	28.49	5,909	17.7832	0.0858
Double Glazing	62	10,336	1,704	3,234	18.5	No	32.52	5,142	99.4622	0.6290

Package Funding

Annual Repayments: 422 £/yr	Total Installation Cost: £4331
Annual Savings: 583 £/yr	Householder Contribution: £ <input type="text"/>

Version 3.4

PCDF

SQL

Export / Import

Main Screen

Filter status: Off

Currently showing: 1100 of 1100

Active Filters

System Status

The improvement tab to the top far right, displays the applicable improvements in order of cost effectiveness, and whether the annual savings would be enough to pay off the loan (meets Golden Rule). The software (automatically in Green Deal mode) adds measures to create an optimum package.

As this example is a detached bungalow with an expensive fuel and little insulation, the savings from the very cost effective hot water cylinder jacket, loft and cavity wall insulation will pay for double glazing and while still leaving the householder £161 a year better off.

ECO example

UNO 2010
 File Tools Options
 Currently connected to C:\UNO 2010\Version 3.5\UNO 2010\Resources\Test Database.mdb

Summary of Results

SAP Rating	59
CO2 Emissions	7497 kg/yr
Running Costs	1846 £/yr
Data Level	Primary

Address Information

UPRN	100050691971
Address Line 1	
Address Line 2	2 Ambleside Close
Locality	
Town	Great Burton
County	Leicestershire
Postcode	GB1 4JF

Find Address On Google

Marker Status

Unmarked

Tenure Information

Tenure	Owner occupied
--------	----------------

Record Controls

ID	591
----	-----

Back Forward Reset Data Build SAP Worksheet Create Report

Primary Data Property Details Reference Fields Structure Fabric Details Glazing Size Heating Miscellaneous Results Data Info Pictures Improvements

Built Form

Region	England & Wales
Property Type	House
Built Form	Semi-detached
Age	1900 - 1929
Storeys	2
Rooms	6
Roof Rooms	No

Glazing

Multiple Glazing Percentage	100
-----------------------------	-----

Fabric Data

	Type	Insulation
Roof	Pitched, loft access	Joists - 250mm
Wall	Solid brick	As built
Floor	Susp. timber	As built

Space And Water Heating

System Type	Boiler		
Boiler From	PCDF		
Boiler Type	Condensing combi		
Fuel	Mains gas		
Fan Flue	Yes	Open Flue	Room-sealed
System	Condensing combi with auto-ignition (post 97)		
Controls	Programmer, room thermostat and TRVs		
Emitter	Radiators		
PCDF Database			
Maker	Vokera		
Model	Vokera Unica		
Sec. System			
Sec. Fuel			
System Type	From first main heating system		
Fuel	Mains gas		
Cylinder Size	No cylinder		
Cylinder Ins. Type			
Cylinder Ins. Thickness			
Cylinder Thermostat			

Flat / Maisonette

Flat Position	
Exposed Sides	

Energy Reduction Measures

Fixed Light Fittings	100
Low Energy Lights	100
Solar Water Heating	No

Reference Fields

1	Ward Name	Burton North
2	Parish	Marwood
3	Output Area	35UBAH0023
7	Housing Owner	
81	% On Benefit - Output ...	17
82	% On Benefit - Postcode	9

2010
 uno
 Version 3.4

PCDF SQL Export / Import Main Screen

Filter status: On
 Currently showing: 3 of 1100
 Filter Remove All Filters

Active Filters System Status

Wall construction	Solid brick
Roof insulation t...	250 mm

ECO is intended to subsidise energy improvements such as solid wall insulation which are desirable from the national perspective – energy security, climate change, but are not yet cost effective for the individual householder.

This older solid walled house has had all of the obvious simple work carried out - double glazing, loft insulation, and a new heating system.

ECO example

UNO 2010

File Tools Options Currently connected to C:\UNO 2010\Version 3.5\UNO 2010\Resources\Test Database.mdb

Summary of Results

SAP Rating	59
CO2 Emissions	7497 kg/yr
Running Costs	1846 £/yr
Data Level	Primary

Address Information

UPRN	100050691971
Address Line 1	
Address Line 2	2 Ambleside Close
Locality	
Town	Great Burton
County	Leicestershire
Postcode	GB1 4JF

[Find Address On Google](#)

Marker Status

Unmarked

Tenure Information

Tenure: Owner occupied

Record Controls

ID: 591

Improvement	SAP	CO2 (kg/yr)	Running Costs (£/yr)	Installation Cost (£)	Payback Period (yr)	Meets Golden Rule?	Lifetime Carbon Savings (t)	Lifetime AW Savings (£)	ECO Point Cost (£/t)	AW Point Cost
Solid Wall Insulation	72	5,921	1,498	10,113	29.0	No	39.42	11,616	256.5494	0.8706

Package Funding

Annual Repayments: 690 £/yr	Total Installation Cost: £10113
Annual Savings: 348 £/yr	Householder Contribution: £

[Analyse Improvements](#) [Create Energy Report](#)

[Add](#) [Insert](#) [Delete](#) [Clear](#)

Back Forward Reset Data Build SAP Worksheet Create Report

Version 3.4

PCDF SQL Export / Import

Main Screen

Filter status: On
Currently showing: 3 of 1100

[Filter](#) [Remove All Filters](#)

Active Filters

Wall construction	Solid brick
Roof insulation t...	250 mm

System Status

Adding solid wall insulation cuts fuel bills by £248 a year, but repayments are much more than the savings.

ECO example

UNO 2010

File Tools Options Currently connected to C:\UNO 2010\Version 3.5\UNO 2010\Resources\Test Database.mdb

Primary Data Property Details Reference Fields Structure Fabric Details Glazing Size Heating Miscellaneous Results Data Info Pictures Improvements

Summary of Results

SAP Rating	59
CO2 Emissions	7497 kg/yr
Running Costs	1846 £/yr
Data Level	Primary

Address Information

UPRN	100050691971
Address Line 1	
Address Line 2	2 Ambleside Close
Locality	
Town	Great Burton
County	Leicestershire
Postcode	GB1 4JF

Find Address On Google

Marker Status

Unmarked

Tenure Information

Tenure: Owner occupied

Record Controls

ID: 591

Improvement	SAP	CO2 (kg/yr)	Running Costs (£/yr)	Installation Cost (£)	Payback Period (yr)	Meets Golden Rule?	Lifetime Carbon Savings (t)	Lifetime AW Savings (£)	ECO Point Cost (£/t)	AW Point Cost
Solid Wall Insulation	72	5,921	1,498	5,078	14.6	Yes	39.42	11,616	128.8208	0.4371

Package Funding

Annual Repayments: 346 £/yr

Annual Savings: 348 £/yr


Total Installation Cost: £10113

Householder Contribution: £ 5035

Analyse Improvements Create Energy Report

Add Insert Delete Clear

Back Forward Reset Data Build SAP Worksheet Create Report



Version 3.4

PCDF

SQL

Export / Import

Main Screen

Filter status: On

Currently showing: 3 of 1100

Filter Remove All Filters

Active Filters

Wall construction: Solid brick

Roof insulation t...: 250 mm

System Status

A subsidy (ECO or other) of around 50% will equalize repayments and savings, although whether a fuel utility chooses to invest is a commercial decision based on the cost of carbon saved.

ECO solid wall and loft to street

uno UNO 2010
File Tools Options
Currently connected to C:\UNO 2010\Version 3.5\UNO 2010\Resources\Test Database.mdb

ID	Marker	UPRN	Number	Block	Number	Extension	Street	Locality	Town	County	Postcode	SAP
161	<input checked="" type="checkbox"/>	010006576772			1		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	60
162	<input checked="" type="checkbox"/>	010006576783			2		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	60
165	<input checked="" type="checkbox"/>	010006576811			5		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	60
166	<input checked="" type="checkbox"/>	010006576773			6		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	50
167	<input checked="" type="checkbox"/>	010006576774			7		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	60
168	<input checked="" type="checkbox"/>	010006576775			8		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	65
169	<input checked="" type="checkbox"/>	010006576776			9		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	43
170	<input checked="" type="checkbox"/>	010006576777			10		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	65
171	<input checked="" type="checkbox"/>	010006576778			11		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	59
172	<input checked="" type="checkbox"/>	010006576779			12		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	61
174	<input checked="" type="checkbox"/>	010006576781			14		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	38
176	<input checked="" type="checkbox"/>	010006576784			16		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	45
177	<input checked="" type="checkbox"/>	010006576785			17		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	56
178	<input checked="" type="checkbox"/>	010006576786			18		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	61
180	<input checked="" type="checkbox"/>	010006576788			20		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	47
181	<input checked="" type="checkbox"/>	010006576789			21		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	65
183	<input checked="" type="checkbox"/>	010006576791			23		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	49
184	<input checked="" type="checkbox"/>	010006576792			24		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	61
185	<input checked="" type="checkbox"/>	010006576793			25		Lancaster Road		Great Burton	Leicestershire	GB1 8AP	48

Mark All Unmark All Copy IDs Add Property Delete Property Batch Process Reports

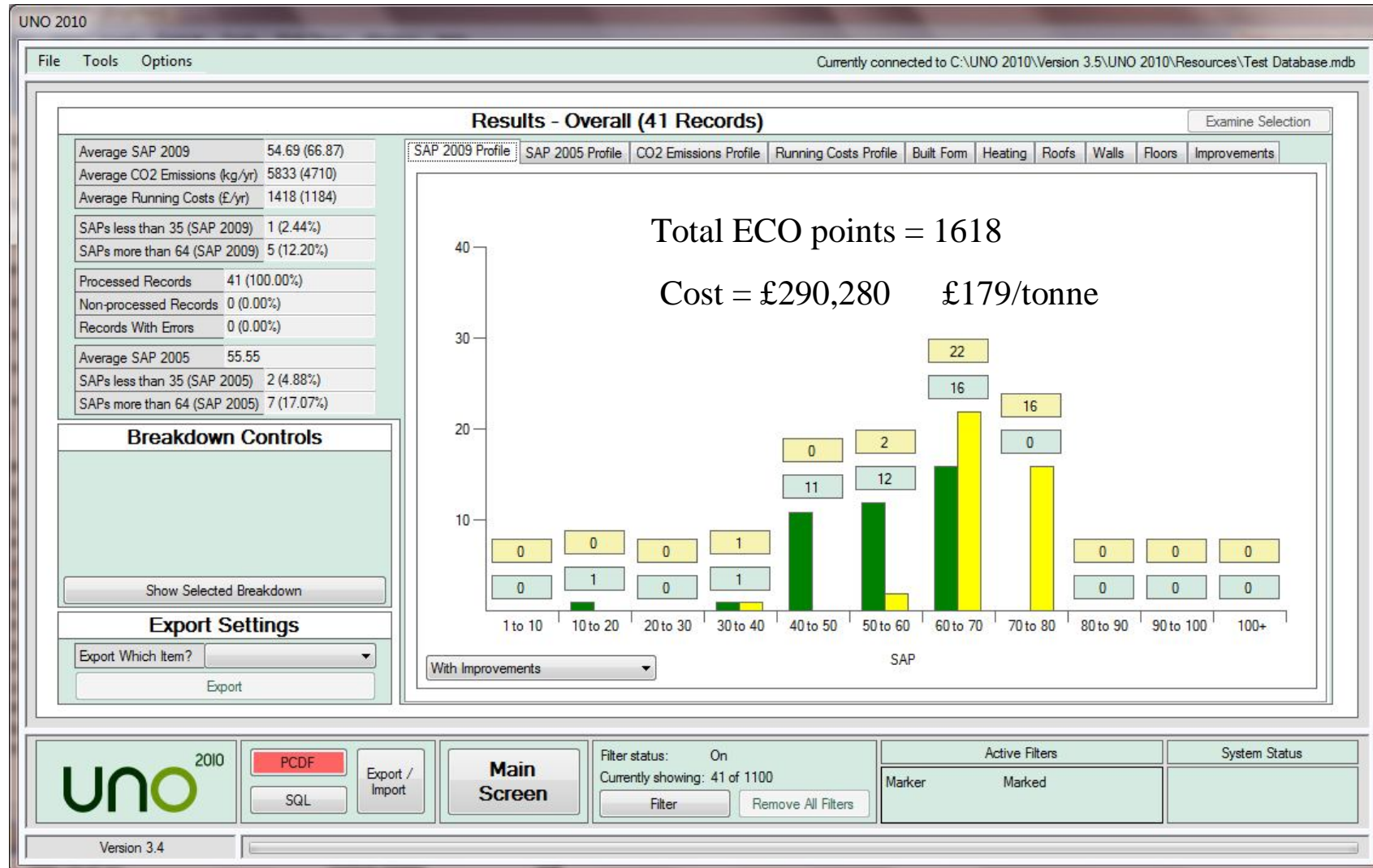
Page 1 of 1

uno 2010 PCDF SQL Export / Import Main Screen Filter status: On Currently showing: 41 of 1100 Active Filters Marker Marked System Status

Version 3.4

UNO is a stock analysis tool that applies calculations automatically to all of the housing stock or a selection such as a Lower Super Output Area or street. In this example a street of house with solid walls has been selected, and the software measures restricted to the ECO measures of solid walls (and loft insulation where needed). The housing stock is a mix of semis and terraces, with heating mainly gas, but with a small number having room heaters or storage heaters (lower SAP ratings in the profile).

ECO solid wall and loft to street



Version 3.4

PCDF

SQL

Export / Import

Main Screen

Filter status: On

Currently showing: 41 of 1100

Filter Remove All Filters

Active Filters

Marker Marked

System Status

The average SAP increases by over 12 points, and running costs reduced by £234 a year on average. The software estimates the cost of carrying out the work (using a price per m2 set by the user) and the savings to give an indication of the cost of saving a tonne of CO2 over the lifetime of the measure (36 years for solid wall insulation).

Preparation for Green Deal and ECO

- Existing data into UNO (we do this)
- LAs have access to more data
- Include EPC data – around 30% of stock
- Analyse areas for CSCO and rural
- Look at measures packages
- Bargain from a strong position



UNO further info

- Websites – with rolling demo
- Options for both individual LAs and partnerships
- Ring Office 01665 605010
- Email marionhart@energyaudit.co.uk
www.energyaudit.co.uk
www.unoenergy.co.uk

