

CO2i - Energy Efficiency in the Home

Tool Kit to promote energy saving in the home, and protect the well being of residents.

Contents:

Chapter 1	<u>Purpose statement –aims and objectives of the Initiative</u>
Chapter 2	<u>Pre-considerations to running the Initiative</u>
Chapter 3	<u>Running a carbon Dioxide Initiative</u>
Appendix 1	<u>Press Release</u>
Appendix 2	<u>CO2i Matrix</u>
Appendix 3	<u>Application Form</u>
Appendix 4	<u>Approval Letter</u>
Appendix 5	<u>Claim Form</u>
Appendix 6	<u>Letter to householder</u>

Chapter 1

CO2i - Energy Efficiency in the Home

Introduction – aims and objectives of the Initiative

Health Challenge Wales

1. The key themes of Health Challenge Wales have been selected because they are considered to be those issues that constitute a significant proportion of the ill health that could be avoided. The promotion of well being is the underlying principle of Health Challenge Wales, and prevention of Accidents and Injuries is one of the key themes. This intervention improves housing conditions by promoting ways to reduce energy use in the home addresses the issue of excess winter deaths in the elderly and vulnerable by promoting energy efficient homes, allowing the elderly to keep warm, and thereby reduces the likelihood of accidents and injuries arising from falls to the elderly whilst compromised by cold.
2. The detrimental effect of cold on the elderly is well documented, and has led to the development of a number of government initiatives. The Department of Trade and Industry estimates that numbers of excess deaths in winter due to cold could be as many as 30,000. Excess winter mortality is the increase in numbers dying during the 4 month winter period of December to March compared with the rest of the year. The department notes that 'About half of the extra deaths in winter are due to CHD or stroke. About a quarter are due to respiratory disease. Blood thickens in cold conditions and makes circulation more difficult.' It is further noted that 'The ideal living room temperature for older people is about 21°C. Once room temperatures start to drop, the risks of respiratory illness, stroke, heart attack and hypothermia increase'. In order to address the issue of the elderly living in cold homes the Government provides Winter Fuel Payments, designed to ensure that the elderly can keep their homes warm in winter.
3. The UK government spends over £1.6 billion a year on Winter Fuel Payments to ensure that the elderly can keep their homes warm in winter. Winter Fuel Payments are worth £200 (£300 to the over 80s) and are paid in December to in excess of 8 million households containing people over 60¹. Most elderly people in Britain live independently in their own homes. The English House Condition Survey in 1993 found that 10% of people aged over 65 were living in the worst housing category. Although this is the same proportion as in the general population, it represents around 700,000 households.² Home repairs may be overlooked by some elderly people, and housing grants are given least frequently to people aged over 75. In many cases the elderly live in houses which provide more accommodation than they need, and which require maintenance work to be carried out. Under-occupancy is associated with lower

¹ DTI figures 2004

² Department of the Environment. English house condition survey 1991. London: HMSO, 1993

incomes because it is likely that only one person's income contributes towards heating costs.

4. There is a tendency for people living alone in a large property to heat only one or two rooms which results in lower over-all temperatures and increased condensation. In general larger families have warmer homes and single persons have cooler homes³. There is an association between lack of central heating and higher winter mortality indicating that temperature is a factor⁴. There is around 2% excess mortality for each degree Celsius fall in outdoor temperature below 19°C, and an increase of 1.5% odds of dying in winter for every 1°C reduction in 24 hour mean winter temperature. The increase in mortality is greatest in houses predicted to have lowest indoor temperature due to poor thermal efficiency⁵.
5. The vulnerable elderly are asset rich, being the owners of real property of considerable value, but cash poor, relying on pensions to live⁶. In many cases the outstanding works of repair and maintenance are those that would lead to reduction in energy use, such as the provision of loft insulation, draught proofing and servicing or replacing inefficient boilers.
6. This initiative, CO2i (pronounced 'Cosy') seeks to promote well being by promoting energy saving in the home. It provides assistance for qualifying households, determined by reference to the Welsh Index of Multiple Deprivation, for measures such as loft and cavity wall insulation, draught proofing, and energy efficient heating boilers. In making it cheaper for the vulnerable to keep warm in winter it addresses one of the causes of excess winter deaths, and reduces the risk of falls and accidents to the elderly in their own homes during the winter. It has the incidental effect of reducing carbon emissions in line with Home Energy Conservation Act targets.

³ Fuel Poverty and Older People. West Midlands Public Health Observatory.

⁴ Aylin P, Morris S, Wakefield J, Grossinho A, Jarup L, and Elliott P (2001) Temperature, housing, deprivation and their relationship to excess winter mortality in Great Britain, 1986 – 1996. *International Journal of Epidemiology* 30: 1100-1108

⁵ Wilkinson P, Landon M, Armstrong B, Stevenson S, Pattenden S, Mckee M, & Fletcher T (2001) Cold Comfort. The social and environmental determinants of excess winter death in England 1986-96. The Policy Press, Bristol.

⁶ Caring for Older People: Homes and Housing for Elderly People. Wanklyn P *BMJ* 1996;313:218-221(27 July)

Chapter 2

CO2i - Energy Efficiency in the Home

Running an Initiative

1. Initial considerations

Initial considerations for this project have to be addressed, including;

- What is the target group?
- Will the outcome have the desired outcome,
- How can the target group be reached?
- Who are the key partners in the initiative?
- How will the initiative be evaluated?
- Will the initiative deliver value for money?

2. Target Group

The group benefiting from this initiative is the elderly and vulnerable living in their own or in privately rented accommodation. There is a direct correlation between cold houses and increased levels of winter mortality, and, as discussed in Chapter 1, the elderly and vulnerable are more likely to live in under-occupied houses requiring maintenance work, and are therefore the group that will accrue most benefit from the intervention.

3. Achieving the desired outcome

The purpose of the initiative is to increase the energy efficiency of the properties occupied by the target group. This was done in the pilot project by providing grant assistance for the provision of

- Loft Insulation (up to 275 mm)
- Loft Insulation top up
- Cavity wall insulation (beads or fibre)
- Draught proofing for windows and external doors
- Hot water tank jackets
- Radiator reflector panels(for solid walled properties only)
- Heating controls including Horstmann Thermoplus PRT1 programmable room thermostat design specifically for an elderly and/or disabled person
- 'A' rated condenser boilers (replacing SEDBUK rated 'D' or less boiler or a defective/defunct boiler).

The effect of making repair or replacements as indicated is to improve the energy efficiency of the property, therefore ensuring that it retains heat more effectively. The effect of fluctuation in the external temperature will therefore have a less marked effect inside the property, and the elderly person will be kept warmer for the same financial investment in fuel.

4. Reaching the target group

In the pilot project the project was marketed as a whole authority scheme, but was targeted in areas of highest perceived need. The target group, being the elderly and vulnerable were accessed using a two stage process. The first step was to identify those areas of greatest need using the Welsh Index of Multiple Deprivation 2005. Areas which contained two or more domains (except for housing) from the Welsh Index of Multiple Deprivation 2000 (for housing, health and income) and 2005 (for health, income and employment) were selected as target areas. After identification of these areas the scheme was promoted by door-to-door canvassers issuing a local authority endorsed letter which introduced the scheme. The local authority also engaged with property owners by direct mail shots.

The pilot authority also conducted a marketing campaign, promoting the scheme. The marketing scheme included

- A free-phone number to the local Energy Efficiency Advice Centre, where callers could be advised about the scheme, and then directly referred on to the contractors for survey
- Press releases and editorials in locally circulating newspapers,
- Press releases and Advertorials in the Members Bulletin, and on the Councils Intranet
- Notification to
 - Community Councils
 - Powys Association of Voluntary Organisations,
 - Care and Repair in Powys
 - Mid-Wales Energy Agency
 - NEA Wales

Those adopting the scheme could also consider the use of agencies having a direct interface with the target group, such as the Meals on Wheels Service, local GP surgeries and Community and Day Care Centres as providers of information regarding the scheme.

5. Who are the Key Partners ?

The key partners to the pilot project were the local authority, specialist contractors, who had been subjected to an agreed vetting process, the local Energy Advice Centre, Care and Repair and the Energy Suppliers, through their 'Energy Efficiency Commitment' funding. The local authority departments involved were Public Protection and Social Services.

6. How will the initiative be evaluated?

The success of the initiative in reaching target group was evaluated by profiling the applicants in respect of Age/Sex/Income Status.

The success of the intervention in respect of its effect on individual households was determined by comparison of household energy bills before and after the works had

been undertaken, which demonstrated both the benefits in terms of reductions in kWh used and the reduction in household energy bills to the individual participant.

Whilst the evaluation of the initiative in strict financial and energy usage terms is relatively easy, it is harder to evaluate it in terms of excess winter deaths prevented. Whilst it is likely that the initiative will contribute to reducing excess winter deaths, there are a number of factors that have a contributory effect to falls and rises in the same, and extrapolating the effect of this initiative would be virtually impossible. Recording of admissions to hospitals from the target group suffering from hypothermia or extreme cold related conditions is not sufficiently consistent on a pan-Wales basis to allow for all Wales comparison of figures, however consideration can be given to use of such data as collected by local hospitals, where a greater degree of consistency of recording may be in place. Such figures can be collated and compared prior to the intervention and for the same period after it for evaluation purposes, although it will be necessary to compare like periods and to qualify the figures with any external influences that would have an effect, e.g. long periods of extreme cold etc. Great care would have to be used when quoting such figures, which would be indicative only.

A further benefit of the initiative is the perceived effect on the target group, who may consider themselves to be subjectively better off than they were prior to the intervention. Improved mental health and wellbeing is one of the key themes of Health Challenge Wales, and an improved feeling of wellness is a subjective evaluation measure. This can be measured by a pre- and post intervention questionnaire asking the participants views on the liveability of their accommodation before and after the intervention, and their views as to how this affected their general state of health and well being could be conducted. The results would be instructive, although would have to be cited as indicative only, being based on the subjective views of the participants.

7. Will the initiative deliver value for money?

In the pilot project the local authority contributed less than 50% of the cost of the intervention, the remained of the funding coming from other funding streams, such as grant funding. The approximate cost of the pilot project was £1,369,860, which expenditure was incurred over a period of 6 months. This allowed for the installation of 11,318 energy saving devices in 1863 homes.

Funding for the pilot project was sourced as shown:

Utility EEC	£398,275.00	29%
DTI Clear Skies	£ 32,400.00	2%
Local Authority	£582,706.00	43%
Private Investment	£356,479.00	26%

Given that the cost to the local authority was less than 50% of the total project cost, and that a broad range of valuable improvements were made to a large number of properties, which have the potential effect of improving the health and the quality of life of the occupants it is suggested that this initiative does present value for money.

Chapter 3

CO2i - Energy Efficiency in the Home – Running an Initiative

The Initiative

The Carbon Dioxide Initiative (CO2i) is a partnership between Powys County Council, an energy supplier and specialist contractors. It is practical package of energy efficient improvements designed to improve the health and wellbeing of householders by having warmer homes, and homes that are cheaper to heat. The scheme also reduces carbon emissions.

The Campaign

Prior to the commencement of the scheme it is necessary to determine which households will be eligible to access it, and what works shall attract support. In the pilot project eligibility was determined as shown below:

Householder Eligibility:

- *Available to owner occupiers or private rented tenants (with written landlords consent) only.*
- *18 and over - £500 grant maximum for insulation and heating works*
- *18 and over - £1000 grant maximum for solar hot water heating (for professionally installed systems where the householder was also applying for the DTI 'Clear-Skies' grant).*

Eligible Works:

- *Loft insulation (up to 250mmm)*
- *Loft insulation top up*
- *Cavity wall insulation (beads or fibre)*
- *Draft proofing for windows and external doors*
- *Hot water tank jackets*
- *Radiator reflector panels for solid walled properties*
- *'A' rated condensing boilers (replacing SEDBUK rated 'D' or less boilers or a defective / defunct boiler)*
- *Heating controls*
 - *Thermostatic radiator valves*
 - *Programmable room thermostats*
 - *Programmable*
- *Solar Hot Water Panels*

It is essential to collate a list of contractors who will be used as 'approved contractors' for the scheme. The criteria for selection are a matter for local decision, however it is suggested that it is important that the mechanism for selecting the contractors should be clear and transparent. It is also necessary to determine the mechanism by which applications can be made. In the pilot project householders were invited to contact the Energy Efficiency Advice Centre. Prior to the commencement of the campaign it is suggested that interest can be primed by the use of advertisements in the local press ([Appendix 1](#)),

Where inquiries regarding insulation or heating or solar hot water were dealt with in different ways, as shown.

For an insulation enquiry:

- *The EEAC refers the applicant directly to the contractor who arranges a property survey*
- *Following a survey the contractor will use the 'Matrix' ([Appendix 2](#) shows the matrix used in the pilot project) to determine the Energy Suppliers 'Energy Efficiency Commitment' (EEC) funding, Local Authority grant aid and householders contributions and help complete the application form which is brought to site by the contractor. (The form used in the pilot project is shown as [Appendix 3](#)) The cost per measure should have been determined prior to the commencement of the initiative by the Local Authority.*
- *The contractor submits the application form & estimate to the local authority*
- *Upon receipt of a satisfactory 'Full-Application', the grant office will issue a letter giving 'Approval' ([Appendix 4](#))- which gives consent for the work to begin - and a 'Claim Form'*
- *Once works are completed to the householder's satisfaction they complete the Claim Form ([Appendix 5](#)) and return this accompanied with the contractors 'Invoice' to the grant office.*
- *Upon receipt of a satisfactory Claim Form and Invoice the grant will be released to the applicant or if instructed them directly to the contractor.*

For a heating or solar hot water enquiry:

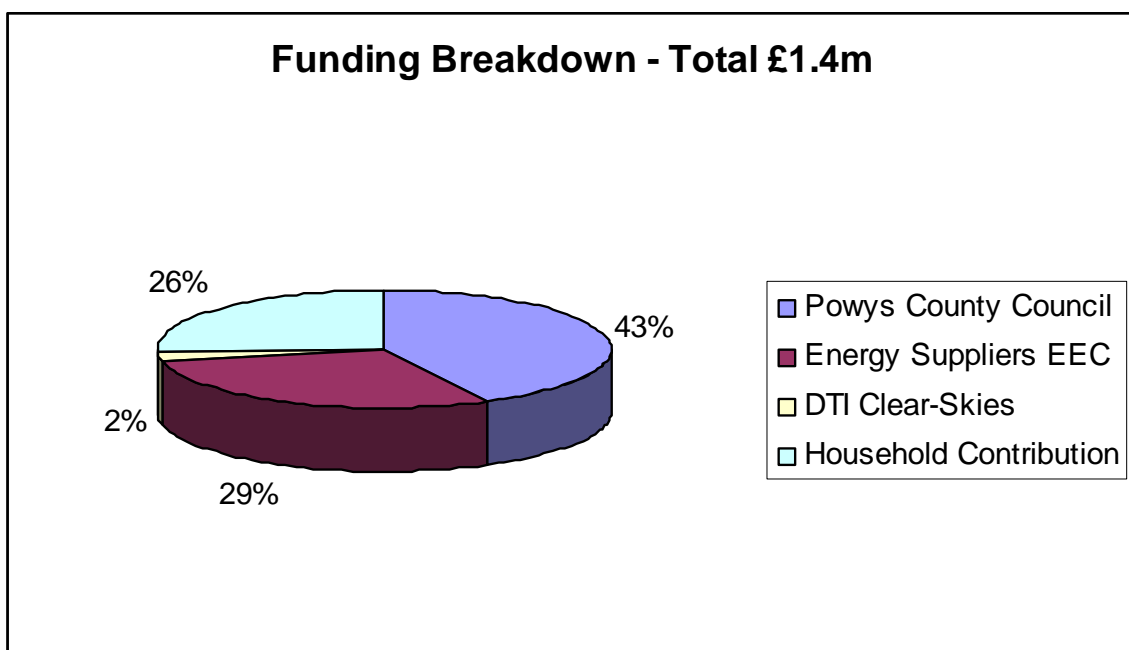
- *The EEAC will send an 'Application Form' (individually numbered and dated) along with the list of 'Local Contractors' and a 'Covering Letter' to the householder ([Appendix 6](#))*
- *The householder has a pre-determined period of time to return the Application Form along with a satisfactory 'Estimate' from their chosen contractor to the relevant grant office – thereafter the application form becomes void.*
- *Upon receipt of a satisfactory 'Full-Application', the grant office will issue a letter giving 'Approval' ([Appendix 4](#)) - which gives consent for the work to begin - and a 'Claim Form' ([Appendix 5](#))*

- *Once works are completed to the householder's satisfaction they complete the Claim Form and return this accompanied with the contractors 'Invoice' to the grant office.*
- *Upon receipt of a satisfactory Claim Form and Invoice the grant will be released to the applicant or if instructed them directly to the contractor.*

Resource implications and funding

The project requires very little revenue funding to get off the ground other than staff project management and administration time and basic stationary found in the typical office.

The core of funding is direct capital expense which is spent on the improvement measures. Below is breakdown of the different funding leverage used for the pilot project in the first six months.



Following up the project

In the pilot project during the first six months of CO2i, out of the 1,863 recipients who benefited from the scheme, 47% were aged 60 years and over, 6% were disabled and 19% in receipt of means tested benefits. The initiative therefore demonstrably reduces health inequalities.

Over the next 2 years, an additional £10million will be made available through HEES for households across Wales where the occupants are aged over 60 years and on qualifying benefits or allowances. Those aged over 80 years are also due to be deemed eligible for the scheme regardless of income. Resource from this initiative targeted at those groups will assist further in driving down health inequalities.

In Powys, where the pilot project was undertaken a group has been established called TEEUP (Targeting Energy Efficiency Uptake in Powys). This group is a partnership between EAGA, CO2i, Mid & South West Wales Energy Efficiency Advice Centre and

Powys County Council Social Services. It will initially produce a map of HEES and CO2i grant uptake to date in order to identify geographical areas of poor uptake. The group will also write to vulnerable households who are in receipt of social services to encourage them to take advantage of energy efficiency grants. In this way there will be targeted efforts to reach those in most need and to reduce health inequalities. It is suggested that those taking up this project, which has been shown to be successful may wish to consider this as a first step, to get maximum benefit from the running of the scheme.

Appendix 1



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24/04/06

For Immediate Release

Assistance for household energy efficiency

Powys residents can apply for financial help to make their homes more energy efficient under a scheme introduced by the County Council.

Assistance of up to £500 for qualifying households will be available for measures such as loft and cavity wall insulation, draught proofing, and energy efficient heating boilers. Up to £600 can also be granted for solar hot water systems..

The Carbon Dioxide Initiative CO2i, pronounced 'Cosy', has been introduced by the Council in partnership with specialist contractors and an energy supplier. The assistance being offered can be used in addition to those already being offered by the energy company, meaning in most cases the cost of insulation work will be free and residents could make substantial savings on their fuel bills.

Assistance is open to both homeowners and people living in private rented accommodation (subject to the written consent of the landlord). Applicants must be 18 years of age or over.

For further information, please telephone the Energy Efficiency Advice Centre free on **0800 512 012**.

ENDS

Appendix 2

LOFT INSULATION 0-250mm (250mm)	Energy Supplier			CO2i Installed	LA Grant		
	Gas	Elec/Coal	Oil/LPG	Price	Gas	Elec/Coal	Oil/LPG
Flat 1 Bed	£121.24	£300.00	£136.47	£317	£196	£17	£181
Flat 2 Bed	£147.49	£326.25	£198.18	£338	£191	£12	£140
Flat 3 Bed	£173.74	£352.50	£289.17	£359	£185	£7	£70
2 Bed mid-terrace house/maisonette	£76.00	£183.40	£99.46	£328	£252	£145	£229
3 Bed mid-terrace house/maisonette	£121.24	£229.98	£124.73	£328	£207	£98	£203
2 Bed End-terrace	£83.56	£191.08	£101.83	£328	£244	£137	£226
3 Bed End-terrace	£121.24	£239.62	£127.70	£328	£207	£88	£200
2 Bed semi Bungalow	£121.24	£300.00	£187.50	£364	£243	£64	£177
3 Bed semi Bungalow	£147.49	£326.25	£213.75	£347	£200	£21	£133
2 Bed detached Bungalow	£173.74	£352.50	£208.08	£406	£232	£54	£198
3 Bed detached Bungalow	£199.99	£378.75	£235.65	£433	£233	£54	£197
4 Bed detached Bungalow	£226.24	£405.00	£264.54	£486	£260	£81	£221
2 Bed Semi-detached House	£83.56	£273.75	£119.30	£328	£244	£54	£209
3 Bed Semi-detached House	£121.24	£300.00	£137.90	£328	£207	£28	£190
4 Bed Semi-detached House	£147.49	£326.25	£158.03	£397	£250	£71	£239
2 Bed detached House	£121.24	£300.00	£136.55	£374	£253	£74	£237
3 Bed detached House	£147.49	£326.25	£157.79	£374	£227	£48	£216
4 Bed detached House	£173.74	£352.50	£182.07	£428	£254	£76	£246

LOFT INSULATION 50-250mm (200mm)	Energy Supplier			CO2i	LA Grant		
	Gas	Elec/Coal	Oil/LPG	Price	Gas	Elec/Coal	Oil/LPG
Flat 1 Bed	£22.06	£22.06	£22.06	£262	£240	£240	£240
Flat 2 Bed	£32.03	£32.03	£32.03	£280	£248	£248	£248
Flat 3 Bed	£46.74	£46.74	£46.74	£301	£254	£254	£254
2 Bed mid-terrace house/maisonette	£16.00	£16.00	£16.00	£267	£251	£251	£251
3 Bed mid-terrace house/maisonette	£20.07	£20.07	£20.07	£283	£263	£263	£263
2 Bed End-terrace	£20.91	£20.91	£20.91	£275	£254	£254	£254
3 Bed End-terrace	£24.17	£24.17	£24.17	£291	£267	£267	£267
2 Bed semi Bungalow	£35.41	£35.41	£35.41	£301	£266	£266	£266
3 Bed semi Bungalow	£41.25	£41.25	£41.25	£318	£277	£277	£277
2 Bed detached Bungalow	£37.21	£37.21	£37.21	£349	£312	£312	£312
3 Bed detached Bungalow	£43.32	£43.32	£43.32	£370	£327	£327	£327
4 Bed detached Bungalow	£49.99	£49.99	£49.99	£404	£354	£354	£354
2 Bed Semi-detached House	£20.91	£20.91	£20.91	£275	£254	£254	£254
3 Bed Semi-detached House	£24.17	£24.17	£24.17	£291	£267	£267	£267

4 Bed Semi-detached House	£27.70	£27.70	£27.70	£341	£313	£313	£313
2 Bed detached House	£25.71	£25.71	£25.71	£309	£283	£283	£283
3 Bed detached House	£29.72	£29.72	£29.72	£328	£298	£298	£298
4 Bed detached House	£34.28	£34.28	£34.28	£367	£333	£333	£333

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CAVITY WALL INSULATION	Energy Supplier			CO2i	LA Grant		
	Gas	Elec/Coal	Oil/LPG	Price	Gas	Elec/Coal	Oil/LPG
Flat 1 Bed	£31.79	£63.81	£36.75	£252	£220	£188	£215
Flat 2 Bed	£38.31	£76.91	£48.50	£261	£223	£184	£213
Flat 3 Bed	£27.25	£92.89	£64.77	£283	£256	£190	£218
2 Bed mid-terrace house/maisonette	£27.25	£103.64	£60.21	£288	£261	£184	£228
3 Bed mid-terrace house/maisonette	£53.50	£116.05	£71.36	£306	£253	£190	£235
2 Bed End-terrace	£87.40	£248.75	£105.77	£370	£283	£121	£264
3 Bed End-terrace	£120.00	£275.00	£125.19	£392	£272	£117	£267
2 Bed semi Bungalow	£53.50	£153.05	£84.69	£312	£259	£159	£227
3 Bed semi Bungalow	£79.75	£165.22	£95.04	£312	£232	£147	£217
2 Bed detached Bungalow	£82.58	£187.35	£103.03	£385	£302	£198	£282
3 Bed detached Bungalow	£89.10	£202.15	£115.49	£415	£326	£213	£300
4 Bed detached Bungalow	£95.72	£217.14	£128.37	£461	£365	£244	£333
2 Bed Semi-detached House	£87.40	£248.75	£105.77	£364	£277	£115	£258
3 Bed Semi-detached House	£120.00	£275.00	£125.19	£392	£272	£117	£267
4 Bed Semi-detached House	£134.19	£301.25	£145.08	£427	£293	£126	£282
2 Bed detached House	£156.25	£353.75	£186.19	£525	£369	£171	£339
3 Bed detached House	£167.96	£380.00	£207.22	£525	£357	£145	£318
4 Bed detached House	£180.42	£406.25	£230.63	£582	£402	£176	£351

HOT WATER TANK JACKET	Energy Supplier			CO2i	LA Grant		
	Gas	Elec/Coal	Oil/LPG	Price	Gas	Elec/Coal	Oil/LPG
Jacket	£0	£0	£0	£15	£15	£15	£15

Draughtproofing	Price
Doors (each) (external only) & Loft Hatch	£16
Windows:	
Up to 15 units (each)	£7.90
16 to 30 (each)	£5.60
31 and above (each)	£5.50

Radiator Reflective Panels
£16.25 per Radiator

BOILERS

Existing boiler must be SEDBUK Rated 'D' or less (or broken/defective) to be replaced by an 'A' Rated one.
See website <http://www.sedbuk.com/> for boiler listings (contractor will provide evidence with application)

LOFT INSULATION 25-250mm (225mm)	Energy Supplier			CO2i Installed Price	LA Grant		
	Gas	Elec/Coal	Oil/LPG		Gas	Elec/Coal	Oil/LPG
Flat 1 Bed	£22.06	£22.06	£22.06	£310	£288	£288	£288
Flat 2 Bed	£32.03	£32.03	£32.03	£338	£306	£306	£306
Flat 3 Bed	£46.74	£46.74	£46.74	£259	£212	£212	£212
2 Bed mid-terrace house/maisonette	£16.00	£16.00	£16.00	£313	£297	£297	£297
3 Bed mid-terrace house/maisonette	£20.07	£20.07	£20.07	£328	£308	£308	£308
2 Bed End-terrace	£20.91	£20.91	£20.91	£312	£291	£291	£291
3 Bed End-terrace	£24.17	£24.17	£24.17	£331	£307	£307	£307
2 Bed semi Bungalow	£35.41	£35.41	£35.41	£364	£329	£329	£329
3 Bed semi Bungalow	£41.25	£41.25	£41.25	£374	£333	£333	£333
2 Bed detached Bungalow	£37.21	£37.21	£37.21	£406	£369	£369	£369
3 Bed detached Bungalow	£43.32	£43.32	£43.32	£436	£393	£393	£393
4 Bed detached Bungalow	£49.99	£49.99	£49.99	£486	£436	£436	£436
2 Bed Semi-detached House	£20.91	£20.91	£20.91	£312	£291	£291	£291
3 Bed Semi-detached House	£24.17	£24.17	£24.17	£331	£307	£307	£307
4 Bed Semi-detached House	£27.70	£27.70	£27.70	£397	£369	£369	£369
2 Bed detached House	£25.71	£25.71	£25.71	£361	£335	£335	£335
3 Bed detached House	£29.72	£29.72	£29.72	£383	£353	£353	£353
4 Bed detached House	£34.28	£34.28	£34.28	£428	£394	£394	£394

LOFT INSULATION 100-250mm (150mm)	Energy Supplier			CO2i Price	LA Grant		
	Gas	Elec/Coal	Oil/LPG		Gas	Elec/Coal	Oil/LPG
Flat 1 Bed	£0.00	£0.00	£0.00	£260	£260	£260	£260
Flat 2 Bed	£0.00	£0.00	£0.00	£260	£260	£260	£260
Flat 3 Bed	£0.00	£0.00	£0.00	£260	£260	£260	£260
2 Bed mid-terrace house/maisonette	£0.00	£0.00	£0.00	£237	£237	£237	£237
3 Bed mid-terrace house/maisonette	£0.00	£0.00	£0.00	£252	£252	£252	£252
2 Bed End-terrace	£0.00	£0.00	£0.00	£250	£250	£250	£250
3 Bed End-terrace	£0.00	£0.00	£0.00	£264	£264	£264	£264
2 Bed semi Bungalow	£0.00	£0.00	£0.00	£289	£289	£289	£289
3 Bed semi Bungalow	£0.00	£0.00	£0.00	£307	£307	£307	£307
2 Bed detached Bungalow	£0.00	£0.00	£0.00	£252	£252	£252	£252
3 Bed detached Bungalow	£0.00	£0.00	£0.00	£267	£267	£267	£267
4 Bed detached Bungalow	£0.00	£0.00	£0.00	£412	£412	£412	£412
2 Bed Semi-detached House	£0.00	£0.00	£0.00	£250	£250	£250	£250
3 Bed Semi-detached House	£0.00	£0.00	£0.00	£264	£264	£264	£264
4 Bed Semi-detached House	£0.00	£0.00	£0.00	£300	£300	£300	£300

2 Bed detached House	£0.00	£0.00	£0.00	£307	£307	£307	£307
3 Bed detached House	£0.00	£0.00	£0.00	£326	£326	£326	£326
4 Bed detached House	£0.00	£0.00	£0.00	£364	£364	£364	£364

CWI POST ' 1976

CAVITY WALL INSULATION	Energy Supplier			CO2i Price	LA Grant		
	Gas	Elec/Coal	Oil/LPG		Gas	Elec/Coal	Oil/LPG
Flat 1 Bed	£19.74	£39.33	£22.79	£252	£232	£213	£229
Flat 2 Bed	£23.79	£47.40	£29.99	£261	£237	£214	£231
Flat 3 Bed	£28.75	£57.26	£39.99	£283	£254	£226	£243
2 Bed mid-terrace house/maisonette	£31.84	£63.18	£37.49	£288	£256	£225	£251
3 Bed mid-terrace house/maisonette	£35.68	£70.74	£44.25	£306	£270	£235	£262
2 Bed End-terrace	£16.24	£116.06	£53.91	£370	£354	£254	£316
3 Bed End-terrace	£42.49	£129.96	£70.95	£392	£350	£262	£321
2 Bed semi Bungalow	£39.42	£94.99	£50.93	£312	£273	£217	£261
3 Bed semi Bungalow	£42.55	£121.24	£57.19	£312	£269	£191	£255
2 Bed detached Bungalow	£49.07	£113.24	£52.30	£385	£336	£272	£333
3 Bed detached Bungalow	£52.94	£122.19	£70.52	£415	£362	£293	£344
4 Bed detached Bungalow	£56.87	£131.25	£83.83	£461	£404	£330	£377
2 Bed Semi-detached House	£16.24	£126.74	£42.49	£364	£348	£237	£322
3 Bed Semi-detached House	£42.49	£136.12	£68.74	£392	£350	£256	£323
4 Bed Semi-detached House	£68.74	£145.73	£94.99	£427	£358	£281	£332
2 Bed detached House	£68.74	£199.99	£94.99	£525	£456	£325	£430
3 Bed detached House	£94.99	£226.24	£121.24	£525	£430	£299	£404
4 Bed detached House	£121.24	£252.49	£147.49	£582	£461	£330	£435

NOTES	Price
<i>LI incs all pipe insulation 2 tanks & Dp 1 Loft Hatch</i>	
Additional Water Tank	£11
Additional Loft Hatch	£99
Loft or Cavity < 25 m2 fixed charge £100 plus m2	£3.85
Bungalow loft over 100m2 - any thickness per m2	£3.85
House Loft over 70m2 - per m2	£3.85
Any property cavity walls over 138m2 – per m2	£3.85
Loft Clearance (max 20 mins) vulnerable households only	£25.00
Additional Cavity Wall Vent	£36.75
Thermostatic Radiator Valves	£38.85
Room Stat	£105.00
Programmable Room Stat	£250.00
Programmer	£250.00

Not CO2i
Eligible
Not CO2i
Eligible
Not CO2i
Eligible
Not CO2i
Eligible

Appendix 3

Prop Type:
No Beds:

Application for

Year Built:
Fuel:

MINOR WORKS ASSISTANCE

Powys County Council - Carbon Dioxide Initiative(CO₂i) 2006 – 07

Mrs K. Powell
Brecknockshire Office
Neuadd Brycheiniog
Cambrian Way
Brecon
Powys
LD3 7HR
Tel: 01874 612253

Mrs Sue Pollard
Welshpool Office
Neuadd Maldwyn
Severn Road
Welshpool
Powys
SY21 7AS
Tel: 01938 551265

Mrs Barbara Slimming
Radnorshire Office, (inc
Builth Wells)
The Gwalia
Ithon Road
Llandrindod Wells
Powys
LD1 6AA
Tel: 01597 827255

Please give **ALL** the following details and tick the boxes as appropriate throughout this form

1. Applicant's Name:
Mr/Mrs/Miss/Ms (delete as appropriate)
Address:.....
.....
Telephone number:.....
2. Applicant's DOB/Current age:...../.....
3. Are you disabled Yes No
4. Do you live in the property as your only or main residence? Yes No
5. (a) Do you have an owner's interest in the property? Yes No
(b) Are you a Private Sector tenant? Yes No
(If yes, you will need to accompany this application with a letter of consent from your Landlord)
6. If you are a tenant, are you a tenant of any of the following: -
a local authority; a new town corporation; an urban development corporation; a housing action trust; the Welsh Development Agency; a health authority, health community board or NHS trust or successor authority ; a police authority established under section 3 of the Police Act 1964; a joint authority established by Part IV of the Local Government Act 1985; a residuary body established under Part VII of that Act; or an authority established under section 10(1) of that Act (waste disposal)?
Yes No
7. Describe the proposed works or scheme (*attach a separate sheet if necessary*):
.....
8. Do you have a duty or power to carry out the proposed works? Yes No
9. Who will carry out proposed works?
Name:.....
Address:.....

10. Are you or your partner in receipt of any of the following?

OTHER:

	You		Your Partner	
income support?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
income based jobseekers allowance?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
working tax credit?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
disability working Allowance	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
housing benefit?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
council tax benefit?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>

DECLARATION (to be signed by the applicant)

WARNING: if you knowingly make a false statement you may be liable to prosecution

I declare that to the best of my knowledge the details I have provided is correct

Date:..... (Signed):.....

Appendix 4

Pennaeth Gwarchod y Cyhoedd /
Head of Public Protection
Chris Taylor

Gwarchod y Cyhoedd / Public
Protection
XXXXXXXXXXXXXX
XXXXXXXXXXXXXX
XXXXXXXXXXXXXX



XXXXXXXXXXXXXX
XXXXXXXXXXXXXX
XXXXXXXXXXXXXX
XXXXXXXXXXXXXX
XXXXXXXXXXXXXX

Ffôn / Tel : XXXXXXXX
Ffacs / Fax : XXXXXXXX
E-bost / E-mail : @powys.gov.uk
Eich cyf / Your ref :
Ein cyf / Our ref : WK/
Dyddiad / Date : 02 March 2007

Os yn galw gofynnwch am/If calling please ask for:
XXXXXXXXXXXXXXXXXXXXXXXXXXXX

POWYS HOUSING RENEWAL STRATEGY
APPROVAL OF CO2i APPLICATION 06 - 07

Re: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

I am pleased to inform you that your application for financial assistance to carry out the works as described in your application has been approved and the work may now proceed.

Subject to the work being completed to the satisfaction of the Council, and complying in all respects to the requirements of the renewal strategy, assistance will be paid as follows:

- | | | |
|----|-----------------------------------|----------------|
| a. | Submitted Estimate | £XXXXXX |
| b. | Total value of Assistance: | £XXXXXX |
| c. | Energy Supplier Assistance | £XXXXXX |
| d. | Your contribution | £XXXXXX |

Please check your contractor's estimate for confirmation of these figures, which will include any deposit paid.

Your contractor, Domestic & General Insulation Ltd, has been informed and will contact you to arrange a convenient date to install the works. You can contact them any time on their customer number, Monday to Friday, 9am to 5pm on: **0800 0132 910**.

The Council reserves the right to inspect the assisted works. The Council does not carry out detailed supervision of the work, and the Council will not be liable for poor workmanship carried out by contractors, which you employ.

The items detailed may require Building Regulations, planning approval or Listed Building Consent. It is your responsibility to obtain such approvals before proceeding with the work.

You will be required to complete a claim-form for this financial assistance. The installer carries these with them and will ask you to complete this form upon completion of works. Do this **only** when you are satisfied with the works.

The payment of this financial assistance will be made if the claim-form is received within **three** months from the date of this approval.

Signed:..... (Authorised Officer)

Powys Housing Renewal Strategy
Claim Form for Minor Works Assistance
(Carbon Dioxide Initiative – CO2i) 2006 - 07

THROUGHOUT THE FORM PLEASE WRITE IN BLOCK LETTERS OR TICK THE BOXES THAT APPLY.

1. Applicant's Name:
2. Address:
Postcode:

3. If you wish to authorise the Council to pay grant to someone other than yourself, please do so by giving their name and address below:
Name:
Address: Postcode:

4. Does the final cost of the works (including materials) differ from the estimated cost?
(tick which box applies) Yes No
If you have answered "YES" then please explain why:

5. Are you satisfied that the work?
(tick which box applies) Yes No
If you have answered "NO" then please explain why:

6. On what date was the work complete?

Declarations:

- (a) I hereby certify that the work carried out to the property has been undertaken to my entire satisfaction, completed in an acceptable and workmanlike manner and fully in accordance with the specification provided by the installer;
(b) the information above is correct; and
(c) the invoice for the works is correct and attached herewith

Signature: Date:

PLEASE RETURN THIS FORM TO YOUR RELAVANT AREA OFFICE:

Appendix 6

**Pennaeth Gwarchod y
Cyhoedd /**
Head of Public Protection
Chris Taylor

Gwarchod Y Cyhoedd / *Public Protection*
Y Gwalia/The Gwalia
Llandrindod Wells
Powys
LD1 6AA



To the Householder

Ffôn / Tel: 01597 827139
Ffacs / Fax: 01597 827275
E-bost / E-mail: stuarda@powys.gov.uk
Eich cyf / Your ref:
Ein cyf / Our ref:
Dyddiad / Date: 2 March 2007

Os yn galw gofynnwch am:
If calling please ask for: Stuart Davies

Dear Householder,

Re: CO2i 2005-06 – (Carbon Dioxide Initiative)

Thank you for your enquiry for the Council's Carbon Dioxide Initiative.

Enclosed you will find an application form and a list of local Solar Installers / heating installers who can give you advice on the different systems available to suit your needs and provide a competitive quotation.

We have vetted these contractors (so far as reasonably practical) to ensure they will provide the best possible service to you. However, you are not bound to use any of these companies as YOU will be employing their services and the Council will not be liable for poor workmanship carried out by contactors whom you employ.

We therefore would suggest you obtain at least two different estimates, from suitably qualified contractors, to ensure you are getting good value for your money.

Your next step is to complete the application form and attach a copy of the quotation from your chosen contractor and return them to your appropriate Council Office for processing, the address of which can be found at the top of the application form. Note: This application form remains valid for 6 weeks – from the date on top right corner of the application form – after which it becomes void.

If the application is deemed acceptable you will then receive the Council's approval stating how much assistance has been awarded.

The installation of a solar panel / replacement boiler may require Building Regulation, Planning Approval or Listed Building Consent. It will be your responsibility to obtain such approvals before proceeding with the work. For your nearest Planning Office please telephone 01597 826000.

This scheme for solar is designed to supplement the DTI Low Carbon Building Programme grant (see <http://www.lowcarbonbuildings.org.uk/home/>) for professionally installed systems and is NOT available for any other type of installation including DIY.

Yours sincerely,

Stuart Davies
Home Energy Conservation Officer