CONTEXT STATEMENT

In respect of

ECO EXTERNAL WALL INSULATION PROGRAMME

On behalf of

E.ON ENERGY SOLUTIONS

Ref: RCA082

Date: June 2013

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REGENERATION

CONTENTS **PAGE(S)**

1.0 INTRODUCTION 3
2.0 THE PROPOSALS 6
3.0 PRE-APPLICATION CONSULTATION AND ONGOING PUBLIC CONSULTATION 8

APPENDICES

1. Performance Information for External Wall Insulation

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1.0 INTRODUCTION

1.1 RCA Regeneration Ltd have been appointed by E.ON Energy Solutions to support them as they implement the External Wall Insulation Programme in connection with the Energy Company Obligation (ECO) Programme.

1.2 This statement provides the contextual information required to assist in the decision-making process and provides officers, Members and the public with additional background information as to why this programme is underway and what its objectives are.

What is the ECO Programme?

1.3 The ECO Programme replaces the previous Community Energy Saving Programme (CESP) which ran from 1st October 2009 and ended on 31st December 2012. CESP provided information on what retrofit measures worked best when applied on a large scale. ECO as a much larger programme was introduced in January 2013 to reduce the UK's energy consumption and to support people living in fuel poverty. To achieve this, the programme funds energy efficiency improvements worth around £1.3 billion each year.

1.4 The Electricity and Gas (Energy Companies Obligation) order 2012 came into force on 4th December 2012 and is now in effect and will run until March 2015. The Order runs alongside the Green Deal project to give consumers support and funding towards energy efficiency improvements to their homes.

1.5 The ECO and Green Deal Programmes together aim to reduce carbon emissions from the UK's existing domestic building stock. These programmes are an essential part of the UK's plan to meet its statutory domestic carbon emission reduction targets by 2050.

1.6 The ECO Programme has three obligations associated with it which are detailed below:

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- **Carbon Saving Community Obligation** – This provides insulation measures to households in specified areas of low income. It also makes sure that 15% of each supplier's obligation is used to upgrade to more hard-to-reach low-income households in rural areas.
- **Affordable Warmth Obligation** – This provides heating and insulation measures to consumers living in private tenure properties that receive particular means-tested benefits. This obligation supports low-income consumers that are vulnerable to the impact of living in cold homes, including the elderly, disabled peoples and families with young children.
- **Carbon Saving Obligation** – This covers the installation of measures like solid wall and hard-to-treat cavity wall insulation, which ordinarily can't be financed through the Green Deal Programme.

1.7 ECO will be funded by the energy suppliers. Under the scheme, the energy suppliers will determine how much subsidy they are able to provide to each consumer. This may depend on the consumers' individual circumstances and the amount of Green Deal finance being used (if appropriate).

1.8 The ECO Programme is worth approximately £1.3 billion every year. The ECO Affordable Warmth and Carbon Saving Community obligations will provide support worth around £540 million per year to low-income households. The Carbon Saving Obligation is worth approximately £760 million per year.

1.9 Energy suppliers will provide the ECO obligations directly to customers.

1.10 The Energy Company Regulator, Ofgem, administers the ECO Programme and will monitor and enforce compliance under the obligations. Energy suppliers must report on their delivery against their obligation to make sure they are on track to meet their target by the end of the Programme in 2015.

1.11 Under the ECO Order, energy suppliers must also report on their costs of delivery, to help achieve greater transparency around any costs which are passed onto the consumer.

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1.12 Further technical details showing the impact of External Wall Insulation is shown in Appendix 1 of this document.

1.13 Further technical information including detailed drawings/photomontages showing the proposed effect of the insulation on a 'typical' property contained within the application, will be provided separately as part of the planning application package.

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2.0 THE PROPOSALS

2.1 The proposals are for the installation of external wall insulation to solid wall properties.

2.2 The EWI product may be manufactured by Wetherby and/or Weber Saint Gobain. Further information on these products will be supplied separately as part of the application package, as appropriate.

2.3 However, the finish will be one of either polymer dash or a smooth render, in a 'barley corn' cream. Samples of this can be supplied in due course.

2.4 Where properties have had the benefit of extensions, those which are of substantial construction will be covered with the application of External Wall Insulation, however those which are of a temporary or non-substantial construction will not be covered.

2.5 External Wall Insulation has been chosen for the area along with a range of other measures, such as loft insulation, new windows and doors, new boilers, voltage optimisation and low energy lighting (which do not require planning permission) because it represents the best return in terms of carbon reduction in proportion to its cost.

2.6 In the Heath and Energy Saving Strategy, the government set out a long-term vision of the continuous delivery of carbon savings from the domestic sector using some form of obligations until at least 2020. Energy efficiency is one of the most cost effective ways of achieving desired reductions in carbon emissions. Reducing energy consumption can also improve productivity and contribute to improved security of supply.

2.7 The delivery of External Wall Insulation will usually mean targeting the older housing stock within an area due to them being of solid wall construction with no cavity.

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2.8 Such solid wall properties are often occupied by those that can ill-afford to pay the inevitably high heating bills associated with them.

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3.0 PRE-APPLICATION CONSULTATION AND ONGOING PUBLIC CONSULTATION

3.1 Each occupier will receive pre-application notification of any potential planning application themselves as well as on-going engagement by E.ON Energy Solutions as questions or concerns arise. A hotline number has been set up as well as (at each location) a Tenant/Community Liaison Officer being assigned by E.ON.

3.2 Further on-going engagement has included visits to the properties by the surveying teams from E.ON. Leaflets and further information provided to owners/occupiers as part of this programme are being distributed.

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Appendix 1: Performance of Solid Wall Insulation

measure	SOLID WALL INSULATION U-value 2.1 to 0.45 W/m2K - internal	Column1	Column2
dwelling type	Annual carbon reduction per measure (kgCO2/a)	Life-time (years)	Lifetime carbon reduction (kgCO2) - unadjusted
1 Flat, 1 bedroom	548	30	16,441
2 Flat, 2 bedroom/s	660	30	19,813
3 Flat, 3 bedroom/s	798	30	23,932
4 Mid-Terrace, 2 bedroom/s	685	30	20,549
5 Mid-Terrace, 3 bedroom/s	767	30	23,010
6 End-Terrace, 2 bedroom/s	1,256	30	37,681
7 End-Terrace, 3 bedroom/s	1,406	30	42,195
8 Semi-bungalow, 2 bedroom/s	957	30	28,716
9 Semi-bungalow, 3 bedroom/s	1,033	30	30,999
10 Det-bungalow, 2 bedroom/s	1,167	30	35,012
11 Det-bungalow, 3 bedroom/s	1,259	30	37,777
12 Det-bungalow, 4 bedroom/s	1,353	30	40,579
13 Semi-house, 2 bedroom/s	1,372	30	41,156
14 Semi-house, 3 bedroom/s	1,475	30	44,247
15 Semi-house, 4 bedroom/s	1,579	30	47,368
16 Det-house, 2 bedroom/s	2,184	30	65,513
17 Det-house, 3 bedroom/s	2,347	30	70,425
18 Det-house, 4 bedroom/s	2,522	30	75,648

SOLID WALL INSULATION U-value 2.1 to 0.35 W/m2K - internal	Column3	Column4
Annual carbon reduction per measure (kgCO2/a)	Life-time (years)	Lifetime carbon reduction (kgCO2) - unadjusted
581	30	17,424
700	30	20,998
845	30	25,364
728	30	21,830
815	30	24,446
1,330	30	39,894
1,489	30	44,674
1,011	30	30,320
1,091	30	32,731
1,233	30	36,991
1,330	30	39,912

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1,429	30	42,872
1,451	30	43,527
1,560	30	46,796
1,670	30	50,097
2,306	30	69,184
2,479	30	74,370
2,663	30	79,886

SOLID WALL INSULATION U-value 2.1 to 0.30 W/m2K - internal	Column5	Column6
Annual carbon reduction per measure (kgCO2/a)	Life-time (years)	Lifetime carbon reduction (kgCO2) - unadjusted
597	30	17,898
719	30	21,570
868	30	26,054
748	30	22,450
838	30	25,139
1,368	30	41,028
1,531	30	45,944
1,037	30	31,121
1,120	30	33,596
1,266	30	37,975
1,366	30	40,974
1,467	30	44,013
1,491	30	44,734
1,603	30	48,093
1,716	30	51,486
2,367	30	71,015
2,545	30	76,339
2,733	30	82,001

SOLID WALL INSULATION U-value 2.1 to 0.20 W/m2K - internal	Column7	Column8
Annual carbon reduction per measure (kgCO2/a)	Life-time (years)	Lifetime carbon reduction (kgCO2) - unadjusted
627	30	18,801

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755	30	22,658
912	30	27,369
787	30	23,624
882	30	26,455
1,445	30	43,343
1,618	30	48,536
1,091	30	32,728
1,178	30	35,330
1,331	30	39,942
1,437	30	43,096
1,543	30	46,293
1,573	30	47,198
1,691	30	50,742
1,811	30	54,322
2,491	30	74,716
2,677	30	80,317
2,876	30	86,275

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