



## Northern Ireland Sustainable Energy Programme Annual Report 2014-15

Prepared by the Energy Saving Trust

### 1. Executive Summary

This annual report reviews the performance of the 2014-15 Northern Ireland Sustainable Energy Programme (NISEP) schemes, outlining the measures installed, financial benefits to recipients and the energy (GWh) and carbon savings associated.

For 2014-15 the initial NISEP fund was £7,941,946 (as set out in the NISEP Framework) giving an average NISEP customer contribution of £9.37 per electricity customer across approximately 847,885 domestic and business customers. The total NISEP spend at the end of the year was £7,092,877. With additional underspend from previous years allocated to 2014/15, there remained a significant underspend of over £1.6million.

In total, thirty two schemes were approved, however three of these did not progress. During the year, funds allocated to undersubscribed schemes were redistributed to other more successful schemes to try to maximise in-year spend and associated energy savings.

#### Table 1 - Summary Outturn Savings

Total lifetime energy savings (GWh)	784.090
Total lifetime carbon saved (tC)	130,787
Gross lifetime customer benefits (£)	98,898,671
Total incentives earned (£)	399,409

### 2. NISEP background

NISEP is funded from a sum of money collected from all electricity customers through a Public Service Obligation (PSO), and it is used to provide funding for energy efficiency schemes.

The strategic objectives of the NISEP are to contribute to the achievement of:

- Efficiency in the use of energy;
- Socially and environmentally sustainable long-term energy supplies; and
- The above at best value to customers whilst also having due regard to vulnerable customers.

The majority of the funding (80%) is ring-fenced for spend on vulnerable customers in Northern Ireland. Previous consultations have substantiated the view that this level of funding for vulnerable customers should remain.

In 2014-15 the NISEP continued to focus on vulnerable customers (known internally as the Priority Sector) who are domestic customers on lower incomes who may be vulnerable to fuel poverty, with £6,265,557 made available at the start of the year for this sector. The remaining £1,566,389 was split between non-priority domestic and commercial schemes and the non-priority innovative schemes category. Any additional funding from 2013/14 underspend was also made available for Primary Bidders to utilise.

NISEP funding for schemes aimed at Priority Sector customers typically provided a package of measures that included;

- Fabric (cavity wall or loft) insulation
- Heating system replacement including fuel switching and heating controls
- Low energy lighting
- Hot water cylinder jackets
- Radiator Panels
- Energy monitors
- Shower Flow Regulators

The explicit aim of NISEP funding in the Priority Sector is to reduce energy consumption in the least energy efficient housing stock.

In the non-priority domestic and commercial category measures included;

- Insulation 'cash-back' offers for cavity wall, and loft insulation in the domestic sector
- Variable speed drives and variable speed compressors
- Energy Efficient and LED lighting systems
- Heating Controls
- Heat exchangers for compressed air systems

### **3. Types of schemes in 2014-15**

In 2014-15, thirty two schemes were approved, of these three did not progress and a further three had no uptake of measures. The lessons learnt from these unsuccessful schemes will be taken into consideration when assessing future bids for NISEP funding. The tables below summarise the number of schemes per bidder and schemes per category

**Table 3.1 - Summary of approved schemes by Primary Bidder**

Airtricity	4
Energia	11
Energystore	2
firmus energy	3
Leaf IP	1

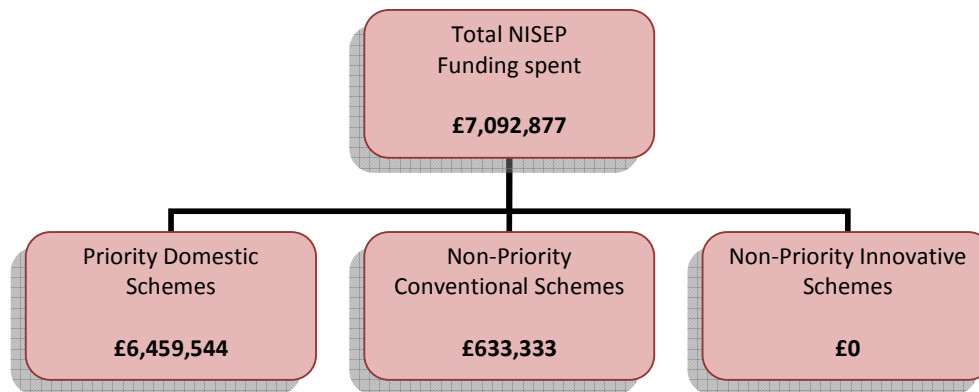
Power NI	10
Warmfill	1

**Table 3.2 – Breakdown of schemes by category**

Priority Schemes	16
Non-priority conventional	16
Non-priority innovative	0

Table 3.3 below shows how the NISEP funds spent were split between each funding category in 2014-15.

**Table 3.3 - NISEP Breakdown of Funding Spent**



#### 4. Priority Domestic Schemes

Of the £7,092,877 spent, £6,459,544 was utilised on Priority Domestic schemes (those targeted at vulnerable/lower income), representing 91% of the total funding spent. This figure is significantly more than the 80% ring fenced for priority schemes due to low uptake of non-priority schemes and reallocation of funding in the latter part of the NISEP year to successful priority schemes. However, there was an underspend of over £820,000 with Primary Bidders unable to secure activity within the timeframe. The Programme Administrator, assisted by the interim reports summarising committed funds to date, will continue to monitor scheme progress in the coming year. Primary Bidders were reminded throughout the year to notify the Programme Administrator of underspend so that it could implement processes to move funds to other, better performing schemes as early as possible. Energy savings of 405.160GWh in the priority sector represents about 52 per cent of the overall energy savings. This equates to a lifetime customer benefit of £42,932,413 for the most vulnerable households in Northern Ireland.

In total, priority funding contributed to 127,755 energy efficiency interventions. This is considerably more than previous years with the inclusion of 91,906 shower flow regulators. Other measures included energy monitors and new high-efficiency gas condensing boilers. Four of the sixteen priority schemes provided a fully funded ‘whole house solution’ package whilst five provided a partial grant towards similar measures. The remaining seven schemes fully funded individual measures ranging from shower flow regulators to cavity wall and loft insulation. Table 4.1 shows a breakdown of priority measures and Table 4.2 shows the

breakdown of heating system installations. It is noted that it appears to be increasingly hard to identify homes that either need, or are taking-up the offer of a full package of ‘whole house solution’ measures. This may be due to it being increasingly difficult to identify properties which require a full suite of measures or that people do not desire the full package (for example they may not wish to clear their loft to permit loft insulation to be fitted). This will need to be reviewed for future years of the scheme to ensure that submissions reflect this trend.

**Table 4.1 – Summary of Priority Measures Installed**

Loft insulation	3,457
Cavity wall insulation	1,960
Low energy lighting	23,708
Hot water cylinder jackets	1,346
Radiator Panels	1,000
Energy Monitors	1,614
Heating Replacements	1,764
Shower Flow Regulators	92,906
<b>TOTAL</b>	<b>127,755</b>

**Table 4.2 – Summary of Heating Replacements**

Economy 7 to gas	409
Economy 7 to oil	13
Solid fuel to gas	343
Solid fuel to oil	13
LPG to gas	14
Oil to gas	358
No heating to gas	274
No heating to oil	77
Back Boiler Unit to Gas	3
E7 to Quantum	260
<b>TOTAL</b>	<b>1,764</b>

Feedback from priority scheme recipients is always encouraged and below is a snapshot of the kind of comments we receive.

Energy Saver Homes Customers

*“Don't know how I would have got through the winter without heating. A big thank you.”*

*“Great scheme, the service from start to complete installation was excellent. I would happily recommend.”*

Home Energy Saver Customers

*“Warmer and don't have to put heating on to have hot water anymore”. “Yes very happy with it all.”*

Home Comfort £1,800 Cashback Customers

*“Thank you very much on behalf of our entire family for the wonderful service, for great people and warmth of our home”. “Overall extremely happy with our new heating and*

*energy savings, have recommended it to family and friends". "We are really pleased with our gas heating and are finding it much more economical"*

Thermal Comfort Customers

*"I could not afford to have the insulation done in my house. This has made a remarkable difference. Thank you so much". "I noticed from day one the difference in temperature in all of the bedrooms." "I did not think it would make any difference but it has. Job well done by all involved"*

## **5. Non priority schemes (commercial, domestic and innovative)**

Non-priority schemes provide part-funding, usually in the region of 20%, towards the cost of the measures. These schemes tend to be more cost effective than those in the priority sector, due to commercial energy efficiency measures yielding good energy savings in comparison to the spend. However, over recent years, this category has had high levels of underspend for a number of reasons. For the non-priority domestic schemes, typically an insulation "cashback" offer, the historical £150 cashback is perhaps no longer seen to be as attractive or as sufficient with the increase in the average measure cost (particularly with the recent addition of loft ventilation costs). For the non-priority commercial schemes, it continues to prove challenging, firstly to find applicants who are interested in receiving a grant and secondly to find projects that will yield sufficient savings. Primary Bidders then find a significant number of applications not proceeding to installation. With the Programme Administrator identifying underspend during the year and reallocating funds to the Priority category, there still remained a significant underspend of over £860,000. The Programme Administrator will continue to monitor these types of schemes in an effort to ensure resources continue to be managed effectively.

Feedback from a customer who availed from the Keeping You Warmer scheme:

*"Noted a big difference from day one, house much warmer, money off was a good incentive". "£150 grant was welcome but would have liked a higher amount". "Happy with scheme"*

With the non-priority commercial conventional schemes, there was a significant reduction in measures installed in comparison to last year, explaining the underspend in this category. There were over 5,000 less high bay and fluorescent lighting measures installed compared to last year, however there was a slight increase in LEDs. Each year, LEDs continue to be popular as they become a more trusted product and companies are now more likely to try LEDs over other fittings. This year there were no innovative non-priority schemes submitted, therefore the funding for the innovative category was allocated to conventional non-priority schemes.

## **6. Utilisation of NISEP Funding 2014-15**

Table 6.1 below shows a summary of the approved schemes this year along with NISEP contribution spent, GWh lifetime energy savings, lifetime carbon tonnes and the gross customer financial benefit of each scheme. The graphs show a breakdown of GWh savings by category and the overall cost effectiveness of each scheme in pence spent per kilowatt of

energy saving generated (the lower the pence per kilowatt figure, the more cost-effective the scheme).

**Table 6.1 - Scheme Summary**

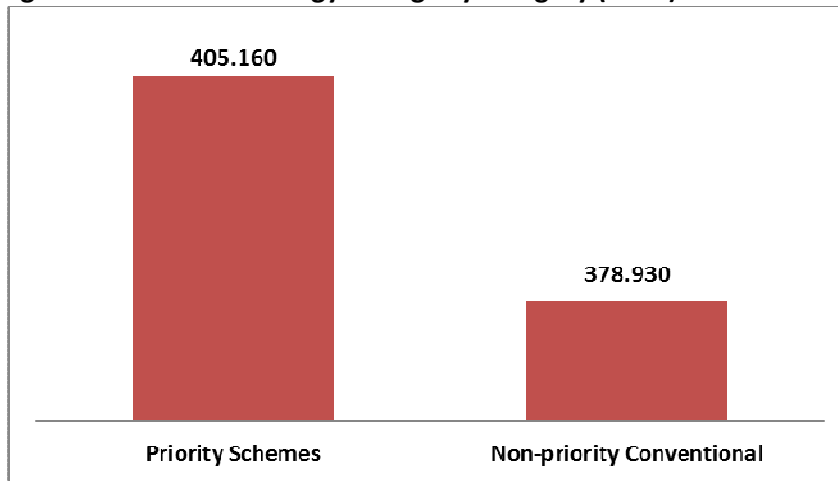
SCHEME REF	SCHEME TITLE	NISEP Funding Spent £	Accredited Lifetime Energy Savings GWh	Lifetime Carbon Saved Tonnes	Gross Customer Lifetime Benefit £
AIRT 14 01 MP	Efficient Electric Heating	197,753	5.51	1,095	486,457
AIRT 14 02 MP	Energy Saver Plus	83,681	5.877	859	619,638
AIRT 14 03 MP	Efficient Electric Heating Plus	151,326	1.447	285	127,725
AIRT 14 04 MP	Home Energy Saver	698,575	19.923	3,134	1,353,608
ENA 14 01 LNP	High Bay/LED Lighting Enhancement	35,632	16.534	3,024	2,567,658
ENA 14 02 LNP	Fluorescent/LED lighting	43,245	23.363	4,221	3,628,270
ENA 14 04 ONP	Variable Speed Drives	30,169	14.402	2,384	2,236,634
ENA 14 05 ONP	Variable Speed Compressors	72,134	45.604	7,548	7,082,292
ENA 14 06 ONP	Heat Recovery/Compressed Air Systems	18,348	20.624	3,414	3,202,837
ENA 14 07 ONP	Boiler Burner Controllers*	600	0	0	0
ENA 14 08 ONP	SME Lighting and Controls	9,333	4.23	757	656,988
ENA 14 09 ONP	Compressed Air Control System*	1,750	0	0	0
ENA 14 10 LNP	Aluminium Compressed Air Piping*	2,400	0	0	0
ESL 14 02 I NP	150 Insulation Grant	215,573	73.781	12,375	8,817,813
ESL 14 03 MP	Thermal Comfort Free Insulation	932,670	61.612	10,130	7,699,116
FIR 14 01 MP	Home Comfort Tenant Oil	374,067	10.859	1,909	665,168
FIR 14 02 MP	Home Comfort £1800 Cashback	596,603	31.153	5,910	982,170
FIR 14 03 MP	Home Comfort Plus - Free Heating	453,836	9.363	1,721	429,483
LEAF 14 01 OP	Water Widget	482,749	94.851	15,390	12,851,440
PNI 14 01 MP	Energy Saver Homes (Solid Fuel & E7)	879,270	19.408	3,056	1,781,293
PNI 14 03 MP	Cosy Homes (Solid Fuel and E7)	284,609	21.594	3,462	878,665
PNI 14 08 IP	Free Insulation (CWI)	526,026	56.683	9,660	6,870,599
PNI 14 09 IP	Free Loft Insulation	643,461	47.313	7,015	5,729,188
PNI 14 10 IP	Energy Saving Packs	67,850	6.702	861	906,970
PNI 14 12 IP	Cosy Homes Insulation	87,066	12.863	1,995	1,550,893
PNI 14 14 ONP	Variable Speed Drives	108,088	131.866	22,529	20,478,862
PNI 14 15 INP	Business Insulation*	548	0.355	56	40,887
PNI 14 16 LNP	Commercial LED Lighting	67,709	41.281	6,817	6,411,014
WFL 14 02 I NP	Keeping You Warmer	27,802	6.889	1,178	843,004
<b>TOTALS**</b>		<b>7,092,877</b>	<b>784.090</b>	<b>130,787</b>	<b>98,898,671</b>

\* remaining funds were returned early due to low uptake

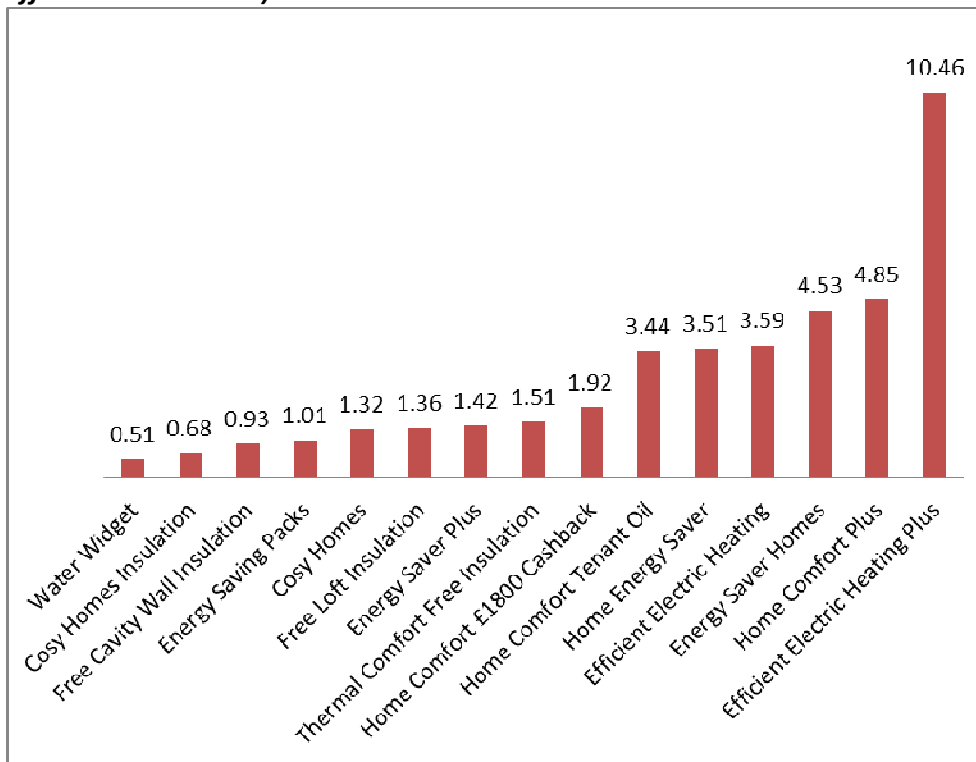
\*\* total figures include 2.d.p & 3.d.p and where relevant have been rounded up

Three schemes allocated funding did not run due to no uptake. These were PNI 14 13 HP Quantum Heating, ENA 14 11 OHP Intelligent Heating Controls and ENA 14 03 ONP Hysave.

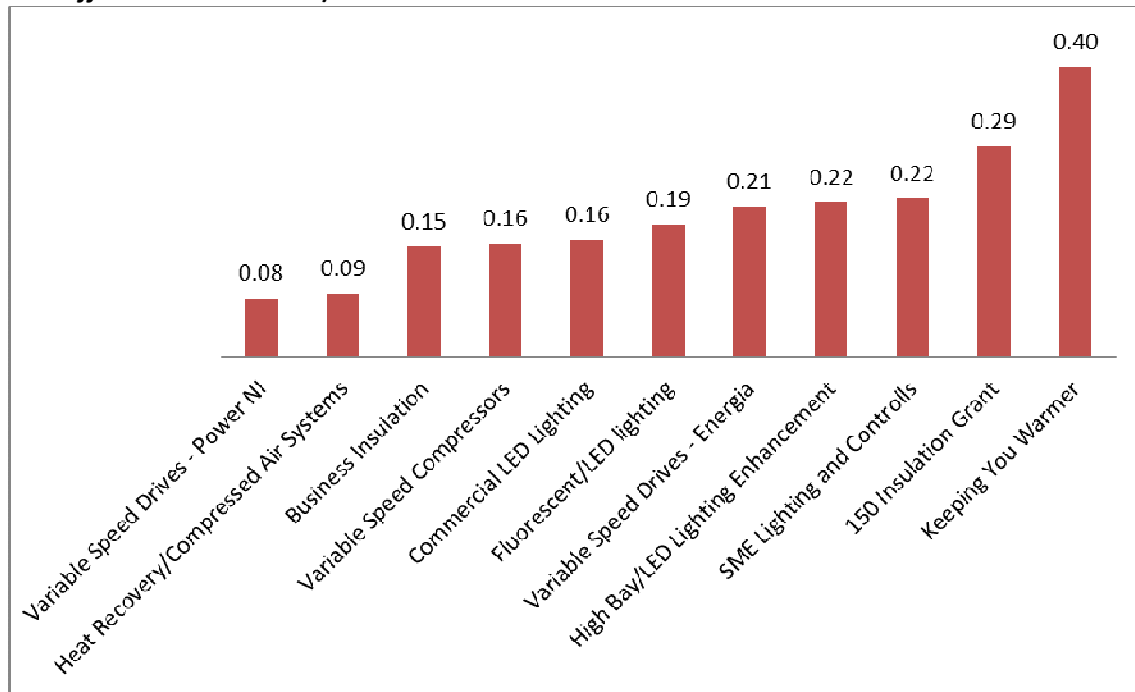
**Figure 6.2 - Lifetime energy savings by category (GWh)**



**Figure 6.3 - Priority Scheme Cost Effectiveness (p/kWh) (the lower the value, the more cost effective the scheme)**



**Figure 6.4 - Non-Priority Scheme Cost Effectiveness (p/kWh) (the lower the value, the more cost effective the scheme)**



## 7. Target Achievement and Incentive Payments

In order to encourage Primary Bidders to bring forward cost-effective schemes and ensure that the objectives of the NISEP are met, the Utility Regulator awards an incentive payment to Primary Bidders that exceed the energy saving target set for each scheme. There is no incentive paid for simply meeting the target.

As a result of exceeding the GWh targets, incentive payments were awarded to each of the Primary Bidders and the total of incentive payments was £399,409. This is summarised in table 7.1 below.

### 7.1 - Summary of Incentive Payments 2014-15

Primary Bidder	Amount spent (£)	Savings achieved (GWh)	Incentive earned (£)
Airtricity	1,131,336	32.757	19,483
Energia	213,612	124.756	33,947
Energystore	1,148,243	135.393	19,888
Firmus Energy	1,424,507	51.376	41,552
LEAF IP	482,749	94.851	114,272
Power NI	2,664,627	338.066	170,267
Warmfill Ltd	27,802	6.889	0
		<b>TOTAL</b>	<b>399,409</b>



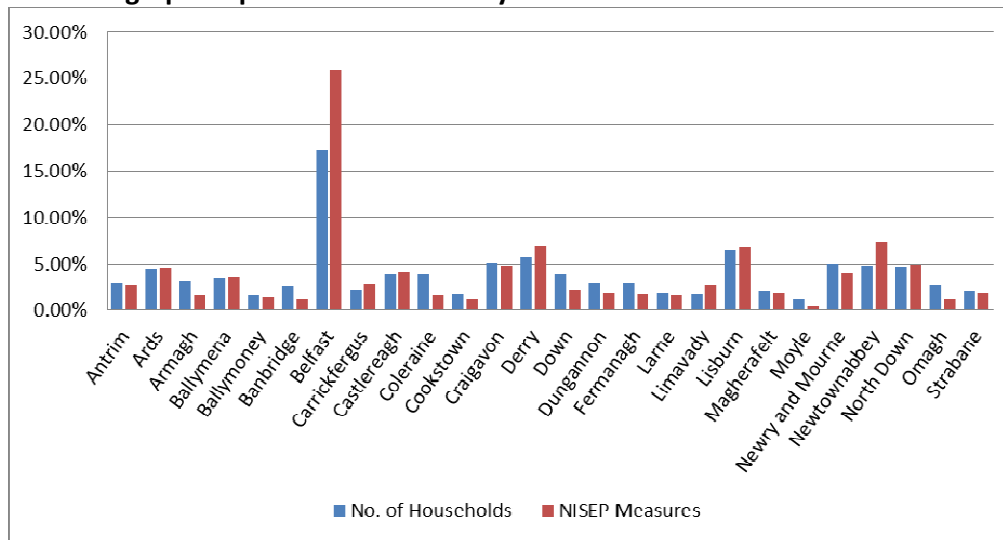
## 8. Geographical Spread of Measures

Data from domestic NISEP schemes is fed into the Energy Saving Trust's Home Energy Efficiency Database (HEED). This database records information from a variety of sources across the UK to create a picture of energy efficiency upgrades for individual properties.

Data from the 14-15 NISEP has been analysed and Table 8.1 below shows the percentage of NISEP interventions per council area in red and the percentage of NI households there are in each council area in blue. For NISEP to demonstrate good geographical spread across all council areas, both the blue and red columns should be roughly equal height as both indicate the data as a % of the national total.

There appears to be a reasonable spread of measures across all council areas. Belfast as opposed to Derry City Council last year, benefited from a higher than average proportion of measures in particular insulation installs. A third of the shower flow regulators were allocated in Belfast. The number of measures in Derry City Council has reduced somewhat from last year but like Newtownabbey, Ballymena, Ards, Castlereagh and Limavady, it still has a higher than average proportion of measures when compared to population size.

### 8.1 – Geographic Spread of Measures by Council Area



## 9. Comparison with previous year

The table below provides a comparison with last year's NISEP.

**Table 9.1 – Comparison with previous year's figures**

	2014-15	2013-14
NISEP funding spent	<b>£7,092,877</b>	<b>£7,931,744</b>
Total lifetime energy savings	<b>784.090 GWh</b>	<b>764.268GWh</b>
Carbon savings	<b>130,787 t</b>	<b>141,116 t</b>
Gross customer benefit	<b>£98,898,671</b>	<b>£103,488,375</b>
Total incentives earned	<b>£399,409</b>	<b>£235,434</b>

Overall, spend was down compared to previous years, however there was a significant increase in energy savings. High numbers of a low cost, high energy saving product namely shower flow regulators, and a higher number of heating system upgrades and cavity insulation measures compared to last year, has increased energy savings. Gross customer benefit is slightly less than last year. The non-priority commercial schemes accounted for over £13 million of the reduction in gross customer benefit (in particular through less high bay measures), the impact of which was lessened by an increase in gross customer benefit under the priority category in individual measures and fully funded WHS package schemes.

## **10. Conclusions**

NISEP attracted a greater interest in 2014/15 with forty-two schemes originally submitted, of which ten did not receive approval. The overall NISEP spend was approximately £800,000 less compared to last year, most notably under the non-priority category. With the reallocation of underspend from the previous year, there remained over £1.6 million unspent by year-end.

There was a significant increase in energy savings most notably under the priority category in individual measures and fully funded WHS package schemes, due in part to the extensive installation of water saving devices. It is noted that it appears to be increasingly hard to identify homes that either need, or are taking-up the offer of a full package of 'whole house solution' measures. The ratio of measures will be analysed in future bids to ensure that this is reflected in the assumptions made in scheme submissions. In total, across all domestic and commercial schemes, there were 144,999 energy efficiency measures installed, including 1,764 new heating systems. Comparing the previous year, when 55,049 measures were installed, the increase is accounted for by the inclusion of 91,906 shower flow regulator devices.

The gross customer benefit total translates as one pound of NISEP funding provided this year, providing £13.94 of NPV lifetime benefits.

There continues to be underspend with the non-priority schemes, which led to the priority category receiving 91% of the total funding spent as opposed to the 80% ring-fenced. However by the end of the year, reallocation of funding from the previous year meant that both priority and non-priority, had a similar underspend of over £800,000 each. A number of factors played a part, Primary Bidders unable to secure activity within the timeframe and the rigidity of commercial scheme criteria, where a number of projects were turned down due to not meeting the cost effectiveness target set by Primary Bidders. The Programme Administrator will continue to review closely those schemes that consistently under-perform and seek to move funds to better performing schemes.

## **Appendix 1: Summary of participating NISEP schemes**

### **PRIORITY SCHEMES**

#### **AIRT 14 01 MP      Efficient Electric Heating**

This was a priority whole house solution scheme that installed energy efficient Quantum electric storage heating in housing association properties. The scheme was aimed at replacing the existing heating systems with the energy efficient Glen Dimplex Quantum system. This heating upgrade offered HA tenants up to 20% increased efficiency compared to their existing electric heating system. This was a new scheme designed due to the confirmed requirement from NI housing associations to offer a viable alternative in energy efficient heating to old inefficient electric storage heating systems, as well as those homes off the current NI gas network that required an energy efficient heating system.

A grant of up to £1,000 was offered for heating and £150 towards insulation. This scheme delivered heating upgrades to 188 social housing properties; however properties targeted did not require insulation.

#### **Measures Summary**

Quantum Heating Upgrade	188
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#### **AIRT 14 02 MP      Energy Saver Plus**

This was a priority whole house solution scheme that targeted vulnerable householders, who met the income criteria, with no heating, Economy 7 or solid fuel heating, and provided a new energy efficient heating system and a package of insulation measures. The households would not be eligible for either Warm Homes or a NISEP fully funded package. Eligible customers were offered a gas energy efficient heating system, if on the gas network, or an oil energy efficient heating system where gas was not available.

A grant of £1,200 was available for heating system upgrade/replacement. Those householders that availed of the NISEP grant would also be able to avail of discounted installation of cavity wall insulation and/or loft insulation up to the value of £800. Each property received four CFLs, and a shower flow regulator to assist with domestic water efficiency.

#### **Measures Summary**

Loft Insulation	18
Cavity Wall Insulation	1
Replacement Heating	70

#### **AIRT 14 03 MP      Efficient Electric Heating PLUS**

This scheme was originally submitted as a partially funded scheme but due to low uptake was amended during the year to a fully funded (with grant cap) priority whole house

solution scheme, aimed at fuel poor households, who met the income criteria set, that had an old inefficient Economy 7 electric storage heating system.

The scheme was aimed at replacing the existing heating systems with the energy efficient Glen Dimplex Quantum system. This heating upgrade offered householders up to 20% increased efficiency compared to their existing electric heating system. This was a new scheme to offer a viable alternative in energy efficiency heating to those homes currently being heated by old inefficient electric storage heating systems as well as those homes off the current NI gas network that required an energy efficient heating system.

This scheme also offered £800 towards insulation measures.

This scheme delivered heating upgrades to 72 properties.

#### **Measures Summary**

Loft Insulation	3
Quantum Heating Upgrade	72

#### **AIRT 14 04 MP Home Energy Saver**

This was a whole house scheme geared towards priority households who met set vulnerability criteria. This scheme targeted vulnerable tenants in rental properties (via private landlords) and fuel poor householders with no heating, Economy 7 or solid fuel heating and provided a new energy efficient heating system and a package of insulation measures. This scheme supported those who fell outside the Warm Homes criteria.

Eligible customers were offered a gas energy efficient heating system, if on the gas network, or an oil energy efficient heating system elsewhere. A grant of £3,700 was available for heating system upgrade/replacement. Those householders that availed of the scheme would also be able to avail of discounted installation of cavity wall insulation and/or loft insulation up to the value of £800.

#### **Measures Summary**

Loft Insulation	68
Cavity Wall Insulation	12
Replacement Heating	210

#### **ESL 14 03 MP Thermal Comfort Free Insulation**

This was a priority individual measures scheme, designed to give grant assistance to insulate the cavity wall and the loft of a home. It targeted the private rented market, the owner occupier and fuel poor senior citizens who met the scheme criteria.

A grant of up to £800 was available towards a package of measures which included: cavity wall insulation, loft insulation, hot water cylinder jacket and CFLs.

Overall, 1,493 insulation measures (CWI/LI) were installed in 1,409 properties.

#### **Measures Summary**

Loft Insulation	690
Cavity Wall Insulation	803
Low Energy Lights	5,728
Cylinder Jackets	56

#### **FIR 14 01 MP Home Comfort Tenant Oil**

This was a priority whole-house solution scheme providing a package of measures for private tenants within the firmus energy natural gas license network area. Qualifying applicants were deemed as “vulnerable” due to income level and had to have oil fired heating systems at least 15 years old, or an oil fired heating system broken down beyond repair.

The Home Comfort scheme offered £1,300 or £800 cash back towards a new natural gas heating system (income dependent) and up to £800 for insulation measures, for loft and/or cavity wall insulation. In addition an electricity energy monitor was fitted and 6 low energy light bulbs supplied to each household.

NISEP funds provided circa 50% funding for heating installation costs, providing a grant of £1,000. firmus energy provided a £300 contribution towards each heating installation bringing the cash back offer up to £1,300.

278 tenants availed of this scheme.

#### **Measures Summary**

Loft Insulation	174
Cavity Wall Insulation	4
Replacement Heating	278
Low Energy Lights	1,428
Energy Monitors	234

#### **FIR 14 02 MP Home Comfort £1800 Cashback**

This was a priority whole-house solution scheme providing a package of measures for tenants and owner occupiers within the firmus energy natural gas license network area. Qualifying applicants would be deemed as “vulnerable” due to income level, have Economy 7 heating, solid fuel heating, LPG heating (15 years old) or no functional heating system installed.

A cash-back of £1,800 was available (£1,500 through NISEP and firmus energy providing a £300 contribution) towards a new natural gas heating system and up to £800 for insulation measures, for loft and/or cavity wall insulation. In addition, an electricity energy monitor and six low energy light bulbs were offered to each household.

With this year's scheme 319 households received a new energy efficient natural gas heating system in addition to insulation and other smaller measures. Customers provided, on average, a £1,500 contribution towards the heating upgrade.

#### **Measures Summary**

Loft Insulation	193
Cavity Wall Insulation	5
Replacement Heating	319
Low Energy Lights	1,052
Energy Monitors	248

#### **FIR 14 03 MP Home Comfort Plus - Free Heating**

This was a fully funded priority whole-house solution scheme providing a package of measures to private tenants and owner occupiers within the firmus energy natural gas license network area. Qualifying applicants were deemed as "vulnerable" due to income level, with oil fired heating (15 years old), Economy 7 heating, solid fuel heating, LPG heating (15 years old) or no functional heating system installed. There was no financial contribution required of the householder.

The scheme included the free installation of a new fully controlled natural gas heating system and up to £800 for insulation measures, for loft and/or cavity wall insulation. In addition an electricity energy monitor was fitted and six low energy light bulbs supplied to each household.

The Home Comfort Plus scheme was designed to target those households who did not qualify for the Warm Homes Plus scheme and the NIHE Boiler Replacement Scheme. firmus energy provided a £300 contribution towards each heating installation. There was no customer contribution on Home Comfort Plus.

This year's scheme installed 142 new heating systems.

#### **Measures Summary**

Loft Insulation	89
Replacement Heating	142
Low Energy Lights	528
Energy Monitors	132
Cavity Wall Insulation	2

#### **LEAF 14 01 OP Water Widget**

This was an individual measure scheme that provided a hot water consumption-reducing shower flow regulator into priority Northern Ireland homes. This was a priority scheme targeted at any priority customer who provided a declaration that they met the vulnerability qualification criteria set.

To distribute the measure, there were manned distribution points in retail shopping centres or large format stores that used a data capture “coupon”. The field agents completed the coupon with all the relevant customer information and also with confirmation that vulnerability criteria were met. Application for the Water Widget pack could also be sought via a website application and a pack distributed by post. Finally, there was field based distribution via third party charity partnerships, at events and via their distribution channels.

**Measures Summary**

Shower Flow Regulator 91,906

**PNI 14 01 MP Energy Saver Homes (Solid Fuel & E7)**

This scheme provided a whole house solution package to a range of vulnerable customers who met the agreed criteria. The scheme targeted vulnerable householders with no heating, Economy 7 or solid fuel heating. Eligible customers were provided with a new energy efficient heating system (gas if on the network, or oil if not) and a package of insulation measures up to the value of £800. Each property also received four energy efficient light bulbs. Referrals were generated via a range of referral partners including Northern Investing for Health council areas, NEA and the Power NI freephone number.

**Measures Summary**

Loft Insulation 26  
 Cavity Wall Insulation 2  
 Replacement Heating 230  
 Low Energy Lights 920  
 Hot Water Cylinder Jacket 1

**PNI 14 03 MP Cosy Homes (Solid Fuel and E7)**

The aim of this scheme was to install energy efficient heating and insulation measures in housing association (HA) properties to raise the standard of heating systems and the thermal quality of homes in the HA stock. A grant of up to £1,000 was offered for heating and £100 towards insulation. Each property received two CFLs, with each tenant also receiving in-home energy saving advice.

In total, six housing associations signed up to the scheme and they were responsible for identifying suitable properties and contributing the remaining costs for the measures.

**Measures Summary**

Loft Insulation 52  
 Replacement Heating 255  
 Low Energy Lights 510

**PNI 14 08 IP Free Cavity Wall Insulation**

This scheme installed cavity wall insulation in vulnerable customers' homes who met the agreed income criteria. Eligible householders were also provided with four energy saving light bulbs. The maximum value of the grant available to customers was £800.

Referrals were generated through a network of referral partners across Northern Ireland including Northern Investing for Health council areas, Western HAZ MARA Project, Age NI, CAB and the Power NI freephone number. The scheme was also promoted on the Power NI website, with customers able to register online. The scheme supported 1,011 households with an insulation upgrade.

#### **Measures Summary**

Cavity Wall Insulation	1,011
Low Energy Lights	4,044

#### **PNI 14 09 IP Free Loft Insulation**

This scheme, supported by DARD funding, installed loft insulation in vulnerable customers' homes who met the agreed income criteria. DARD funding placed a focus on identifying referrals specifically in rural areas that would benefit from loft insulation. Eligible householders were provided with a package of loft insulation, four energy saving light bulbs and a hot water cylinder jacket, where required. The maximum value of the grant available to customers was £800.

Referrals were generated through a network of referral partners across Northern Ireland including Northern Investing for Health council areas, Western HAZ MARA Project, Age NI, and the Power NI freephone number. The scheme was also promoted on the Power NI website, with customers able to register online. The scheme supported 1,537 households with an insulation upgrade.

#### **Measures Summary**

Loft Insulation	1,537
Low Energy Lights	6,044
Cylinder Jackets	289

#### **PNI 14 10 IP Energy Saving Packs**

The aim of this scheme was to provide a package of energy saving measures to vulnerable, low income customers to help them identify their current energy usage and ways they can make savings. Each pack contained a range of products including; energy monitor, two energy saving light bulbs, radiator foils, shower flow regulator, and a hot water tank jacket.

1,000 packs were made available and issued via a range of referral partners including NEA, Warmer Ways to Better Health council areas, Bryson Energy and Advice NI.

#### **Measures Summary**

Energy Monitors	1,000
Low Energy Lights	2,000



Radiator Panels	1,000
Shower Flow Regulator	1,000
Cylinder Jacket	1,000

**PNI 14 12 IP                      Cosy Homes Insulation**

The aim of this scheme was to install cavity wall and loft insulation in housing association properties. A grant of £100 towards each of the insulation measures was provided. Each property received two CFLs and each tenant was given energy saving advice.

All eight of the housing associations who registered for the scheme were responsible for identifying properties suitable for the grant and contributing the remaining costs of the measures. This scheme installed 727 insulation measures.

**Measures Summary**

Loft Insulation	607
Cavity Wall Insulation	120
Low Energy Lights	1,454

**NON-PRIORITY SCHEMES**

**ENA 14 01 LNP                      High Bay/LED Lighting Enhancement**

This scheme involved replacing the original metal halide installation with High Bay / LED luminaries, resulting in the connected lighting load being reduced. Each fitting had a dimming and movement detection option. This solution has proven to greatly reduce costs as each fitting is individually controlled, improving the lighting environment and maximising savings. Target audience was companies that operated between 16 and 24 hours per day and a 20% grant was available.

**Measures Summary**

High Bay Lighting	86
LEDs	1,498

**ENA 14 02 LNP                      Fluorescent/LED lighting**

This scheme involved replacing T12/T8 Fluorescent Light Fittings with Low Energy Linear Compact Fluorescent/T5 Luminaires/LEDs plus an integrated daylight/occupancy sensor, or LED tubes in Industrial/Commercial Business Premises. A grant of 20% grant was offered. Energia's target audience was companies that operated between 15 and 24 hours per day.

This scheme installed 4,546 measures throughout 24 companies.

**Measures Summary**

LEDs	4,113
Fluorescent Lighting	433

**ENA 14 04 ONP      Variable Speed Drives**

This scheme offered a 30% grant towards the installation of inverter technology on electric motors to take advantage of the substantial energy savings achieved in reducing motor speed.

In total 17 VSDs were installed in five companies. Electric drives are extensively used in most industrial business premises. This scheme targeted industrial/large commercial users in Northern Ireland with the aim of installing 'Variable Speed Units'.

**Measures Summary**

Variable Speed Drives                      17

**ENA 14 05 ONP      Variable Speed Compressors**

This scheme offered a grant of 20% to replace single speed compressors with a new 'variable speed model' complete with air leak detection, taking advantage of the substantial energy savings achieved reducing motor speed and minimising leaks.

Energia's target audience was companies that operated between 15 and 24 hours per day, with an aim to also look for opportunities where there is potential to reduce the speed further, include additional mechanical controls and repair air leaks in badly maintained systems.

In total 16 VSCs were installed.

**Measures Summary**

Variable Speed Compressors            16

**ENA 14 06 ONP      Heat Recovery/Compressed Air Systems**

This scheme offered a 30% grant towards the install of heat exchangers to existing compressed air systems, recycling the heat to save energy and reduce costs.

Although only one project went ahead, Energia believe this innovative heat recovery system, which aims to recover a high percentage of the energy that is wasted, will build on this success, as it is cost-effective to install.

**Measures Summary**

Heat Recovery                                      1

**ENA 14 07 ONP      Boiler Burner Controllers**

This project was for the retrofitting of a new boiler burner control, designed to efficiently manage the use of the inefficient second-stage fire of commercial heating boilers. The target audience was for NI commercial customers and a grant of 20% was available.

Energia was of the opinion that this scheme did not progress due to the product being a new technology. A small amount of NISEP funding was claimed for the initial marketing of this scheme, but no installations were carried out.

**Measures Summary**

Boiler burner controls	0
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**ENA 14 08 ONP      SME Lighting and Controls**

This scheme involved the supply and delivery of LED tubes and lamps, a time-switch control and an energy monitor package. A grant of 20% was available.

The target audience was small shops and office businesses. Through this scheme Energia have brought a number of technologies together into one project so that together the savings targets can be achieved. The project was designed to provide a solution to reduce consumption in each of these areas. These included; an energy monitor –and software and LED lamps (The package was designed so that the customer could order the amount they required and choose between the spot-lights or four, five or six-foot tubes), time-switch controls (to be used on the refrigerated drinks machine so it can be switched off when the premises are unoccupied), and a Sava-socket – (a six-way extension with smart controls designed to switch off all appliances when the main appliance is turned off).

Four projects availed of the offer, installing a mix of over 1,000 measures.

**Measures Summary**

LEDs	1,045
Energy Monitor	4
Savasocket	4
Timeswitch	4

**ENA 14 09 ONP      Compressed Air Control System**

This scheme involved the design and installation of control and management systems for compressed air generation and vacuum installations. The target audience was NI commercial customers and a 30% grant was available for customers.

Energia was of the opinion that this scheme did not progress due to the product being a new technology. A small amount of NISEP Funding was claimed for the initial marketing of this scheme.

**Measures Summary**

Control & Management System	0
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**ENA 14 10 LNP Aluminium Compressed Air Piping**

This scheme involved the design and replacement of compressed air line pipework, fittings and joints. Using TESEO's patented joint clamping and sealing system, to replace existing pipework, eliminates air leaks whilst improving efficiency. The target audience was NI commercial customers and a 50% grant was available.

Energia understands that this scheme did not progress for a number of reasons, customers not being able to get finance sign off and the comprehensive surveys carried out over a long period of time to ensure that the pipework was the best option.

A small amount of NISEP Funding was claimed for the initial marketing of this scheme.

**Measures Summary**

Replacement of Compressed air line pipework 0

**ESL 14 02 INP 150 Insulation Grant**

This scheme was designed to give grant assistance to insulate the cavity wall and the loft of a home. Home owners were offered an 'up-front discount' deal on both cavity wall and loft insulation. A minimum installation value of £250 applied for either loft or cavity wall installation work to qualify for the grant. The customer received a maximum cashback of £150 on the installed costs for each type of insulation. The maximum grant available where both loft and cavity wall insulation was installed was £300.

There were 1,369 cashbacks provided of which 1,230 houses benefitted.

**Measures Summary**

Cavity Wall Insulation 937  
Loft Insulation 432

**PNI 14 14 ONP Variable Speed Drives**

This scheme provided commercial customers with a grant towards a range of variable speed drive options including motors for ventilation, water circulation, air compressors and controls upgrades. In total 36 grants were offered to a range of local businesses. Grant levels were calibrated according to the predicted energy savings for the size and running hours of the VSD, with a maximum grant of up to £10,000 or 35% of the total project cost (whichever was the lesser amount) made available.

The scheme was promoted via the Power NI website, insert into business and farm bills which went to over 35,000 customers and local VSD suppliers / installers.

**Measures Summary**

Variable Speed Drives 36

**PNI 14 15 INP            Business Insulation**

The aim of this scheme was to encourage commercial premises to insulate lofts and cavity walls to help them improve the efficiency of their buildings, and also to save money on their energy bills.

A grant of up to 30% was provided towards the cost. The scheme was promoted via the Power NI website, NI Business info website, and a bill insert which was issued to over 35,000 commercial and farm customers. Whilst there was initial interest from customers, only one commercial customer took up the scheme, despite the promotion of it to a wide customer base.

**Measures Summary**

Loft Insulation	1
Cavity Wall Insulation	1

**PNI 14 16 LNP            Commercial LED Lighting**

This scheme promoted the uptake of LED lighting in the commercial sector. For many non-domestic premises lighting accounts for a significant element of energy costs. Grants were provided to a range of local businesses and the public sector. This scheme aimed to meet the growing demand for LED lighting with a grant of up to 20% provided to a range of businesses across Northern Ireland. Grant levels varied depending on the cost and efficiency of each bulb. The grant was promoted via the Power NI website, NI Business Info website and a number of local and active LED installers and suppliers.

**Measures Summary**

LEDs	8,498
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**WFL 14 02 I NP            Keeping You Warmer**

This scheme was provided with funding half way through the NISEP year, from underspend in the previous year. It was designed to give grant assistance to insulate the cavity wall and the loft of a home. Home owners were offered an 'up-front discount' on both cavity wall and loft insulation. A minimum installation value of £250 applied for either loft or cavity wall installation work to qualify for the grant. The customer received a maximum cashback of £150 on the installed costs for each type of insulation. The maximum grant available where both loft and cavity wall insulation was installed was £300.

There were 118 cashbacks provided for 113 houses.

**Measures Summary**

Cavity Wall Insulation	109
Loft Insulation	9

End.