

Environmental Management System Annual Report 2015/16



Environmental Management System Annual Report 2015/16

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CEO's Statement

I am delighted to introduce the College's Annual Environmental Management System (EMS) Report for 2015-16 for Grŵp Llandrillo Menai.

The Grŵp has implemented a programme of environmental and sustainability initiatives over a period of years and I am pleased with the real progress that is being made across the college's operation.

The Grŵp is committed to maintaining Level 5 Green Dragon Environmental Standard

As CEO of the largest further education educational provider in Wales, I am committed to improving the Grŵp's environmental performance, tackling climate change as far as we can, and most importantly reducing the Grŵp's ecological impact.

Signed



Glyn Jones OBE

CEO Grŵp Llandrillo Menai

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Executive Summary

This report presents the 2015-16 environmental performance of Grŵp Llandrillo Menai.

Key Findings

In 2015-16, the Grŵp:

- Used a total of 13,369,768 kWh energy, an 8.4% reduction compared with 2014-2015. The total cost of energy was £971,020 a saving of £143,408 compared with 2014/15. This included;

An 11% decrease in gas usage across the Grwp.

A 4% decrease in electricity use across the Grwp.

A 4% increase in wood pellets for MBEC boiler

A 17% decrease in propane used at Glynllifon.

- Reduced mileage by 5% for staff using their own private vehicle for College business to 1,071,294 miles. The cost of mileage for staff using their own vehicle for College business for 2015-16 was £454,264 a saving of £6,407. Mileage for staff using fleet cars also reduced by 10% whilst fleet minibus use increased by 0.5%.
- Generated 796 tonnes of waste of which 685 tonnes was recycled. The amount of waste generated across the Grŵp decreased by 0.4% compared with 2014-15 and 86% of waste was recycled across the Grwp in 2015-16 compared with 85% in 2014-15.
- Consumed 63,839 m³ of water, which was a decrease of 1,675 litres compared with 2014-15, a saving of £10,346.
- Used 10% less paper for printers and photocopiers compared with 2014-15.
- Produced a total of 488 tonnes of CO₂ equivalent emissions from livestock at Glynllifon.
- Produced a carbon gain of 1.2 tonnes of CO₂ equivalent emissions from tree planting at Glynllifon.
- Produced 5,053 tonnes of CO₂ equivalent emissions a reduction of 4.8% compared with 2014-15.

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- **Introduction**

In April 2012, Coleg Llandrillo, Coleg Meirion Dwyfor and Coleg Menai merged to form Grŵp Llandrillo Menai. The merger has created Wales' largest Further Education Institution and one of the largest FE college groups in the UK. The Grŵp employs 2,100 staff and delivers courses to around 34,000 students across four counties, Denbighshire (Rhyl and Denbigh), Conwy (Rhos and Abergele), Ynys Môn (Llangefni and Holyhead) and Gwynedd (Bangor, Dolgellau, Pwllheli, Glynllifon and Caernarfon).

The Grŵp aims to have as low an effect as possible on the local environment and encourages staff and students to support this mission. The Grŵp also aims to equip students to enter the workplace with an appreciation of environmental issues.

The Grŵp's Mission, Vision and Values

The Grŵp will

“Manage our services, resources and facilities in a sustainable manner”

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SUSTAINABILITY AND ENVIRONMENTAL POLICY

Grŵp Llandrillo Menai was formed in April 2012 following the merger between Coleg Llandrillo, Coleg Menai and Coleg Meirion Dwyfor. The Grŵp has sites in Conwy, Denbighshire, Gwynedd and Anglesey with provision at a large number of community based venues. The Grwp provides a wide range of education and training, both full and part-time, at Further and Higher Education levels and has approximately 2,100 staff and attracts about 34,000 students.

Grŵp Llandrillo Menai seeks to develop, amongst all its staff and students, an understanding of environmental and sustainability issues, both local and global, and an appreciation of the institution as an environmental agent.

Objectives of the Policy:

To make sustainability, environmental best practice and global citizenship part of every aspect of College life.

To ensure compliance with all relevant legislation and adopt policies which will contribute to a sustainable future.

To ensure the development and adoption of an environmental management system which prevents pollution and ensures continual improvement in the College's environmental performance.

To promote awareness of energy and water use amongst all members of the College and to improve the efficiency in use of these resources.

To reduce the consumption of materials where possible and to extend the life of materials where practicable.

To recycle or re-use materials where possible and to dispose of waste in the least environmentally damaging way.

To ensure that the College has a minimal negative effect on the local environment and makes a positive contribution to the local community and its environment.

To ensure that all students and College staff are aware of environmental issues and to provide a range of courses and training in relevant topics.

To ensure that all staff and students are aware of the environmental impacts of transport and to encourage the use of alternative forms of transport.

To monitor progress on a regular basis to identify areas for improvement.

Signed



Glyn Jones OBE
(C.E.O.)

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The Environmental Management System

The Grŵp's Environmental Management System is designed to ensure:

- Compliance with any relevant legislation
- Awareness of the Grŵp's environmental impacts
- The reduction of the impacts and continual improvement of performance.

The CEO has overall responsibility for the EMS, including the Environmental Policy and providing adequate resources for implementing and maintaining the system on a strategic basis.

A review of the EMS is carried out annually. The review addresses the following issues:

- A review of environmental performance
- A review of non-conformance and audit reports
- Confirmation of preventative actions
- A review of achievement against current objectives and targets
- Setting of new objectives and targets
- A review of the Environmental and Sustainability Policy, the Environmental Manual, Procedures and Work Instructions to check that they are still relevant to the overall policies and objectives of the Grŵp.
- A review of environmental training needs
- A review of significant aspects and impacts
- A review of the effectiveness of environmental projects undertaken by the Grŵp.

The necessary documents and procedures to ensure that the Grŵp continues to meet the requirements of the Green Dragon Environmental standard are available on the Grŵp intranet.

A copy of this report and further information on Coleg Llandrillo, Coleg Menai and Coleg Meirion Dwyfor is available on the Grŵp web site www.gllm.ac.uk

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Aspects and Impacts

The key activities relating to the Grŵp's operations have been identified within the environmental review. The activities which produce the most significant aspects and impacts include: use of electricity and gas, transport, use of paper, waste production and water.

The aspects and impacts significance are rated using a prioritisation matrix. A "traffic light" system has been developed to prioritise the impacts. A red indicates that the impact is significant, amber that the impact could become significant and green indicates that the impact is not deemed significant. These are recorded in the Aspects and Impacts Register.

The aspects and impacts that are identified as the most significant are selected for inclusion in the annual objectives and targets following an annual review.

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Review of Targets for 2015-16

- ❖ To reduce carbon dioxide emissions due to the use of electricity, based on the 2014-15 data:

The target set for the reduction of carbon emissions due to the use of electricity was a reduction of 1% at all sites.

There was an overall decrease in electricity use of 4% across the Grŵp; Coleg Llandrillo reduced electricity use by 5%; Coleg Menai reduced electricity use by 7%; electricity use at Coleg Meirion Dwyfor sites decreased by 4%.

The target was therefore met

- ❖ To reduce carbon emissions due to the use of gas, based on 2014-15 data

The target set for reduction of carbon emissions due to the use of gas was set at 5% for all sites.

There was an overall decrease in gas use of 11% across the Grŵp; at Coleg Llandrillo sites, there was a decrease of 5%, at Coleg Meirion Dwyfor sites a decrease of 10% and at Coleg Menai sites a decrease of 15%.

The target was therefore met.

- ❖ To reduce carbon emissions due to the use of LPG

The target set was to reduce the use of LPG at Glynllifon by 1% of the 2014-15 use

There was a 17% decrease in the use of propane

The target was therefore met.

- ❖ To reduce carbon emissions due to travel on Grŵp business.

The target was set to reduce miles travelled on Grŵp business by 1% of 2014-15 mileage.

Mileage for staff using their own private vehicle for College business decreased by 5%.

Mileage of minibuses has increased by 0.5% and the mileage for College fleet cars decreased by 10%.

The target was therefore met.

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- ❖ To reduce carbon emissions due to travel to work

The target was to continue to promote the cycle to work scheme.

The cycle to work scheme is continually being promoted. Up until August 2016, 122 staff have joined the scheme, of which 33 joined the scheme in 2015-16.

The target was therefore met.

- ❖ To reduce carbon emissions due to travel to work

The target was to continue to promote the car sharing scheme for staff and to introduce the car sharing scheme for students in September 2015.

The Liftshare Scheme has continued to be promoted and was introduced to students in September 2015.

The target was therefore met

- ❖ To reduce the impact on resource depletion due to water use

The target set was to reduce water use by 1% of the 2014-15 data.

Across the Grŵp, there was a 2% decrease in water usage.

There was a 4% decrease in water usage at Llandrillo sites, 11% increase at Meirion Dwyfor sites and a 26% reduction at Menai sites.

The target was therefore met.

- ❖ To reduce the impact on resource depletion due to paper use

The target set was to reduce the quantity of paper used by 1% of the 2014-15 data.

There was a 10% decrease in paper usage throughout the Grŵp

The target was therefore met.

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- ❖ To reduce the impact on the use of resources due to the disposal of waste to landfill.

The target set was to increase the quantity of waste recycled to 99% of the total amount of waste produced at Coleg Llandrillo sites, to 50% of the Coleg Meirion Dwyfor sites and 92% at the Coleg Menai sites.

98% of waste was recycled at the Coleg Llandrillo sites.

50% of waste was recycled at Coleg Meirion Dwyfor

93% of waste was recycled at Coleg Menai

The target was therefore not met.

- ❖ To reduce the Grŵp's impact on climate change

The target set was to continue planting of hedgerow and mixed woodland trees by August 2016 and onwards

Hedgerow and tree planting is on-going at Glynllifon; tree planting has taken place in 2015/16 with 12,000 mixed trees planted over 5 hectares.

The target was therefore met.

- ❖ To increase the level of Environmental Awareness amongst staff

The target set was to carry out one to one and group Environmental Awareness talks within departments during 2014/15.

Environmental awareness talks were given to new staff throughout the Grwp in 2015/6.

The target was therefore met.

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Environmental Performance

Energy

2015-16 Performance

Gas

	kWh		CO ₂ (kg)	
	2014-15	2015-16	2014-15	2015-16
Coleg Llandrillo	2,900,042	2,748,140	536,429	508,331
	£110,217	£72,611	(13.9kg CO ₂ /m ²)	(13.1kg CO ₂ /m ²)
	(75 kWh/m ²)	(71 kWh/m ²)		
Coleg Meirion Dwyfor	1,596,292	1,439,047	295,270	266,185
	£72,106	£49,741	(18.9kg CO ₂ /m ²)	(17.0 kg CO ₂ /m ²)
	(102 kWh/m ²)	(92 kWh/m ²)		
Coleg Menai	3,714,296	3,144,928	687,044	581,727
	£145,202	£114,082	(19.8 kg CO ₂ /m ²)	(16.8 kg CO ₂ /m ²)
	(107 kWh/m ²)	(90 kWh/m ²)		
Total	8,210,630	7,332,115	1,518,743	1,356,243
	£327,525	£236,434	(17.8 kg CO₂/m²)	(15.2 kg CO₂/m²)
	(92 kWh/m²)	(82 kWh/m²)		

Gas usage in 2015-16 decreased by 5% at Llandrillo sites, 10% at Coleg Meirion Dwyfor Sites and by 15% at Menai Sites. Overall the gas usage decreased by 11% across the Grŵp despite the temperature being colder during 2015-16 compared with 2014-15. A change in catering facilities at Menai sites would have contributed to the gas usage saving as well as general improvements on heating control throughout the Grŵp.

The decrease in gas usage resulted in a cost saving of £91,091.

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Electricity

	kWh		CO ₂ (kg)	
	2014-15	2015-16	2014-15	2015-16
Coleg Llandrillo	2,892,797 £368,609 (77 kWh/m ²)	2,757,063 £332,072 (73 kWh/m ²)	1,429,793 (38 kg CO ₂ /m ²)	1,362,705 (36 kg CO ₂ /m ²)
Coleg Meirion Dwyfor	1,030,955 £154,044 (50kWh/m ²)	991,855 £156,555 (48 kWh/m ²)	509,559 (24 kg CO ₂ /m ²)	490,234 (25 kg CO ₂ /m ²)
Coleg Menai	1,935,645 £263,020 (55 kWh/m ²)	1,805,079 £228,441 (55 kWh/m ²)	956,711 (27 kg CO ₂ /m ²)	892,177 (25 kg CO ₂ /m ²)
Total	5,859,397 £785,673 (63 kWh/m²)	5,553,997 £717,068 (59 kWh/m²)	2,896,063 (31 kg CO₂/m²)	2,745,116 29 kg CO₂/m²)

There was a reduction of electricity usage at the Llandrillo sites of 5% at Meirion Dwyfor sites, the electricity usage decreased by 4% and there was a decrease in electricity usage of 7% at the Menai sites.

Overall, across the Grŵp, there was an electricity usage reduction of 5%. This resulted in a saving of £68,605.

Propane

Propane is used for heating and cooking at Glynllifon

	litres		CO ₂ (kg)	
	2014-15	2015-16	2014-15	2015-16
Glynllifon	52,934	£11,337	43,692	£7,851
			79,520	65,636

There was a 17% decrease in the use of propane and a saving of £3,486.

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Wood Pellets

Wood pellets are used as the main source of heating in the MBEC building at the Rhos site.

	kWh				CO ₂ (kg)	
	2014-15		2015-16		2014-15	2015-16
MBEC	170,803	£8,066	177,812	£9,666.84	2,022	2,099

There was a 4% increase in the use of wood pellets at an additional cost of £1,601 however, as at 1st August 2016, the hopper containing the pellets was full.

During 2014-15, there were times when the boiler had not been working due to faults which would have resulted in a lower usage of wood pellets for this period.

A gas boiler in MBEC is used for hot water during the warmer weather as this is more efficient than firing up the biomass boiler.

The teaching block at Glynllifon is heated by a wood chip boiler. The wood chip is harvested from the Grŵp's own forestry plantation and therefore students are involved in the growing and production of the heating material for their building.

The Energy Centre at Llangefni uses ground source energy for heating the building.

The UCCL Building at Rhos on Sea uses photovoltaic cells for energy.

Photo voltaic cells have been installed on all new buildings on the Grŵp estate.

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Transport

2015-16 Performance

Student Transport

The Grŵp together with Conwy, Denbighshire and Flintshire LEAs provides free transport for students under 18 who live more than three miles from the College site that they attend.

College Vehicles and Private Mileage

Mode of Transport	2014-15 (miles)	2015-16 (miles)	2014-15 (kgCO2e)	2015-16 (kgCO2e)
College fleet cars (Inc. small vans)	203,458	182,146	48,136	43,093
Minibuses (Inc. large vans)	206,676	207,701	76,663	77,043
Private vehicles (all Grwp)	1,123,591	1,071,294	290,426	276,908
Total	1,533,725	1,461,141	415,225	397,044

The figures show that the mileages for staff using their own private vehicle for College business has decreased by 5%.

Mileage of minibuses has increased by 0.5% and the mileage for College fleet cars decreased by 10%.

The cost of mileage for staff using their own vehicle for College business for 2015-16 was £454,264.

Secure storage for bicycles is provided at all sites and a 10% discount for the purchase of bicycles has been negotiated with some retailers. To encourage staff to cycle to work the Grŵp has continued the cycle to work scheme. A total of 122 staff have signed up to this scheme since it began, 33 during 2015-16.

A car share scheme for staff was introduced in September 2014 for staff and was introduced to students in September 2015.

The Grŵp has negotiated a reduction in the cost of the weekly Arriva bus ticket for both staff and students.

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Waste

2015-16 Performance

Coleg Meirion Dwyfor and Coleg Menai employ mixed recycling; the waste at Coleg Llandrillo is separated into specific streams. There are differences between Local Authorities in how they dispose of general waste. All general waste generated at Gwynedd and Môn sites is sent to landfill whilst general waste generated at Conwy and Denbighshire sites is sorted further, hence recycle figures for Conwy and Denbighshire sites will be higher than Gwynedd and Môn.

Coleg Llandrillo Sites

	Total waste kg	Waste to landfill kg	Waste recycled kg	2015-2016 % waste recycled
Rhos	221,875	4,301	217,574	98%
Rhyl	95,030	1,194	93,836	99%
Abergele	7,352	114	7,238	98%
Bay Learning	1,770	13	1,757	99%
Total	326,027	5,622	320,405	98%

Coleg Menai Sites

	Total waste kg	Waste to landfill kg	Waste recycled kg	2015-2016 % waste recycled
Llangefni inc. (Penrallt)	216,666	13,018	203,648	94%
Holyhead	2,920	452	2,468	85%
Friars	9,995	276	9,719	97%
Parc Menai	17,240	1,605	15,635	91%
Bangor Main	46,309	1,350	44,959	97%
Caernarfon	2,730	1,470	1,260	46%
Total	295,860	18,171	277,689	93%

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Coleg Meirion Dwyfor Sites

	Total waste kg	Waste to landfill kg	Waste recycled kg	2015-2016 % waste recycled
Pwllheli (inc. Hafan)	41,191	23,415	17,776	43%
Glynllifon	53,865	30,769	23,096	42%
Dolgellau (inc. Marian Mawr)	78,767	32,513	46,254	58%
Total	173,823	86,697	87,126	50%

The percentage of waste recycled at Llandrillo sites remained at 98%, the same as 2014/15. At Menai sites the percentage of waste recycled increased from 90% to 93% and at Meirion Dwyfor sites the percentage increased from 48% to 50% compared with the previous year.

Although both Llandrillo and Menai sites decreased the amount of waste produced compared with 2014-15, Meirion Dwyfor waste increased by 5.5%, this was due to the Marian Mawr units at Dolgellau increasing in size and therefore increasing in students and in curriculum provision.

The total amount of waste produced decreased by 0.4% across the Grŵp compared with 2014-15.

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Glynllifon Farm Livestock

Livestock	Approx annual head count	2014-15 (kgCO ₂ e)	Approx annual head count	2015-16 (kgCO ₂ e)
	2014-15		2015-16	
Dairy Herd	150	178,030	270	320,454
Beef Herd	219	140,160	130	83,200
Pigs	168	14,580	250	21,696
Sheep	615	66,060	550	59,078
Lambs	15	310	12	248
Horses	10	3,190	10	3,190
Total		402,330		487,866

Emissions from livestock at Glynllifon totalled 488 tonnes.

Glynllifon Tree Planting

Type of tree	Area (hectares)	2014-15 (kgCO ₂ e) Gain	Area (hectares)	2015-16 (kgCO ₂ e) Gain
	2014-15		2015-16	
Hardwood	6.12	1200	4	784
softwood	6.64	2460	1	370
Total	12.76	3,660	5	1,154

At Glynllifon approximately 12,000 trees were planted over 5 hectares. Tree species include hardwoods; Sessile Oak, Cherry, Birch, Hazel, holly and softwoods; Sitka Spruce, Norway Spruce, Scots Pine and Alder. The carbon gain from tree planting equates to 1,154 kgCO₂e.

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Greenhouse Gas Emissions *2015-16 Performance*

Carbon dioxide emissions were calculated from the buildings' energy use, transport and livestock.

Aspect	Kg CO ₂ 2014-15	Kg CO ₂ 2015-16
Electricity	2,896,063	2,745,116
Gas	1,518,743	1,356,243
LPG	79,520	65,636
Wood pellets	2,022	2,099
Transport	415,225	397,044
Glynllifon Farm Livestock	402,330	487,866
Glynllifon Tree Planting Carbon gain	-3,660	-1,154
Total	5,310,243	5,052,850

The Carbon emissions for 2015-16 decreased by 4.8% compared with 2014-15.

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Water

2015-16 Performance

Coleg Llandrillo Sites

Site	2014-15		2015-16	
	Use (m ³)	cost	Use (m ³)	cost
Rhos	16,362	£49,446	16,639	£49,730
Rhyl	3,988	£12,579	2,918	£9,314
Denbigh	678	£2,108	906	£2,737
Bay Learning	519	£1,642	306	£999
Total	21,547	£65,775	20,769	£62,780

There was an overall decrease of 3.6% in water usage at the Coleg Llandrillo sites, a saving of (£2,995).

Coleg Meirion Dwyfor Sites

Site	2014/15		2015/16	
	Use (m ³)	cost	Use (m ³)	cost
Dolgellau (inc. Marian Mawr)	2,372	£8,460	2,929	10,309
Pwllheli (inc. Hafan)	962	£3,691	954	£3,638
Glynllifon	25,499	£34,307	28,053	£36,813
Total	28,833	£46,458	31,936	£50,760

Overall the water usage at Meirion Dwyfor sites rose by 11% costing an additional £4,302. A water leak was discovered at Glynllifon which contributed significantly to this rise and additional construction units were operational at Marian Mawr.

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Coleg Menai Sites

Site	2014-15		2015-16	
	Use (m ³)	cost	Use (m ³)	cost
Bangor	4,339	£14,791	4,276	£14,475
Llangefni	6,694	*£21,110	3836	£12,563
Parc Menai	1,578	£5,916	1,064	£4,518
Bangor Friars	1,661	£5,229	1,122	£3,611
Caernarfon	564	£2,602	659	£2,844
Holyhead	178	£639	177	£623
Total	15,014	£50,287	11,134	£38,634

There was an overall decrease of 26% in water usage at Coleg Menai sites. There had been a major water leak at Llangefni in 2014-15 which is reflected in these figures.

Across the Grŵp, there was a 2% decrease in water usage (£11,653).

The MBEC and UCCL buildings at Rhos, PA@G at Glynllifon and the Technology Centre Llangefni use rainwater harvesting.

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Paper

2015-16 Performance

	Paper used (reams)	
	2014-15	2015-16
Llandrillo Sites	14,605	12,055
Meirion Dwyfor Sites	3,020	4,660
Menai Sites	8,755	7,030
Total	26,380	23,745

There was a 10% decrease in paper usage throughout the Grŵp.

A student printer allowance continues to be in place and staff are advised of their own printing total each time they print a document.

There are additional multifunctional devices throughout the Grŵp which are not limited. Departments are now ordering paper direct through Lyreco due to a change in procurement procedure.

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Training and Awareness

2015-16 Performance

The SHE Manager, Environmental Co-ordinator and other trained staff provide general environmental awareness training to both staff and students.

All caretaking staff have completed Spillage Training.

Environmental awareness talks have taken place with various departments within the Grŵp by the Environmental Co-ordinator.

Pollution Prevention

2015-16 Performance

A generic spillage response plan has been developed for sites where the risk of pollution from a spillage incident is assessed to be low. The Grŵp has developed Pollution Plans for Rhos, Rhyl, Glynllifon, Llangefni and Bangor and key staff have received training in dealing with spillages.

All areas maintain chemical inventories and store chemicals in bunded secure cabinets. Spill kits and spill absorbent materials are held at appropriate places.

Supply Chain

2015-16 Performance

The Procurement Manager is responsible for addressing sustainability issues when awarding supply contracts.

All building contractors must be registered as Considerate Constructors. All sites registered with the Scheme are monitored by an experienced industry professional to assess their performance against the eight point Code of Considerate Practice which includes the categories Considerate, Environment, Cleanliness, Good Neighbour, Respectful, Safe, Responsible and Accountable.

Under the environment section, the contractor must be aware of the environmental impact of the site and minimise, as far as possible, the effects of noise, light and air pollution. Efforts should be made to select and use local resources wherever possible. Attention should be paid to waste management; reduce, reuse and recycle materials where possible.

All contractors are required to attend a contractor's induction session, where they are made aware of the Grŵp's environmental concerns.

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Legislation

2015-16 Performance

The Grŵp has prepared a Register of Legal Requirements, which identifies environmental legislation that is relevant to its operations.

The Environmental Co-ordinator updates the register when necessary, using a number of sources including updates from Croner, Tarian and IEMA. The Grŵp will continue to meet its Duty of Care when disposing of waste, by using licensed carriers and retaining transfer notes for the required time span.

Audits

2015-16 Performance

The following audits were carried out in 2015-16

November 2015

Heavy plant (Llangefni): Category: Satisfactory

Engineering (Glynllifon): category: Non-Conformance due to storage of oil, now rectified.

December 2015

Bay Learning: Category: Satisfactory

Denbigh: Category: Satisfactory

January 2016

Hairdressing and Beauty Therapy (Rhos): Category: Satisfactory

MBEC (Rhos): Category: Satisfactory

Construction (Rhyl): category: satisfactory

Motor Vehicle and Body Repair (Rhyl): category: observation due to disposal of oily papers, now rectified

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Engineering (Rhos): category: satisfactory

Marine Technology (Rhos): category: satisfactory

Creative Arts (Rhos): category: satisfactory

June 2016

Marian Mawr (Dolgellau): category: satisfactory

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Biodiversity

2015-16 Performance

Each site in the Grŵp has a unique environment. The Rhos campus has developed a wild life break along one of its borders and there is a designated conservation area adjacent to the recently built UCCL building; the Rhyl campus is next to a SSSI. Part of the Glynllifon campus is designated a SSSI and a Special Area of Conservation. Bat boxes have been put up in the woods on site. Llangefni (Pencraig) is bordered by farmland.

The Grŵp has maintained the wet land area at the Rhos site. The Independent Learning students have taken charge of the pond area and are maintaining the area.

Hedgerow and trees have been planted at Glynllifon.

The Grŵp aims to increase the biodiversity of its sites where possible.

Renewables

2015-16 Performance

The Renewable Technology Unit is based at Rhos and at Llangefni. The available technology includes:

Photovoltaic cells, solar water heating and wind turbines.

The MBEC building utilises solar power for electricity production and water heating and wood pellets for heating.

The UCCL building uses solar panels for energy production.

The PA@G building at Glynllifon utilises solar power for electricity production and a woodchip boiler is used for heating the building.

The Technology building at Llangefni uses ground source heating, and solar panels for energy.

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Community

2015-16 Performance

The Grŵp encourages students to take part in Community activities. In 2015-16, these activities have included:

Bangor Business students helped the Bangor Cathedral food bank as part of their WBQ

ILS students Glynllifon carried out pond clearing, path maintenance, wall building, making bug hotels with Menter Fachwen

Glynllifon ILS students carried out scrub clearance, bat box making, litter picking, maintenance of wooden buildings and fences with the North Wales Wildlife Trust

ILS students, in conjunction with the Felin Project delivering recycled cans to them to assist with the Project funding.

Macmillan Coffee morning held in the Orme View Restaurant

Pathway to Construction Students carried out painting, decorating and general maintenance to Mochdre Sports Club and Cricket Club.

ILS students started clothes recycling at the Rhos site in aid of Scope.

Construction students constructed a large wooden dragon to house hundreds of posies made by school children to raise funds for the Royal British Legion and Blind Veterans UK charities.

Rhyl students created a Christmas market in aid of Guide Dogs for the Blind.

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Environmental Focus Group

2015-16 Performance

Regular meetings are held of the cross network Environmental Focus Group, which is chaired by the Executive Director Corporate Services. This group reviews environmental issues and elicits support for behavioural changes at all sites.

The Environmental Focus Group reports to the SHE Committee.

Communications

2015-16 Performance

Communication is an important part of the EMS. 'Y Llais' is a monthly newsletter emailed to all staff. Regular environmental items feature in the newsletter. An Environmental Handbook, which outline environmental issues at the Grŵp, reports on the previous year's results and suggests how staff can help improve the Grŵp's performance.

It is considered essential to include students in the decision making and there is student representation on the SHE Committee and the Environmental Focus Group.

Environmental awareness talks are given throughout the year to departments by the Environmental Co-ordinator.

New staff are given environmental awareness training at induction.

Future Goals

The Grŵp will continue to meet the requirements of Level 5 Green Dragon Standard.

The Grŵp will continue to reduce its environmental impacts and will continue to improve its environmental performance

The Grŵp will continue to encourage its students to appreciate their environment and to take part in environmental projects.

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Objectives and Targets 2016-17

Objective: To reduce carbon emissions due to the use of electricity

Target: To reduce the use of electricity by 1% based on 2015-16 data

Objective: To reduce carbon dioxide emissions due to the use of gas.

Target: To reduce the use of gas by 5% at all sites based on 2015-16 data

Objective: To reduce carbon emissions due to the use of LPG

Target: To reduce to the use of LPG at Glynllifon by 1% based on 2015-16 data

Objective: To reduce carbon emissions due to travel on Grŵp business

Target: To reduce miles travelled on Grŵp business by 1% of 2015-16 mileage.

Objective: To reduce carbon emissions due to travel to work

Target: To continue to promote the cycle to work scheme.

Objective: To reduce carbon emissions due to travel to work

Target: To continue to promote the car sharing scheme for staff and students and to undertake a survey of staff and student travel in 2016-17.

Objective: To reduce the Grŵp's impact on resource use

Target: To reduce the amount of water used by 1% based on 2015-16 data

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Objective: To reduce the Grŵp's impact on the use of resources

Target: To reduce the quantity of paper used by 1% based on the 2015-16 data

Objective: To reduce the Grŵp's impact on resource use.

Target: To increase the quantity of waste recycled to 99% of the total amount of waste produced at the Coleg Llandrillo sites, to 55% at the Coleg Meirion Dwyfor sites and 95% at Coleg Menai sites.

Objective: To reduce the Grŵp's impact on climate change

Target: To continue planting of hedgerow and mixed woodland trees by Aug 2017 and onwards.

Objective: To increase the level of Environmental Awareness amongst staff

Target: To carry out one to one and group Environmental Awareness talks within departments.

Objective: To engage with and contribute to the local community.

Target: Grŵp's learners to carry out at least 20 activities in which learners utilise their skills in their local community in 2016-17.