

# RENEWABLE ENERGY REPORT

REGO backed power sourced  
under the TEC framework

Swansea University  
April 2017 – March 2018



## Introduction

This report provides an overview of renewable electricity supply for the period April 2017 to March 2018, provided by way of Renewable Energy Guarantee of Origin (REGO) backed power sourced under The Energy Consortium (TEC) framework awarded to EDF Energy

**Under applicable greenhouse gas reporting standards, this enables Swansea University to state it receives a zero carbon electricity supply from EDF Energy for specific sites.**

## EDF Renewables for TEC Members

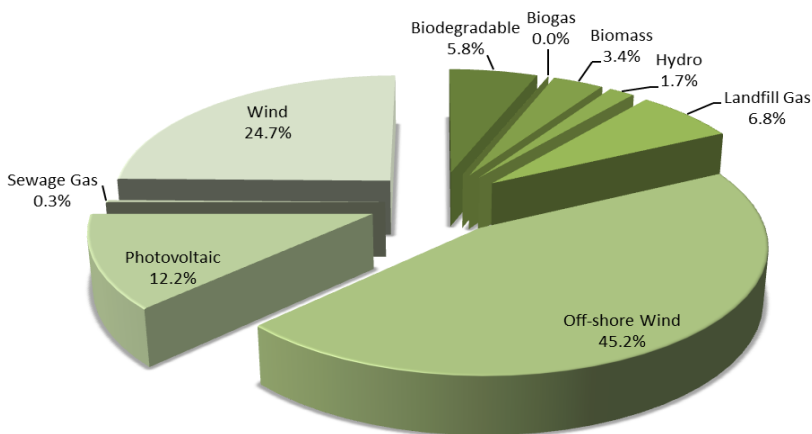
Renewables under the TEC framework is EDF Energy’s verifiable renewable electricity supply product which is fully backed by REGOs. The Renewable product, and its adherence to the GHG Protocol ‘Scope 2’ guidance and UK Fuel Mix Disclosure regulations, is independently assured by auditors PwC.

REGOs are electronic certificates awarded to accredited renewable generators for each Megawatt Hour (MWh) of power they generate. They are primarily used by UK electricity suppliers for Fuel Mix Disclosure purposes, to certify the proportion of renewable energy within their overall supply mix.

A REGO is regarded as having the attributes necessary to convey the low carbon benefits of renewable energy in the UK and EU. A robust internal accounting process is required in order to demonstrate that no double-counting has taken place.

Figure 1 illustrates the renewable sources used to back Swansea University to renewable electricity supply between April 2017 and March 2018, which is consistent with EDF Energy’s overall Renewable Fuel Mix over this period. Appendix A details the REGOs assigned by EDF Energy for Swansea University.

[Figure 1: EDF Energy Renewable Fuel Mix 2017/18:](#)



**EDF Energy supplied Swansea University with 25,552 Gigawatt Hours (GWh) of renewable (REGO backed) energy during the period 1<sup>st</sup> April 2017 to 31<sup>st</sup> March 2018.**

## EDF Energy product labels

Each year EDF Energy publishes 'product labels' alongside its overall Fuel Mix data, which detail the composition of each energy type it supplies. Table 1 summarises the attributes of its Renewable product against the UK average fuel mix. The carbon intensity, or 'emissions factor', of the product is 0 grams of Carbon Dioxide per kilowatt hour, compared to a national average of 225.

Table 1: EDF Energy product labels versus UK average

Energy type	Coal	Gas	Nuclear	Renewable	Other	CO2 g/kWh
<b>Blue</b>	0.00%	0.00%	100.00%	0.00%	0.00%	0
<b>Renewable</b>	0.00%	0.00%	0.00%	100.00%	0.00%	0
<b>All other (Residual)</b>	12.69%	15.77%	69.89%	1.35%	0.32%	175
<b>UK Average Fuel Mix</b>	7.64%	41.24%	20.01%	29.04%	2.07%	225

## Greenhouse Gas reporting

The Greenhouse Gas Protocol (GHG Protocol) is the most widely used international accounting tool for organisations to understand, quantify, and manage greenhouse gas emissions. It is also the standard used by CDP<sup>1</sup>, the world's largest carbon reporting initiative for businesses. Under GHG Protocol Scope 2 Guidance, companies are advised to report greenhouse gas emissions from purchased energy using "Market-based" (contract-specific) emissions factors alongside the "Location-based" figure (local Grid average).

The comprehensive management processes underpinning the EDF Renewables enable Swansea University to report a Market-based emissions factor of Zero grams CO2 per kilowatt hour for electricity purchased from EDF Energy. These processes are independently assured by PwC.

PwC were also asked to audit whether EDF Energy's low carbon products meet its interpretation of the WRI GHG Protocol Scope 2 Quality Criteria and UK Fuel Mix Disclosure Regulations based on the 2017/18 "Fuel Mix Reporting Year". The findings of PwC's audit are available to download via this [form](#).

Further information on the GHG Protocol is available here: <http://www.ghgprotocol.org/>.

<sup>1</sup> Formerly the Carbon Disclosure Project

## Appendix A: Swansea University electricity supply

Under the TEC framework EDF Energy supplied Swansea University 25,552 Gigawatt Hours (GWh) of electricity backed by REGOs during the period 1 April 2017 to 31 March 2018. The REGOs assigned by EDF Energy for Swansea University are detailed in Table 2. Each REGO represents 1 MWh of renewable electricity and has a unique identifier.

Table 2: REGOs assigned for Swansea University

Technology	Start Date	Start Certificate	End Certificate	No of Cert's	Location
On-Shore Wind	01/04/2017	G03017NWEN0000002493010417300417GEN	G03017NWEN0000003779010417300417GEN	1287	Cumbria
On-Shore Wind	01/05/2017	G02590NWEN0000000000010517310517GEN	G02590NWEN0000001687010517310517GEN	1688	Northumberland
Photovoltaic	01/06/2017	G05389PVEN0000000000010617300617GEN	G05389PVEN0000001616010617300617GEN	1617	Nottinghamshire
On-Shore Wind	01/07/2017	G01825NWEN0000000000010717310717GEN	G01825NWEN0000001961010717310717GEN	1962	Selby
On-Shore Wind	01/08/2017	G02590NWEN0000000000010817310817GEN	G02590NWEN0000002329010817310817GEN	2330	Northumberland
On-Shore Wind	01/09/2017	G01462NWEN0000000000010917300917GEN	G01462NWEN0000001965010917300917GEN	1966	Lancashire
On-Shore Wind	01/10/2017	G01975NWEN00000008298011017311017GEN	G01975NWEN00000010639011017311017GEN	2342	Newcastle upon Tyne
Landfill Gas	01/11/2017	G00071LGEN0000000952011117301117GEN	G00071LGEN0000003284011117301117GEN	2333	Buckinghamshire
On-Shore Wind	01/12/2017	G01520NWEN0000000000011217311217GEN	G01520NWEN0000002136011217311217GEN	2137	Lincolnshire
On-Shore Wind	01/01/2018	G01975NWEN00000003171010118310118GEN	G01975NWEN00000005697010118310118GEN	2527	Newcastle upon Tyne
Photovoltaic	01/02/2018	G06082PVEN0000000000010218280218GEN	G06082PVEN0000002612010218280218GEN	2613	Hampshire
Photovoltaic	01/03/2018	G06082PVEN0000000000010318310318GEN	G06082PVEN0000002749010318310318GEN	2750	Hampshire

Under the TEC framework EDF Energy has ringfenced the above REGOs for Swansea University and they will not be allocated or counted against any other claim other than EDF Energy's overall Fuel Mix Disclosure.

The certificate IDs are provided for information only and do not imply any transfer of right of ownership or recourse to the original generation source. Any information linked to these certificates, aside from the generation technology, is not to be made public or disclosed to any third party.