



RENEWABLE ENERGY REPORT

**REGO backed power sourced
under the TEC framework**

Swansea University

April 2019 – March 2020



Introduction

This report provides an overview of renewable electricity supply for the period April 2019 to March 2020, 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 Carbon Trust.

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.

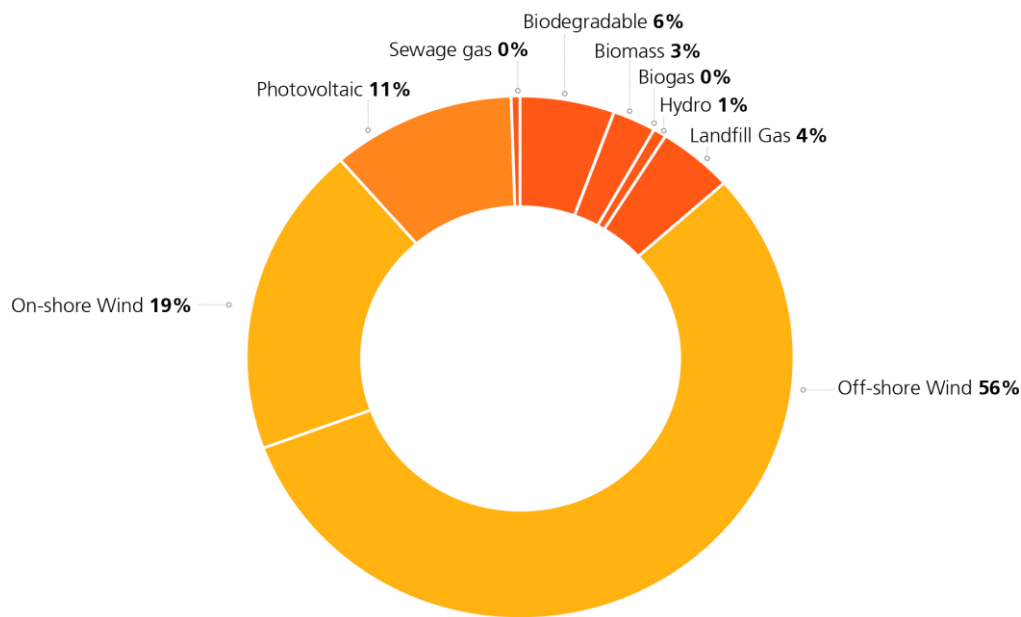
A REGO is regarded as having the attributes necessary to convey the low carbon benefits of renewable energy in the UK and EU. A robust internal accounting process is required in order to demonstrate that no double-counting has taken place.

Under the TEC framework EDF Energy has ring fenced 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.



*100% of the electricity supplied is renewable, backed by certificates of renewable energy guarantees of origin. Emission factor compliant with the GHG Protocol Scope 2 Guidance and to be used for the 'market-based method'.

Figure 1: EDF Energy Renewable Fuel Mix 2019/2020:



EDF Energy supplied Swansea University with 31,207 Megawatt Hours (MWh) of renewable (REGO backed) energy during the period 1st April 2019 to 31st March 2020.

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. OFGEM administer the scheme for generation on behalf of BEIS and are responsible for the annual Fuel Mix Disclosure compliance deadline.

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 198.

Table 1: EDF Energy product labels versus UK average

Energy type	Coal	Gas	Nuclear	Renewable	Other	CO ₂ g/kWh
Zero Carbon Nuclear	0.0%	0.0%	100.0%	0.0%	0.0%	0
Renewable	0.0%	0.0%	0.0%	100.0%	0.0%	0
All other (Residual)	9.1%	24.4%	55.3%	10.9%	0.3%	183
UK Average fuel mix	3.9%	39.4%	16.6%	37.9%	2.2%	198

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 CDP¹, 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 Renewable for Business product enable **Swansea University** to report a Market-based emissions factor of Zero grams CO₂ per kilowatt hour for electricity purchased from EDF Energy.

The Carbon Trust has assured that the electricity supplied for the year ended in 31st March 2020 under the following products – Select Renewable, Clean Renewable and UK Renewable - is 100% covered by Renewable Certificates that have been obtained and retired by EDF, in line with the WRI GHG Protocol Scope 2 Guidance (2015). The findings of Carbon Trust’s assurance are available to download via www.edfenergy.com/carbontrust

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

Appendix A: Swansea University Renewable electricity supply

Under the TEC framework EDF Energy supplied **Swansea University** with 31,207 Megawatt Hours (MWh) of electricity backed by REGOs during the period 1 April 2019 to 31 March 2020. 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	Output Period Start Date	Start Certificate	End Certificate	No of Certificates	Location
Off-shore Wind	01/06/2019	G01013FWEN000000000010619300619GEN	G01013FWEN0000015168010619300619GEN	15169	Barrow
Off-shore Wind	01/11/2019	G01171FWEN0000020314011119301119GEN	G01171FWEN0000036351011119301119GEN	16038	Cumbria

As previously stated Under the TEC framework EDF Energy has ring fenced 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.

¹ Formerly the Carbon Disclosure Project