

Renewable Energy Report

April 2019 - March 2020

Glasgow Caledonian
University



Introduction

This report provides an overview of Glasgow Caledonian University renewable electricity supply for the period April 2019 to March 2020, provided by way of Renewable Energy Guarantee of Origin (REGO) backed power.

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

Renewable for Business

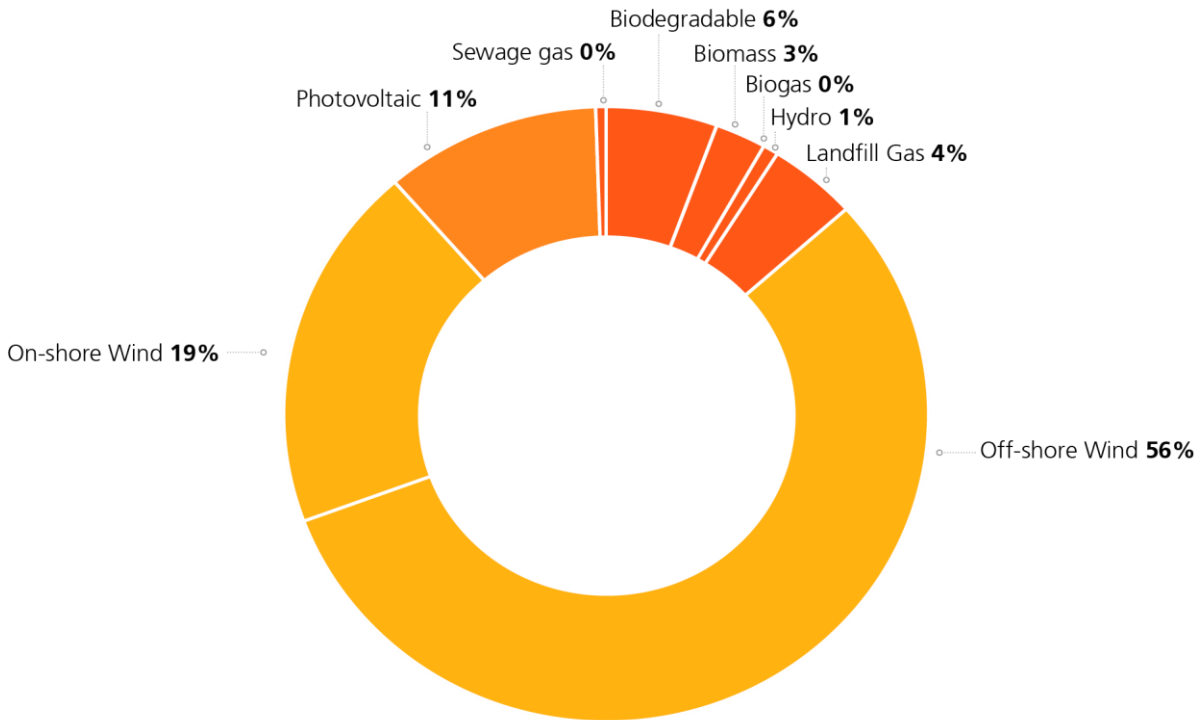
Renewable for Business is one of EDF’s verifiable renewable electricity supply products for I&C customers, which is fully backed by REGOs. The Renewable product, and its adherence to the GHG Protocol ‘Scope 2’ guidance and UK Fuel Mix Disclosure regulations, is governed by strict internal processes. We look forward to working with the Carbon trust, who will be providing auditing and assurance for our REGO allocations for all future periods, with the current 2019/20 audit in progress.

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 renewable electricity supply between April 2019 and March 2020. Appendix A details the REGOs assigned by EDF for Glasgow Caledonian University.

Figure 1: EDF Renewable Fuel Mix 2019/20:



EDF supplied Glasgow Caledonian University with 5,993 Megawatt Hours (MWh) of renewable (REGO backed) energy during the period 1st April 2019 to 31st March 2020.

EDF product labels

Each year EDF 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 198.

Table 1: EDF 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 products enable you to report a Market-based emissions factor of Zero grams CO₂ per kilowatt hour for electricity purchased from EDF.

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

¹ Formerly the Carbon Disclosure Project

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