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Renewables Obligation (RO)

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How to understand ROC identifiers

Renewable Energy Certificates, or ROCs, are electronic certificates issued to operators of accredited generating stations based on the net renewable electricity generated by their station. Each ROC is issued with a specific code along with other information in the Register, known as the ROC identifier. The below guide explains how to understand ROC identifiers. More information about ROCs is provided in chapter 5 of the RO: Guidance for Generators.

Figure 1: An example ROC identifier

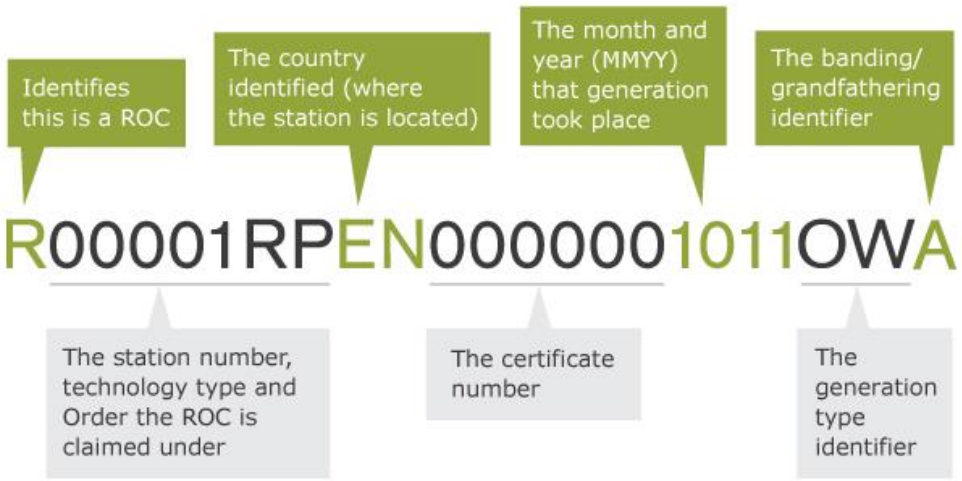

Figure 1 shows a ROC identifier. It shows that this is the first ROC (certificate number 000000) in a sequence for generation that took place in October 2011. The ROC has been issued to offshore wind station '00001' located in England which is claiming under the RO Order. The ROC is issued for offshore wind generation, which is grandfathered.

The following pages set out all the current options for the technology type, country, generation type and banding type identifiers.

The technology type identifier

The table below sets out the technology codes that will identify the type of generating station and under which Order a ROC is issued under:

Technology type	RO Code	ROS Code	NIRO Code
Fuelled	RA	SA	NA
Micro-hydro	RD	SD	ND
Hydro with a DNC of ≤20MW	RE	SE	NE
Hydro with a DNC >20MW	RF	SF	NF
Geothermal	RG	SG	NW
Tidal power (lagoon)	RH	SH	NH
Tidal power (barrage) <1GW	RI	SI	NI
Landfill gas	RJ	SJ	NJ
Geopressure	RM	SM	NM
Off-shore wind	RP	SP	NP
Offshore wind – demonstration turbines	-	DT	-
Offshore wind – floating turbines	-	FT	-
On-shore wind	RQ	SQ	NQ
Sewage gas	RR	SR	NR
Tidal stream	RS	SS	NS
Wave power	RT	ST	NT
Enhanced wave power	-	SV	-
Enhanced tidal stream	-	SO	-
Photovoltaic (PV)	RU	SU	NU
PV with a DNC ≤50kW	RW	SW	NG
fuelled with a DNC ≤50kW	RX	SX	NX
Hydro with a DNC ≤50kW	RY	SY	NY
Wind with a DNC ≤50kW	RZ	SZ	NZ

The country identifier

Below is a table identifying which country the generation station is situated in:

Country	Code
England	EN
Wales	WA
Scotland	SC
Northern Ireland	NI

The generation type identifier

Below is a table identifying which generation type (and band when subject to banding and is not a microgenerator) the ROC has been issued against:

Generation type	Code
Advanced gasification	GA
Advanced pyrolysis	PA
Anaerobic digestion	AD
Building mounted solar PV	BM
Co-firing of biomass	CB
Co-firing of biomass with CHP	CH
Co-firing of energy crops	CE
Co-firing of energy crops with CHP	EH
Co-firing of regular bioliquid	CQ
Co-firing of regular bioliquid with CHP	QC
Dedicated biomass	DB
Dedicated biomass – BL	DQ
Dedicated biomass with CHP	BC
Dedicated biomass with CHP - BL	QD
Dedicated energy crops	DE
Dedicated energy crops with CHP	EC
Electricity generated from landfill gas	LG
Electricity generated from sewage gas	SG
Energy from waste with CHP	WH
Enhanced tidal stream (Scotland only)	TS
Enhanced wave (Scotland only)	WV
Geopressure	GP

Generation type	Code
Geothermal	GT
Ground mounted solar PV	GM
High-range co-firing	HR
High-range co-firing with CHP	HC
Hydro-electric	HE
Landfill gas – closed landfill	CL
Landfill gas – heat recovery	LH
Low range co-firing of relevant energy crop	RE
Low range co-firing of relevant energy crop with CHP	RC
Low-range co-firing	LR
Low-range co-firing with CHP	LC
Mid-range co-firing	MR
Mid-range co-firing with CHP	MC
Offshore wind	OW
Offshore wind – demonstration turbines	DT
Offshore wind – floating turbines	FT
Onshore wind	NW
Other	OT
Solar photovoltaic	PV
Standard gasification	GS
Standard pyrolysis	PS
Station conversion	SC
Station conversion – BL	SQ
Station conversion with CHP	CS
Station conversion with CHP - BL	QS
Tidal impoundment – tidal barrage	TB
Tidal impoundment – tidal lagoon	TL
Tidal-stream	TS
Unit conversion	UC
Unit conversion – BL	UQ
Unit conversion with CHP	CU
Unit conversion with CHP - BL	QU
Wave	WV
Existing certificates issued on data from before April 09	XX

The banding identifier

Below is a table identifying whether the ROC has been issued as banded ROC or is not subject to banding, either as it has not surrendered a statutory grant or is subject to grandfathering. This identifier also allows clarification as to whether a ROC has been produced by a station that is under a NFFO contract and is additional output (AMO) or has been supplied by a station situated in Northern Ireland but supplying England & Wales or Scotland (E/W/S). It also identifies whether a ROC has been issued in respect of a CHP station with TIC <1MW.

	Grandfathered	2009 banding	2010 and 2011 banding	13/14 capacity		14/15 capacity		15/16 capacity		Post-16 capacity	
				CHP Stations < 1MW TIC	other stations	CHP Stations < 1MW TIC	other stations	CHP Stations < 1MW TIC	other stations	CHP Stations < 1MW TIC	other stations
General	A	C	E	M	G	M	V	O	I	Q	K
AMO	B	D	F	N	H	N	W	P	J	Z	L
NI Stations supplying England or Wales	N	P	R	R	R	R	R	R	R	R	R
NI AMO for an NI station supplying England or Wales	O	Q	T	T	T	T	T	T	T	T	T
NI Stations supplying Scotland			S	S	S	S	S	S	S	S	S
NI AMO for an NI station supplying Scotland			U	U	U	U	U	U	U	U	U
Existing certificates issued on date from before April 2009	X										