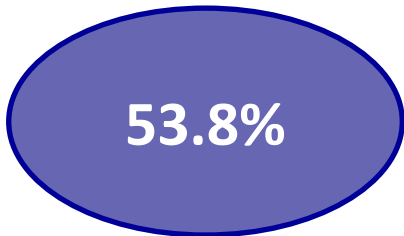


# KEY FACTS...

Provisionally, renewables sourced



...of gross electricity consumption in 2016



POINTS LOWER THAN 2015

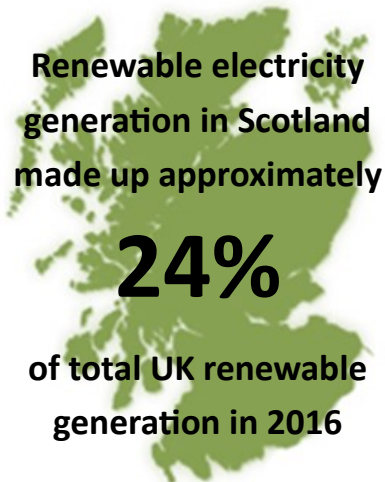


POINTS HIGHER THAN 2006

Renewable electricity generation in Scotland made up approximately

**24%**

of total UK renewable generation in 2016



## Renewable Energy Targets – Summary of Latest Progress

	%	AS AT
OVERALL RENEWABLE ENERGY TARGET 30% OF TOTAL SCOTTISH ENERGY CONSUMPTION FROM RENEWABLES BY 2020	15.2%	2014
RENEWABLE ELECTRICITY TARGET 100% OF GROSS ELECTRICITY CONSUMPTION FROM RENEWABLES BY 2020	53.8% <i>prov.</i>	2016
RENEWABLE HEAT TARGET 11% OF NON-ELECTRICAL HEAT DEMAND FROM RENEWABLES BY 2020	5.3% <i>prov.</i>	2015
RENEWABLE TRANSPORT TARGET 10% OF TRANSPORT PETROL AND DIESEL CONSUMPTION FROM BIOFUELS BY 2020	3.1%	2016
ENERGY CONSUMPTION TARGET 12% REDUCTION IN TOTAL FINAL ENERGY CONSUMPTION BY 2020	-15.2%	2014

In 2016, compared to 2015, renewable electricity generation decreased by...



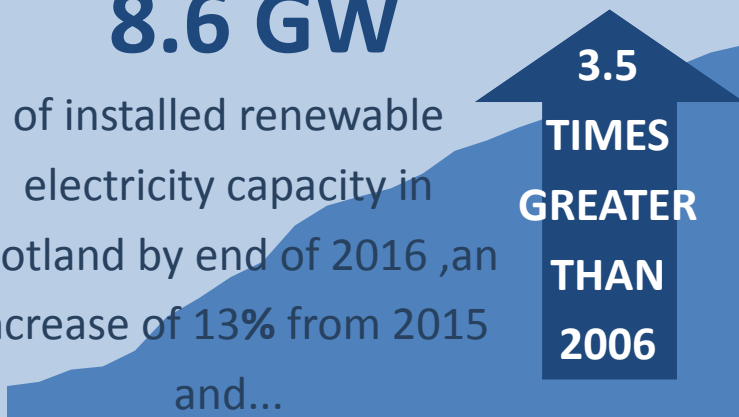
... but is nearly **3 times greater** than in 2006



**8.6 GW**

of installed renewable electricity capacity in Scotland by end of 2016, an increase of 13% from 2015 and...

**3.5 TIMES GREATER THAN 2006**



## Generation in 2016...



**WIND**



**10%**

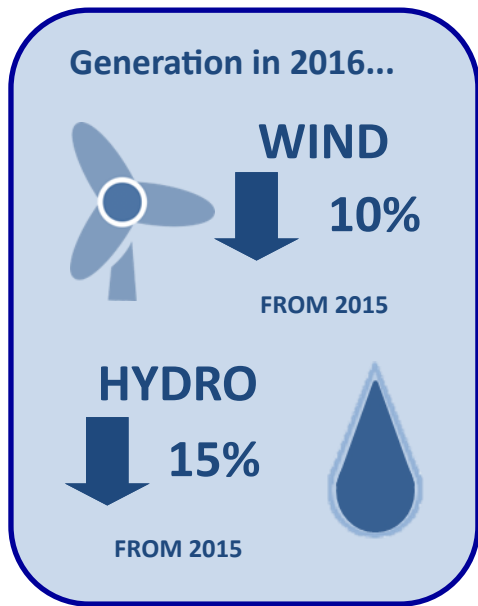
FROM 2015



**HYDRO**

**15%**

FROM 2015



**Table 1: Renewable electricity generated (GWh), Scotland, 2000-2016**

Year	Wind <sup>1</sup>	Hydro	Wave/ Tidal	Solar PV	Landfill	Sewage	Other Bio- fuels	TOTAL	Gross Consumption	Renewables as a % of gross consumption
2000	216.7	4,665.3	-	-	68.5	-	21.1	4,971.6	40,801	12.2%
2001	245.2	3,737.5	-	-	109.3	-	110.4	4,202.4	40,446	10.4%
2002	406.1	4,455.4	-	-	157.0	-	80.1	5,098.7	41,619	12.3%
2003	448.9	2,902.0	0.0	-	228.0	-	145.5	3,724.4	41,238	9.0%
2004	848.4	4,474.8	0.0	-	339.2	-	169.8	5,832.2	41,364	14.1%
2005	1,280.9	4,612.2	0.0	-	395.4	-	197.2	6,485.7	41,923	15.5%
2006	2,022.9	4,224.9	0.0	-	424.0	-	283.7	6,955.6	41,309	16.8%
2007	2,644.0	4,692.9	0.0	-	486.5	-	179.8	8,003.2	40,718	19.7%
2008	3,361.5	4,700.7	0.0	0.0	494.0	20.3	479.0	9,055.6	41,049	22.1%
2009	4,555.1	4,856.1	0.1	0.0	526.4	25.8	616.1	10,579.6	38,852	27.2%
2010	4,921.9	3,255.5	0.0	0.8	529.1	31.9	725.5	9,464.8	39,571	23.9%
2011	7,099.5	5,319.3	0.4	8.3	509.4	35.3	714.0	13,686.3	37,804	36.2%
2012	8,294.3	4,838.3	0.5	67.2	547.1	35.4	902.0	14,684.9	37,641	39.0%
2013	11,138.7	4,365.3	2.5	92.0	562.8	30.2	767.1	16,958.6	38,148	44.5%
2014	11,679.5	5,458.4	2.1	136.2	533.5	28.2	1,174.2	19,012.2	38,131	49.9%
2015	13,833.5	5,757.1	2.0	187.4	503.4	26.2	1,331.4	21,627.4	36,410	59.4%
2016	<b>12,454.3</b>	<b>4,908.8</b>	<b>0.0</b>	<b>273.7</b>	<b>481.6</b>	<b>31.3</b>	<b>1439.2</b>	<b>19,589.0</b>	-	<b>53.8%<sup>P</sup></b>

**SUMMARY OF KEY RENEWABLE ELECTRICITY GENERATION FIGURES FOR SCOTLAND...**

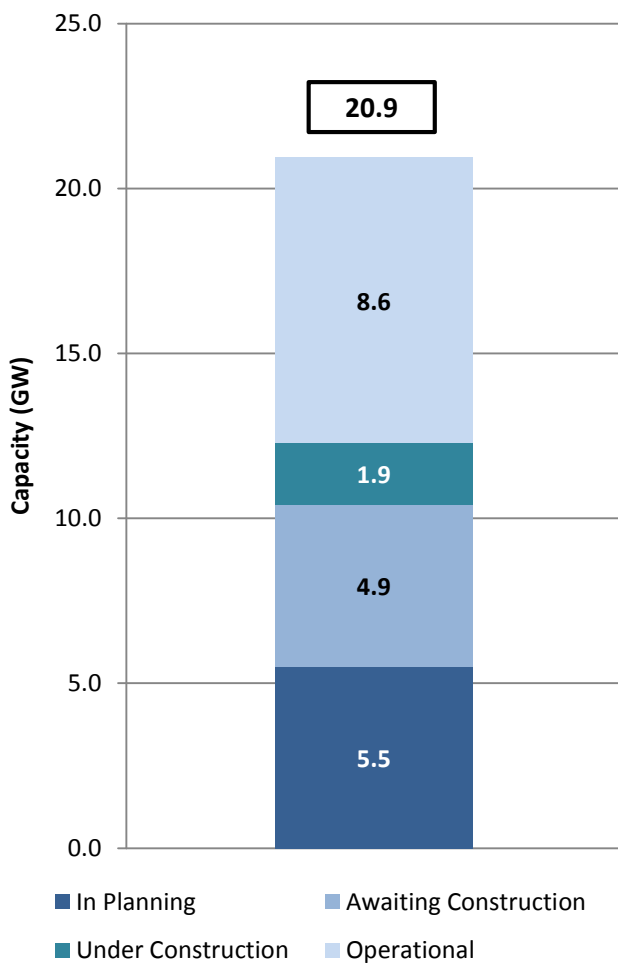
**Provisional Annual figures for 2016:**

- Renewable electricity generation in Scotland was 19,589 GWh, down 9% from 21,627 GWh in 2015 (previous record year for renewables).
- **53.8%** of Scotland's electricity consumption came from renewables in 2016 down 5.6 percentage points from 59.4% in 2015. However, this remains above the 2015 interim target of 50%.
- Wind generation in 2016 was 12,454 GWh, down 10% on 2015 (previous record year for wind) due to a lower load factor. However, this is still over 6 times the level of wind generation in 2006.
- Hydro generation in 2016 was 4,909 GWh down 15% on 2015 (previous record year for hydro).
- At the end of 2016, there was 8,642 MW of installed renewables electricity capacity in Scotland, an **increase of 13%** (967 MW) from the end of 2015.
- Scottish renewable generation made up **approximately 24% of total UK renewable generation** in 2016 (previously 26% in 2015).

**Q4 2016 Estimates:**

- Renewable generation in Scotland was 5,409 GWh in Q4 2016. This is a decrease **of 13%** (835 GWh) from Q4 2015.

**Figure 1: Renewable capacity in Scotland by planning stage, December 2016**



### RENEWABLE ELECTRICITY PLANNING DATABASE

More information on the methodology behind the renewable electricity planning database is available in the data extracts section on our energy statistics webpage:

<http://www.gov.scot/Topics/Statistics/Browse/Business/Energy/planningdata/planningextracts>

and also on BEIS's website:

<https://www.gov.uk/government/statistics/renewable-energy-planning-database-monthly-extract>

### Renewable planning statistics for Scotland

Data as at December 2016 show that Scotland had **8.6 GW** of installed renewable electricity generation capacity, with an additional **6.8 GW** of capacity either under construction or consented, the majority of which are wind generation projects.

Taking into account pipeline projects, the total renewable capacity either in operation or in planning totals **20.9 GW** — over double the level currently deployed.

### DATA SOURCES

The statistics summarised in this report are primarily sourced from the Department for Business, Energy and Industrial Strategy (BEIS). In particular:

BEIS's Quarterly Energy Trends reports:

<https://www.gov.uk/government/collections/energy-trends>

BEIS's quarterly renewable electricity generation tables (ET 6.1):

[https://www.gov.uk/government/uploads/system/uploads/attachment\\_data/file/579528/ET\\_6.1.xls](https://www.gov.uk/government/uploads/system/uploads/attachment_data/file/579528/ET_6.1.xls)

BEIS's sub-national energy consumption tables:

<https://www.gov.uk/government/collections/sub-national-electricity-consumption-data>

Renewable Energy Planning Data:

<https://www.gov.uk/government/collections/renewable-energy-planning-data>