

Wind Power in Falkirk: Teacher's Guide

Full Image Credits

Pg. 7

James Watt portrait and his coal powered steam engine

Credit: Images sourced from Falkirk Archives: "Watt's Experiment"

<https://collections.falkirk.gov.uk/objects/47770/watts-experiment> and 'James Watt'
<https://collections.falkirk.gov.uk/objects/47771/james-watt> 1878, Maker: Unknown, From Robert H Thurston "A History of the Growth of the Steam Engine" p 80 and p 89. 1972 reprint. First published 1878. Accessed October 2021

Pylons installed in Scotland, 1928

Credit: Image sourced from scienceandindustrymuseum.org.uk. From a 2018 article authored by Jan Hicks, Archives Manager and the Science and industry Museum, accessed here: <https://blog.scienceandindustrymuseum.org.uk/pylons-controversial-giants-in-the-landscape/>, accessed October 2021

[FIRST PRINT ONLY]

New Falkirk area wind turbine to power more than 700 homes each year

Credit: Photographer: Michael Gillen, Falkirk Herald ©. Image sourced from Falkirk Herald article, <https://www.falkirkherald.co.uk/news/environment/new-falkirk-area-wind-turbine-to-power-more-than-700-homes-each-year-3332534>, accessed October 2021. Original image caption: Michael Matheson, Falkirk West MSP, switches on the Bespoke Wind Turbine in Lionthorn. From left: David Bennet, of Bespoke Community Development Company; Guy Wedderburn, Callendar Estate manager; Gavin Catto, of Green Cat Renewables; Michael Matheson, Cabinet Secretary for Net Zero, Energy and Transport; Jonathan Hagger, Emergya Wind Technologies; Andrew Lyle, Locogen MD; and Chris Morris, Local Energy Scotland manager. Picture: Michael Gillen.

Pg. 9

[FIRST PRINT ONLY]

The Beatrice Offshore Wind Farm in Wick, Scotland

Credit: Photographer unknown. © Dundee Press Agency. Image sourced from <https://www.scottishconstructionnow.com/article/fourth-largest-offshore-wind-farm-in-the-world-officially-opened-in-wick>, accessed October 2021

[FIRST PRINT ONLY]

Credit: Photographer: © Øyvind Gravås / Woldcam Image sourced from

<https://www.scotsman.com/news/environment/bids-flood-in-for-offshore-wind-farms-in-scottish-waters-3314069>, accessed October 2021

Pg. 10

Animation: How a Wind Turbine Works. Author: Unknown, US Department of Energy.
Animation sourced from: <https://www.energy.gov/eere/wind/animation-how-wind-turbine-works>, accessed October 2021

Interactive Map showing Wind Farms in Falkirk. Author: The Wind Power: Wind Energy Market Intelligence. Map sourced from https://www.thewindpower.net/zones_en_8_663.php, accessed October 2021

Pg. 11

Burnhead Moss wind farm at Avonbridge.
Credit: Photographer: Unknown © EDF Renewables. Image sourced from <https://www.edf-re.uk/our-sites/burnhead-moss>, accessed October 2021.

Turbines at Todhill Farm from above. Credit: Photographer: © Andy Horne via Facebook.
Image sourced from <https://www.facebook.com/photo.php?fbid=10221167073782403&set=p.10221167073782403&type=3>, accessed October 2021.

Pg. 12

Carron Iron Goods. Photograph, Early 20th century. Credit: Falkirk Archives. Maker: Unknown. Image sourced from <https://collections.falkirk.gov.uk/objects/7594/carron-iron-goods>, accessed October 2021.

Pg. 13

Two Falkirk women by a coal-fuelled fire in their home, 1907 (original title: Two Edwardian women by the fireside) Credit: Photographer: Thomas Easton. Image sourced from Falkirk Archives <https://collections.falkirk.gov.uk/objects/16563/two-edwardian-women-by-the-fireside>, accessed October 2021.

Coal-fired power station, Etna Road, Falkirk, 1920s.
Credit: Falkirk Herald. Image sourced from Falkirk Archives <https://collections.falkirk.gov.uk/objects/134117/coal-fired-power-station-etna-road-falkirk>, accessed October 2021.

Pg. 14

Dunipace Pylons, 1984. Credit: Falkirk District Council: Planning & Environment. Image sourced from Falkirk Archives <https://collections.falkirk.gov.uk/objects/156018/dunipace-pylons-from-a872>, accessed October 2021.

Graph to show Electricity Generation in Scotland by Fuel

Credit: <https://scotland.shinyapps.io/Energy/> via <https://www.scottishrenewables.com/our-industry/statistics>, accessed October 2021

Pg. 17

Poster: Different Types of Wind Turbine. Credit: © Practical Action. Resource sourced from <https://www.sustainablelearning.com/resource/wind-power-challenge>, accessed October 2021

Pg. 19

Diagram of Possible Wind Turbine Design. Credit: © Practical Action
Credit: Authored by Practical Action ©. Resource sourced from <https://www.sustainablelearning.com/resource/wind-power-challenge>, accessed October 2021

Pg. 26

Lorna Bennet, Mechanical Engineer at ORE Catapult. Credit: Photographer: © ORE Catapult. Image supplied by Lorna Bennet via email, October 2021.

Pg. 27

Rural area in Falkirk (Hallglen). Credit: Falkirk District Council: Planning & Environment. Image sourced from Falkirk Archives <https://collections.falkirk.gov.uk/objects/46564/hallglen-falkirk>, accessed October 2021.

Google Maps screenshot showing rural area South and South East of Falkirk High Station.

Credit: Google Maps. Sourced from <https://www.google.com/maps/place/Hallglen,+Falkirk/@55.9878707,-3.7922299,14z/data=!4m5!3m4!1s0x48887a1f29c29559:0x1c891d6097bd7e9a!8m2!3d55.9863785!4d-3.7801313>, accessed October 2021.

Wind Power in Falkirk: Whiteboard-friendly PDF

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Pg. 15

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Pg. 16

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Pg. 22

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Wind Power in Falkirk: Background Info Full Image Credits

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Pg. 4

Map of North East Stirlingshire Coalfields, 1944. Credit: © Scottish Mining Website Image
sourced from <http://www.scottishmining.co.uk/Indexes/STI-1944.jpg> Accessed October 2021

Pg. 5

Female mine workers at Redding coillery c.1890. Credit: Unknown Photographer via Falkirk Archives. Image sourced from <https://collections.falkirk.gov.uk/objects/20768/female-mine-workers-at-redding-pit> Accessed October 2021

Pg. 6

Bridgeness Colliery Smithy, c.1870-1900. Credit: Unknown Photographer via Falkirk Archives. Image sourced from <https://collections.falkirk.gov.uk/objects/20625/bridgeness-colliery-smithy> Accessed October 2021

Coillery Equipment (Mid 20th Century) Credit: © Falkirk Herald via Falkirk Archive. Image sourced from <https://collections.falkirk.gov.uk/objects/15485/colliery-equipment> Accessed October 2021

Pg. 7

Foggermountain open cast coal mine, Avonbridge, 1978. Credit: Photographer: Thomas McInnes via Falkirk Archives. Image sourced from <https://collections.falkirk.gov.uk/objects/54225/foggermountain-open-cast-coal-mine-avonbridge> Accessed October 2021.