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RENEWABLE ELECTRICITY IN NORTHERN IRELAND

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RENEWABLE ELECTRICITY IN NORTHERN IRELAND

Provide insights into the major trends and changes in use of renewable electricity in Northern Ireland and across the Island of Ireland, and the impact this has had the electricity market. You should support your findings/insights using visualisations and relevant datasets, and your project should explore and attempt to explain both positive and negative views..

SUGGESTED POINTS TO VISIT MAY BE (BUT CERTAINLY NOT LIMITED TO):

- What renewable has seen the largest growth in the industry? What implications may this have for consumers?
- Have there been any major trends in NI electricity market over the past decade?
- How does the Northern Ireland use of renewable electricity differ from the Republic of Ireland & Britain, and other countries? Are there any reasons for these differences?
- What can ESB/NIE Networks do/are doing to promote the use of renewable electricity across the Island of Ireland?
- How can the use of “Smart Metering” lead to more sustainable electricity usage?
- Does Northern Ireland import any of its electricity needs?
- In what sectors/areas have seen a major growth in renewable electricity? What does this mean?
- Is the Island of Ireland on track to reaching Net Zero, or better?

■ EXAMPLE DATA SOURCES (INCLUDING BUT NOT LIMITED TO):



Current breakdown of renewables in NI

<https://www.economy-ni.gov.uk/publications/northern-ireland-renewable-electricity-data-tables>



Electricity consumption and renewable generation in NI (for the year ending 2022)

<https://www.economy-ni.gov.uk/sites/default/files/publications/economy/issue-25-electricity-consumption-and-renewable-generation-in-northern-ireland-october-2021-to-september-2022.pdf>



The future of renewables in NI

<https://niopa.qub.ac.uk/bitstream/NIOPA/13391/1/Future-renewables-Northern-Ireland.pdf>



The current state of electricity and renewables in NI

<https://www.economy-ni.gov.uk/sites/default/files/publications/economy/Energy-in-Northern-Ireland-2022.pdf>



ESB's environmental performance report including methods used to increase renewables usage

https://www.esbnetworks.ie/docs/default-source/publications/environmental-performance-report-2021_final_website-version.pdf?sfvrsn=aaf3a230_9



NI overall electricity consumption trends 2009-2021

<https://www.data.gov.uk/dataset/6e7e309e-d2b5-400d-92b7-dd520712aee7/sub-national-electricity-consumption-in-northern-ireland>



NI's energy strategy 'Path to net zero'

<https://www.economy-ni.gov.uk/articles/northern-ireland-energy-strategy-path-net-zero-energy>



The impact of Smart Meters on sustainability seen in a UN endorsed trial in Australia

<https://unfccc.int/climate-action/momentum-for-change/activity-database/momentum-for-change-smart-metering-for-electricity-distribution-automation-and-home-energy-management>



ROI energy generation in 2022 through the lens of renewables and sustainability

<https://www.seai.ie/publications/Energy-in-Ireland-2022.pdf>



Energy trade and imports within the British Isles 2014-2017 & 2017-2021

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/770768/Regional_Electricity_Generation_and_Supply.pdf



https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/1126111/Regional_electricity_generation_and_supply_2017-21.pdf