

# An energy efficient council in a low carbon region

Councillor Archie Dryburgh

2 October 2018

Hotel Colessio Stirling



***‘Neither a wise man nor a brave man lies down  
on the tracks of history to wait for the train of  
the future to run over him.’***

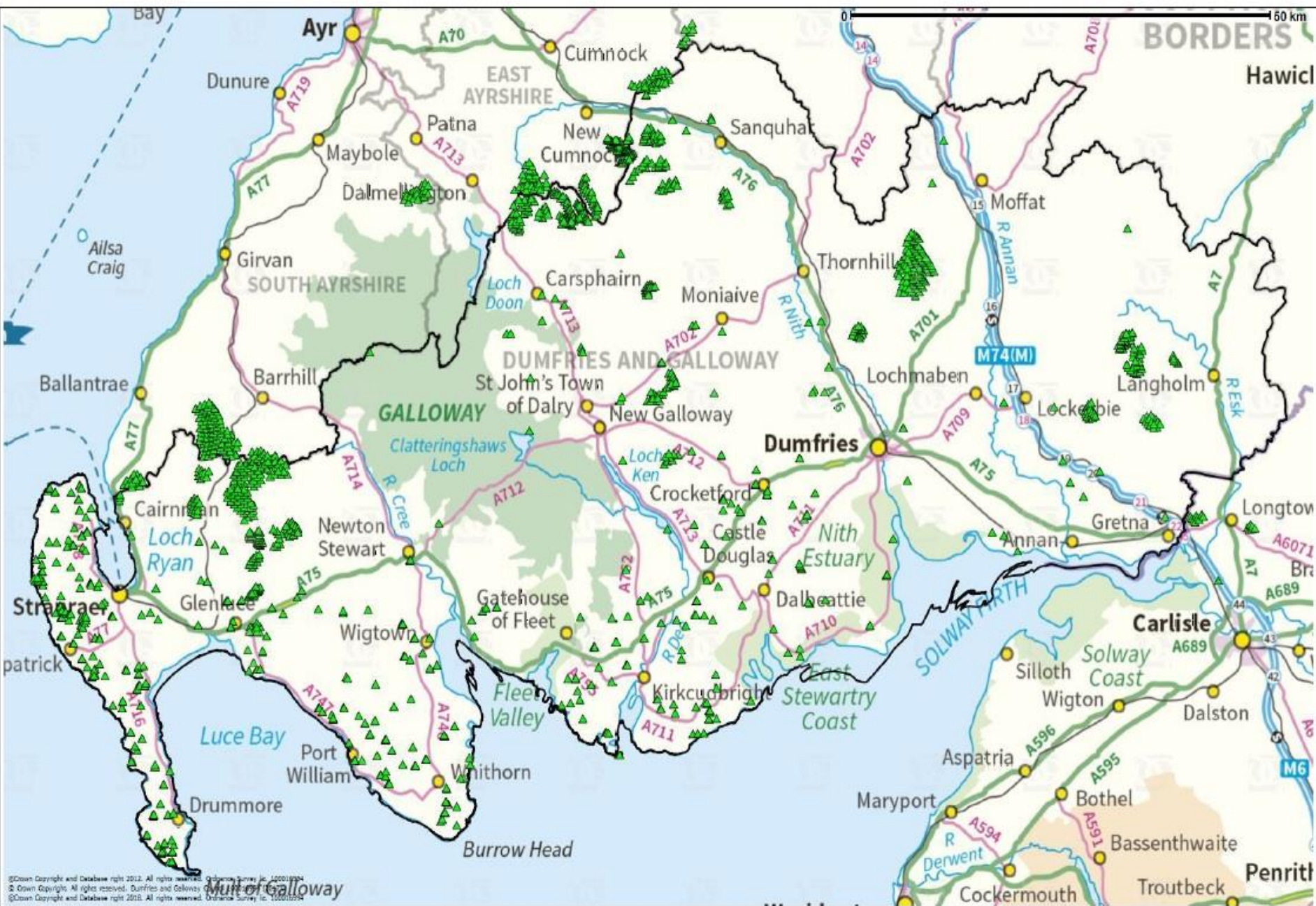
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**- Dwight David Eisenhower**

# Dumfries and Galloway Region

- 6,427 sq km- 8.2% of the land area in Scotland
- 4,200km of roads- 3<sup>rd</sup> largest Roads Authority
- Large Council Fleet
- 3 major train lines- West Coast line (Lockerbie), Glasgow to Stranraer, Glasgow- Carlisle- Newcastle
- 7 Rail stations, Stranraer, Lockerbie, Kirkcubrecht, Sanquhar, Dumfries, Annan, Gretna
- Ferries from Ireland to Cairnryan and beyond
- Significant coastline
- 150,000 people, 47,000 Households, 79 communities
- 1500 Council Buildings across the region





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Wind Turbines - Approved



## Opportunity to do things differently

- **‘Think Global – Act Local’ – Patrick Geddes**
- **Local solutions, local communities, resilience**
- **Stevens Croft example**
- **Lockerbie**
- **Heat and Power**
- **Wood chips from local business**



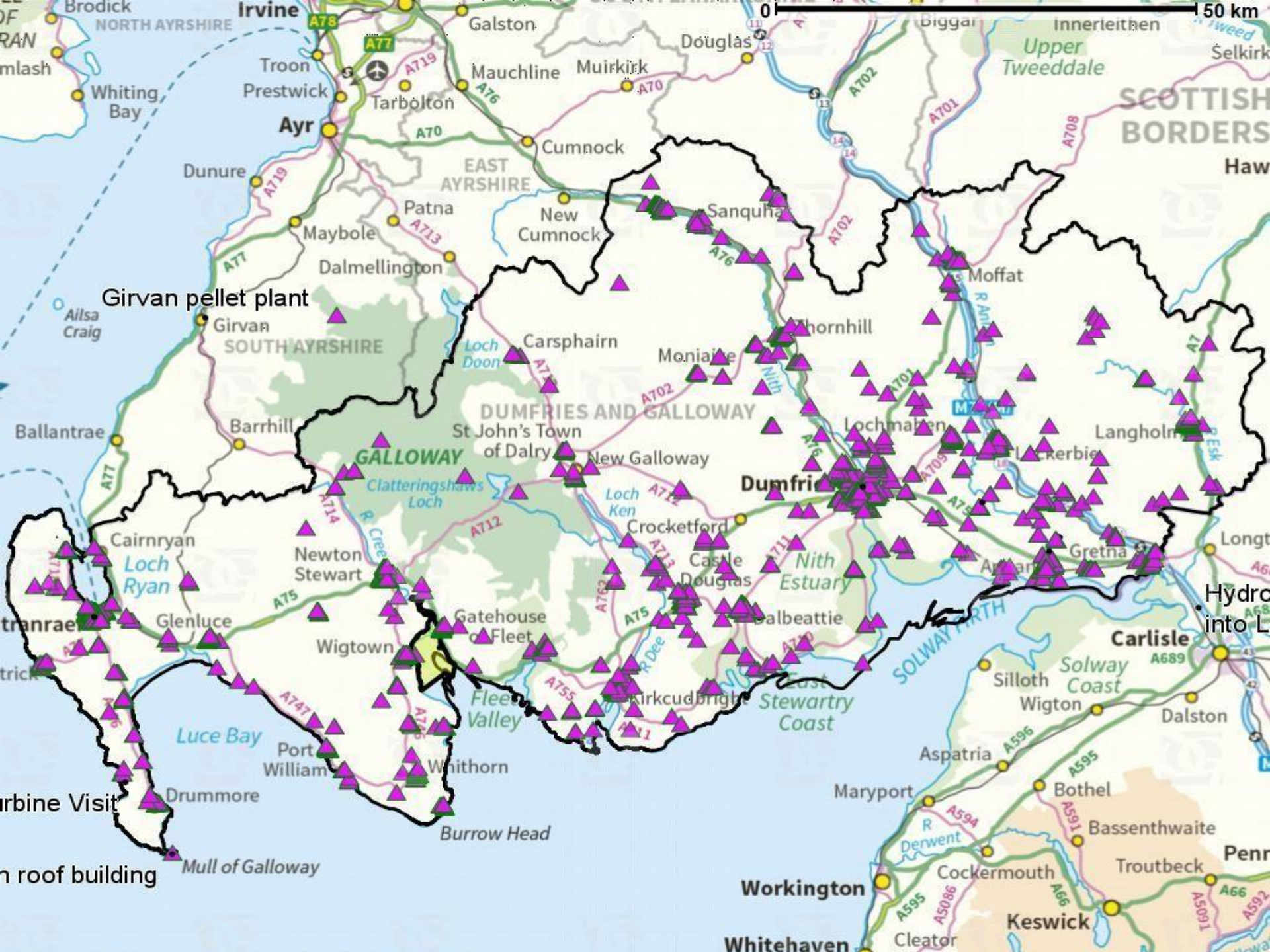
# Council Priorities

- **Building our Economy**
  - Well skilled people
  - Invest in key infrastructure- low carbon street lighting
  - Create a zero carbon region
  - Provide an attractive location to do business
- **Provide the Best start of life for our children**
  - Ensure our children have access to quality learning in 21<sup>st</sup> century facilities
- **Protect our most vulnerable people**
  - Combat Fuel poverty
- **Be an inclusive Council**



## Dumfries and Galloway Energy Efficiency

- Increased onsite production of power
- Desire to use local energy sources
- Need to ensure resilient local supply chains
- Focus on demonstrating proven low carbon technology – whilst supporting innovation as an economic opportunity
- Embedding a low carbon approach in logistics- move to a lower carbon fleet



Girvan pellet plant

tranrae

urbine Visit

n roof building

Mull of Galloway

Hydro into L



## Council Use

Year	Electricity (kWh)	On-site generated electricity (kWh)	Gas (kWh)	Calculated emissions (tCO2)
2014/2015	37,210,886	1,464,598	40,127,603	27,997
2017/2018	33,548,036	1,511,952	36,169,512	19,997
reduced consumption	3,662,850		3,958,091	8,000
% reduced consumption	10%		10%	29%

## Dumfries and Galloway Energy Opportunity

- **1.6GW installed capacity- Transmission (0.6MW)**
- **90 MW of distributed generation**
- **An additional 200 MW of generation- aim to use an Active Management Network**
- **Planned reinforcement**
- **Potential scale projects**
  - • **Glenmuckloch Wind Farm – an 8 turbine 25.6 megawatt (MW) wind farm**
  - **Glenmuckloch Pumped Hydro Storage 400MW**
  - • **North Lowther Energy Initiative (NLEI) – a proposed 35 turbine wind farm with an installed capacity of 147MW**
  - **Chapelcross**
  - **Pipeline Projects**

## Opportunity to do things differently

- **Demonstrate Low Carbon Leadership, Decarbonisation and real Community Benefits**
- **Energy as a form of investment**
- **Chapelcross opportunity:**
- **Waste into community value**





***'If you always do what you've always done  
You will always get what you've always got'  
- Henry Ford***