

## Using Data to Drive Climate and Energy Improvement webinar





# Agenda

## 1. Introduction

James Jefferson, Principal Advisor – APSE Energy

## 2. Overview of PN process and outputs for climate change module

Debbie Johns, Director – APSE performance networks

## 3. Case studies:

a. East Renfrewshire Council – Isabelle Hopkins, Climate Change Data Officer

b. South Cambridgeshire District Council - Grace Vaudin, Climate Strategy Officer

## 4. Q & A



## About the service

- The largest public sector benchmarking service in the UK
- Used by over 170 authorities
- 28<sup>th</sup> year of data collection
- 19 service areas (including 4 inspection apps)
- Developed and reviewed by practitioners
- Range of cost, quality, productivity and outcome measures
- Like-for-like comparisons through profiling
- Independently validated
- Flexibility in comparisons

Building cleaning

Building maintenance

Cemetery and crematorium services

Catering services

**Climate change**

Core highways

Environmental health

Parks, open spaces and horticultural services

Refuse collection

Roads, highways and winter maintenance

Sports and leisure facility management

Street cleansing

Street lighting

Trading standards

Transport operations and vehicle maintenance

CLAMS (Cleaning Audit Management System)

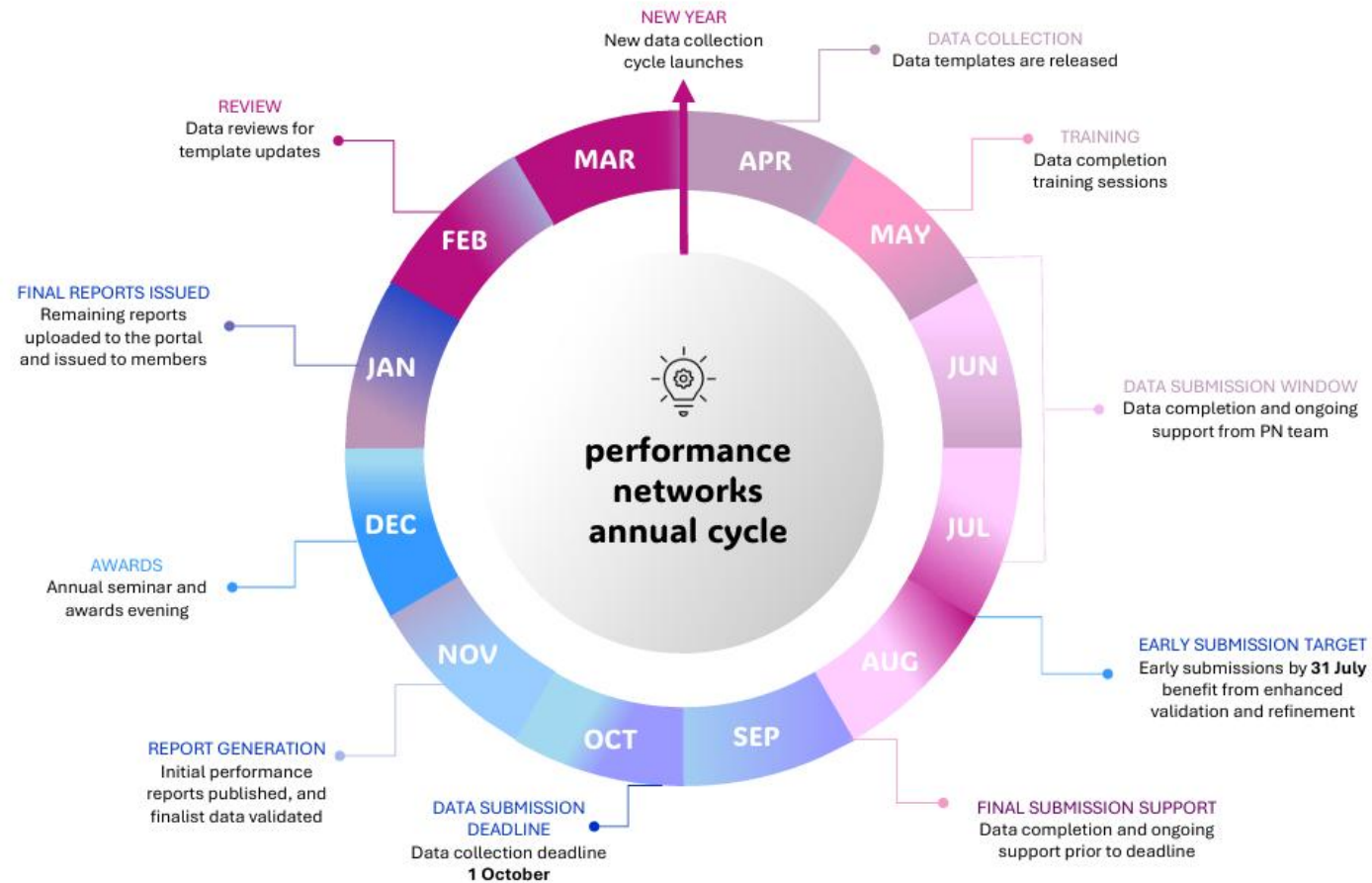
LAMS (Land Audit Management System)

MIST (Memorial Inspection Safety Tool)

PIMS (Play Inspection Management System)



# Performance Networks Membership Cycle

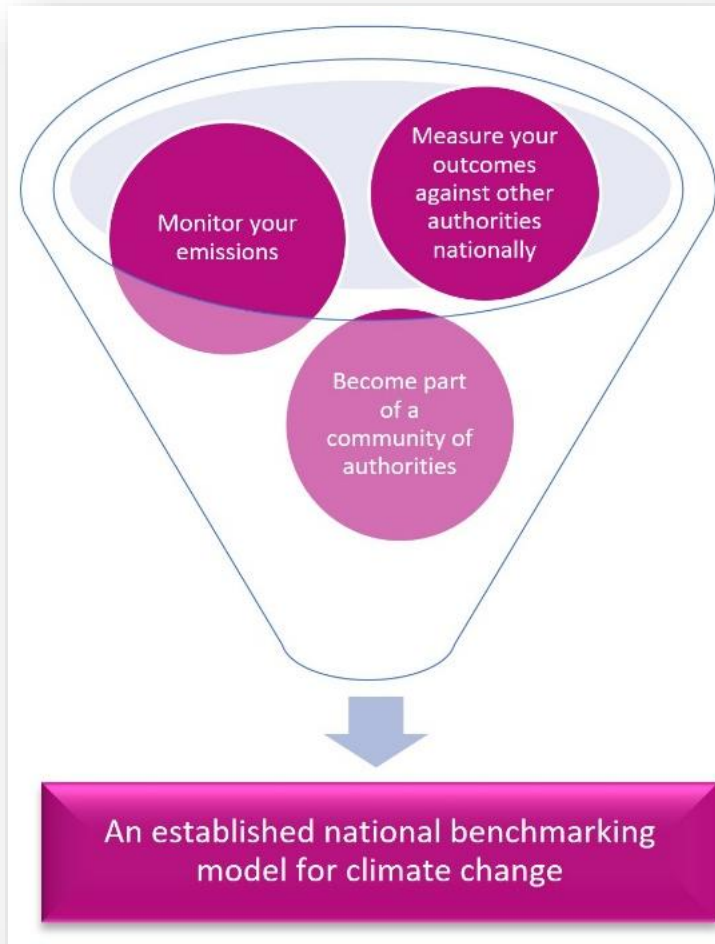


**apse**

**performance networks**

## Climate Change report





- Climate emergency
- Carbon budget
- Emissions
- Buildings
- Energy efficiency (in whole building stock)
- Vehicles
- Energy usage
- Renewable energy generated
- Energy purchased
- Climate adaptation
- Ecological emergency
- Renewable generation
- Ecological/ carbon sequestration
- Carbon Offsetting
- Water
- Single use plastics
- Climate awareness and education

# Filters

Authority hectarage



Authority population



Coastal percentage



Number of Leisure Centres



Net zero target year

|                                   |                                   |                                   |                                           |
|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------------------------|
| <input type="text" value="2030"/> | <input type="text" value="2040"/> | <input type="text" value="2045"/> | <input type="text" value="Not Answered"/> |
|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------------------------|

Authority type

|                                               |                                                   |
|-----------------------------------------------|---------------------------------------------------|
| <input type="text" value="Borough Council"/>  | <input type="text" value="Metropolitan Borough"/> |
| <input type="text" value="District Council"/> | <input type="text" value="Unitary Council"/>      |

What is the net zero target date or carbon neutral target date for the whole council area?

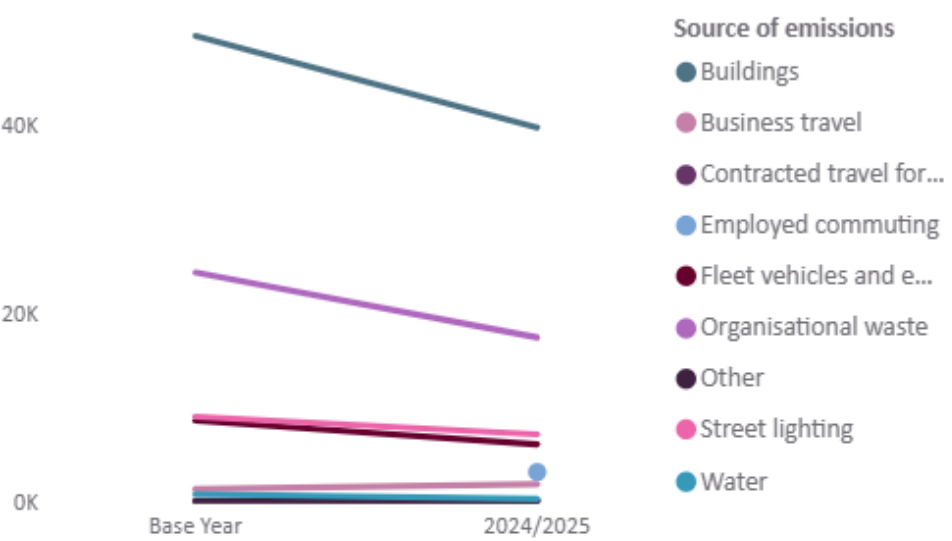
|                                   |                                   |                                   |                                           |
|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------------------------|
| <input type="text" value="2041"/> | <input type="text" value="2045"/> | <input type="text" value="2050"/> | <input type="text" value="Not Answered"/> |
|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------------------------|

# Overall council emissions

PIN selection

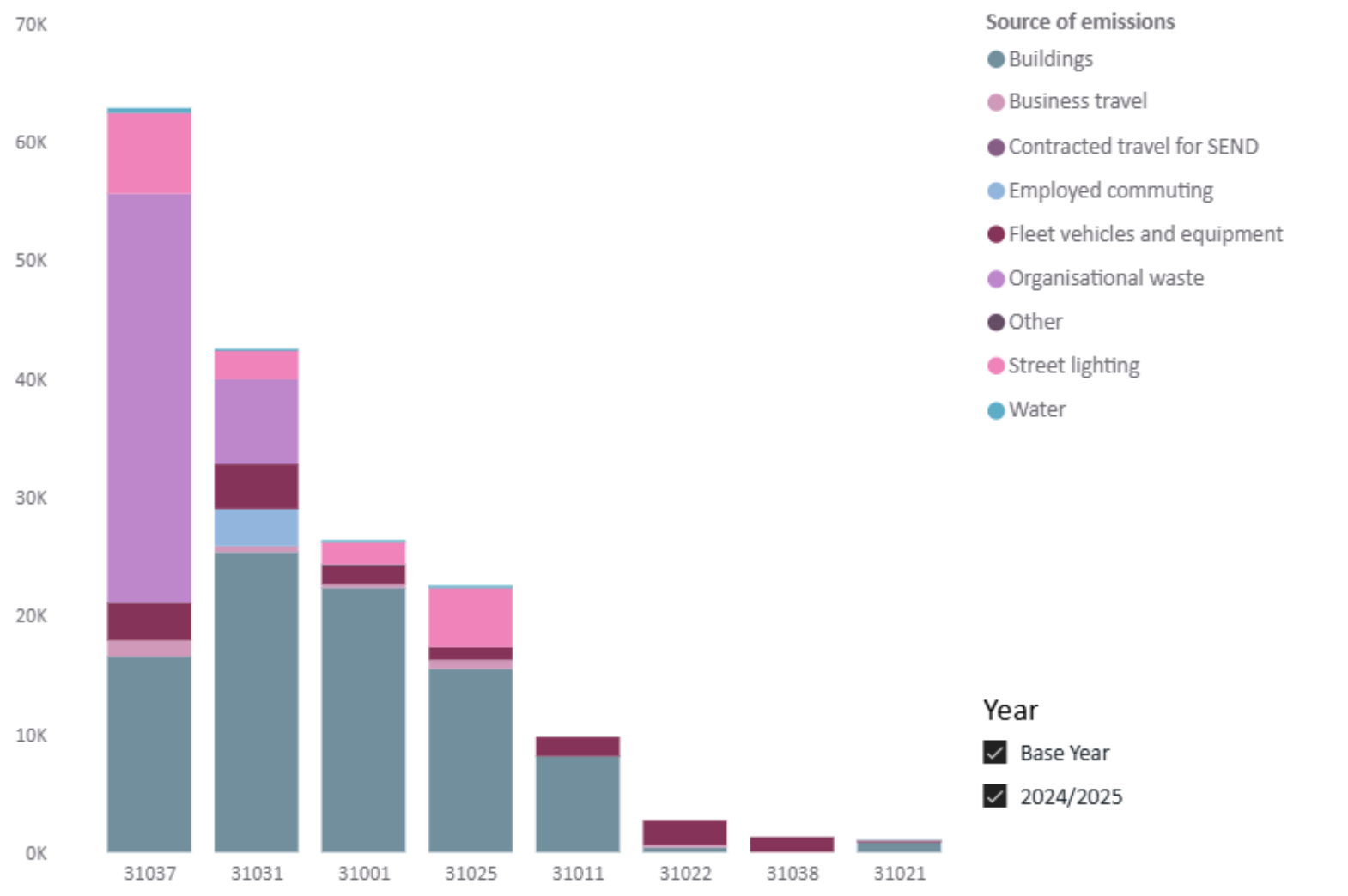
All

Total emissions by Year and Source of emissions (tonnes CO<sub>2</sub>e)



| Source of emissions          | Base Year | 2024/2025 |
|------------------------------|-----------|-----------|
| Buildings                    | 49,318    | 39,618    |
| Business travel              | 1,322     | 1,845     |
| Contracted travel for SEND   | 0         | 0         |
| Employed commuting           |           | 3,128     |
| Fleet vehicles and equipment | 8,559     | 6,056     |
| Organisational waste         | 24,253    | 17,385    |
| Other                        | 92        | 80        |
| Street lighting              | 8,979     | 7,135     |
| Water                        | 767       | 289       |
| Total                        | 93,290    | 75,536    |

Total emissions by source (tonnes CO<sub>2</sub>e)



# Council Buildings

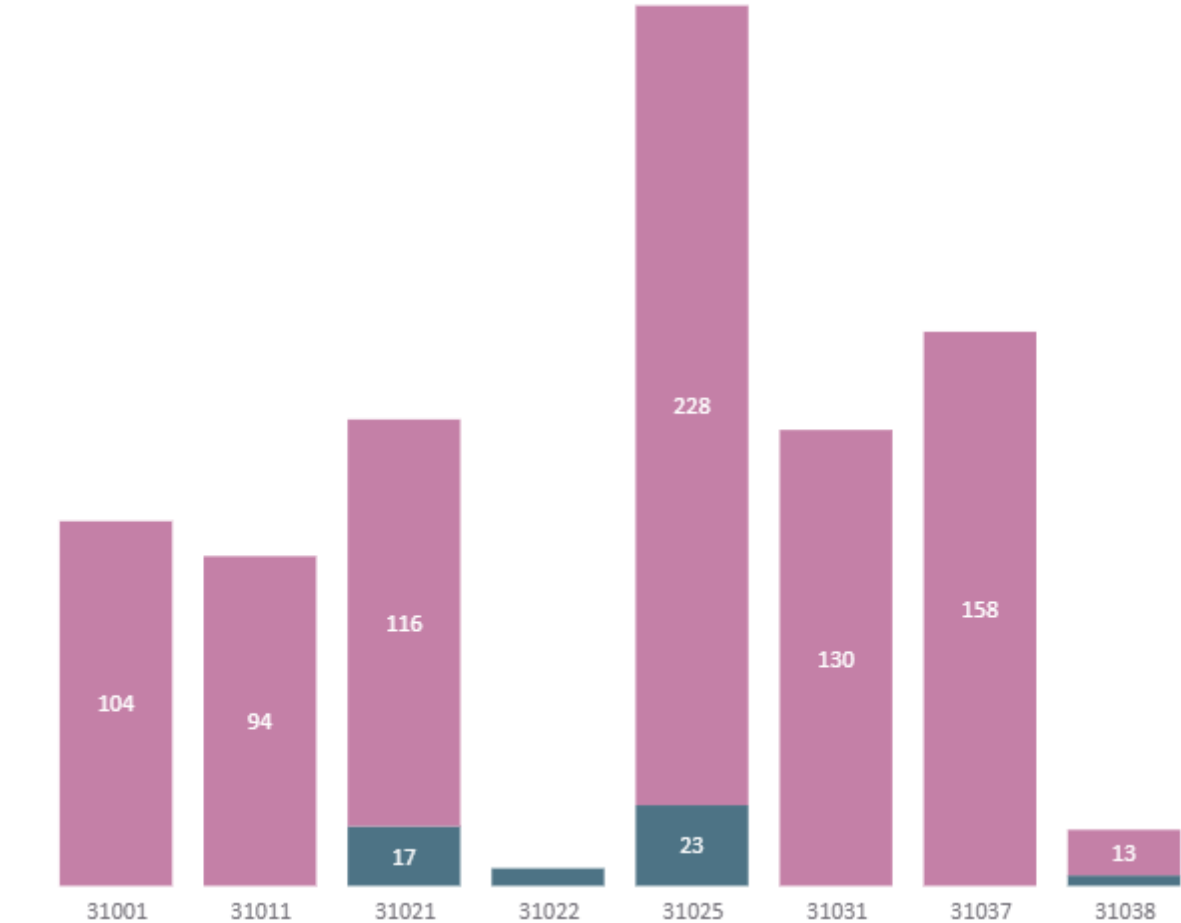
PIN selection

All

| PIN   | Council owned non-domestic buildings | Council owned non-domestic buildings with EPC | Council owned non-domestic buildings with EPC rating C or above | Council owned non-domestic buildings without EPC | Council owned non-domestic buildings with a Display Energy Certificate (DEC) | Council owned non-domestic buildings without a DEC | Leisure Centres owned by council |
|-------|--------------------------------------|-----------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------|------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------|
| 31001 | 104                                  | 75                                            | 41                                                              | 29                                               | 0                                                                            | 104                                                | 4                                |
| 31011 | 94                                   | 26                                            | 10                                                              | 68                                               | 0                                                                            | 94                                                 | 6                                |
| 31021 | 133                                  | 129                                           | 5                                                               | 4                                                | 17                                                                           | 116                                                | 1                                |
| 31022 | 5                                    | 5                                             | 5                                                               | 0                                                | 5                                                                            | 0                                                  | 0                                |
| 31025 | 251                                  |                                               |                                                                 | 251                                              | 23                                                                           | 228                                                | 6                                |
| 31031 | 130                                  | 0                                             | 0                                                               | 130                                              | 0                                                                            | 130                                                | 3                                |
| 31037 | 158                                  | 70                                            | 24                                                              | 88                                               | 0                                                                            | 158                                                | 0                                |
| 31038 | 16                                   | 9                                             | 9                                                               | 7                                                | 3                                                                            | 13                                                 | 7                                |
| Total | 891                                  | 314                                           | 94                                                              | 577                                              | 48                                                                           | 843                                                | 27                               |

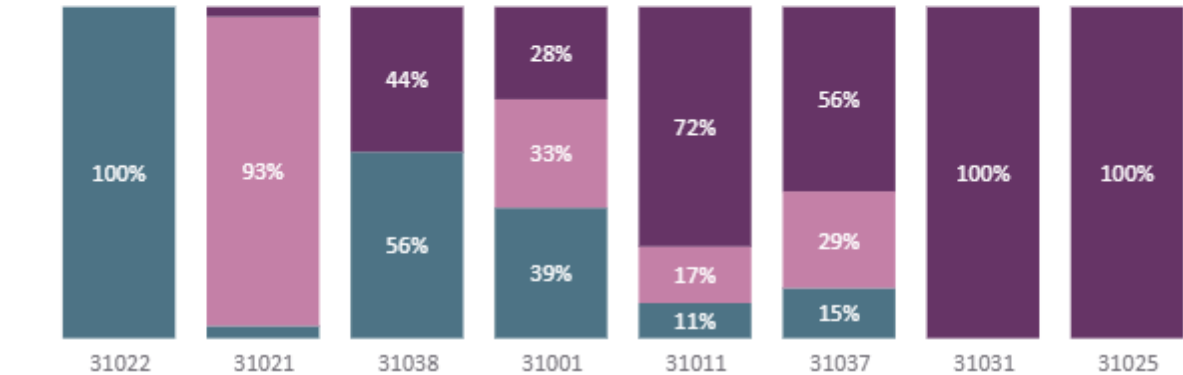
Breakdown of Buildings with a Display Energy Certificate (DEC) by PIN

Count of Buildings with a Display Energy Certificate (DEC)
Count of Buildings without a DEC



% of council owned non-domestic buildings by EPC status

EPC rating C or above
EPC rating Below C
Without EPC



# Vehicles

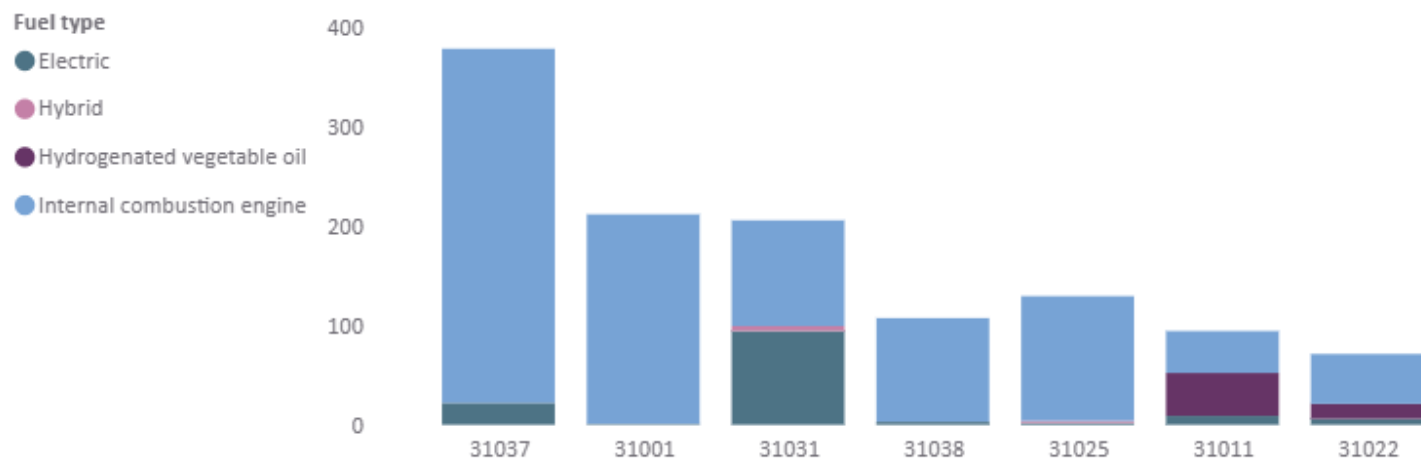
PIN selection

All

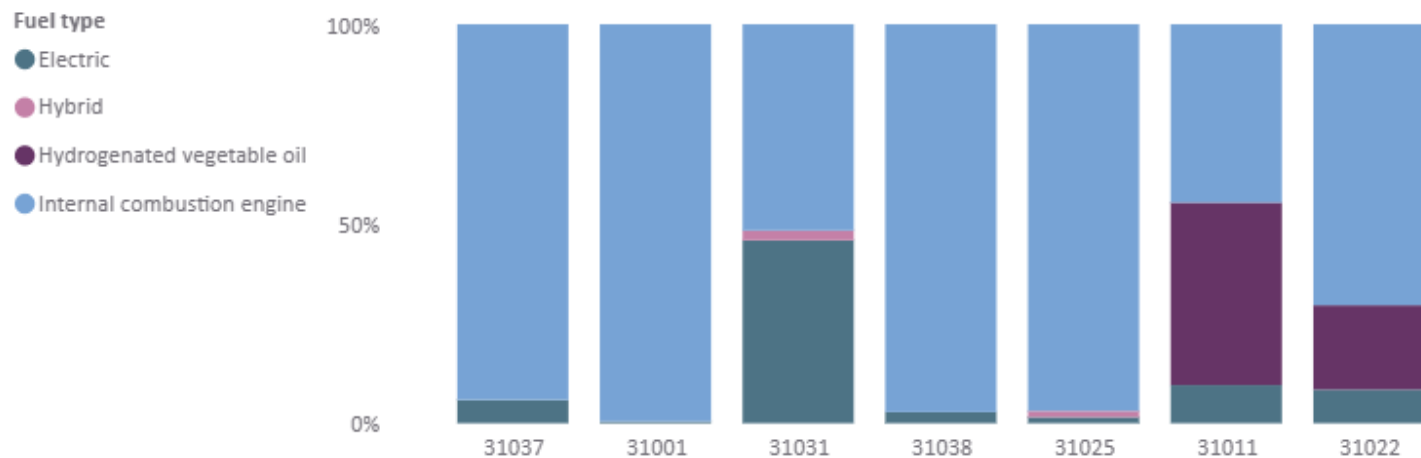
| Vehicle weight                                           | % of vehicles by vehicle weight |
|----------------------------------------------------------|---------------------------------|
| Vehicles less than 1,700kg GVW                           | 21.73%                          |
| Vehicles greater than 1,700kg and less than 3,500kg GVW  | 33.21%                          |
| Vehicles greater than 3,500kg and less than 7,500kg GVW  | 23.24%                          |
| Vehicles greater than 7,500kg and less than 18,000kg GVW | 13.62%                          |
| Vehicles greater than 18,000kg GVW                       | 8.19%                           |

| Fuel type                  | Number of vehicles | % of vehicles by fuel type |
|----------------------------|--------------------|----------------------------|
| Electric                   | 137                | 11.47%                     |
| Hybrid                     | 7                  | 0.59%                      |
| Hydrogen                   | 0                  | 0.00%                      |
| Hydrogenated vegetable oil | 58                 | 4.86%                      |
| Internal combustion engine | 992                | 83.08%                     |
| Liquid petroleum gas       | 0                  | 0.00%                      |
| Other fuel                 | 0                  | 0.00%                      |
| <b>Total</b>               | <b>1,194</b>       | <b>100.00%</b>             |

Total number of vehicles by fuel type



% Breakdown number of vehicles by fuel type



# Renewable energy use

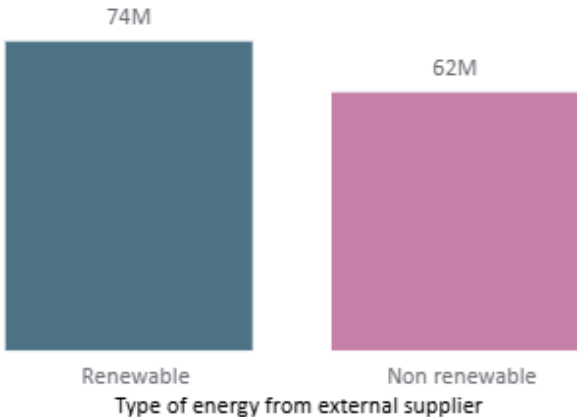
PIN selection

All

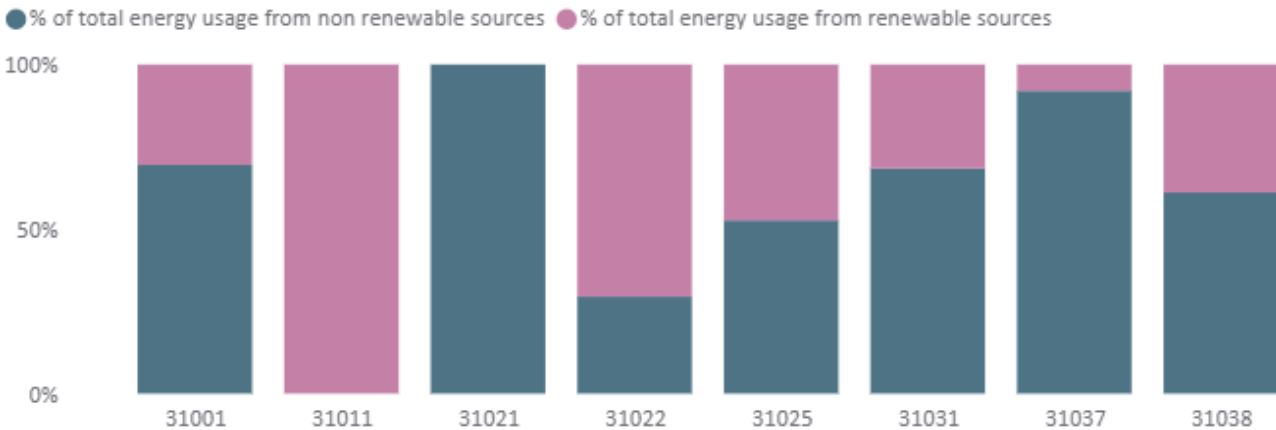
Renewable enrgy use by type (kWh)

| Renewable energy source    | Electricity Exported | Electricity Used | Heat Exported | Heat Used | Total      |
|----------------------------|----------------------|------------------|---------------|-----------|------------|
| ▲                          |                      |                  |               |           |            |
| Biogas (all including CHP) |                      | 624,041          |               | 4,354,112 | 4,978,153  |
| Biomass                    |                      |                  |               | 3,036,243 | 3,036,243  |
| Other                      |                      | 532              | 82            | 14        | 628        |
| Solar PV                   | 695,680              | 2,317,066        |               |           | 3,012,746  |
| Wind                       |                      | 72,817           |               |           | 72,817     |
| Total                      | 695,680              | 3,014,456        | 82            | 7,390,369 | 11,100,587 |

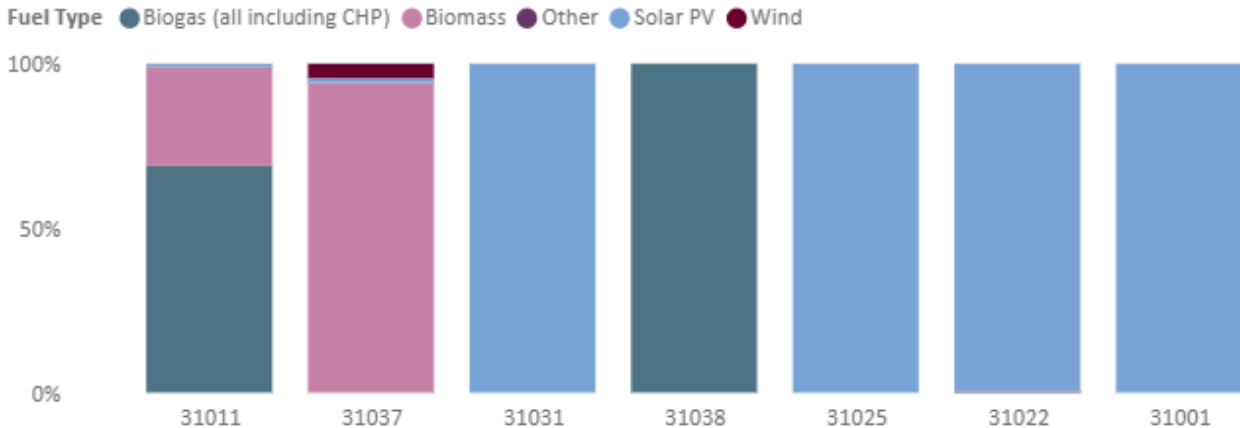
Energy purchased from external supplier by type



% of energy used from renewable and non renewable sources



% breakdown of energy used from renewable sources





# Developments 2026

- Training and development
  - Data completion training
  - Data analysis training
- Improvement networks including case studies
- Reveal the identities of authorities and their contact details for further benchmarking between participating members.
- Include historical data analysis on the reports so members can see trends in addition to current levels of performance by authorities, allowing for further data drilling.



## The small print...always seek advice

Thank you for joining us today. We hope you found our time together informative and valuable.

As public servants, we suggest that you seek the appropriate level of advice within your own council procedures, rules or standing orders before acting on any material or content.



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