

**REN  ZERO**

## **Renfrewshire's Plan for Net Zero**

February 2023

# WHAT IS CLIMATE CHANGE?

CLIMATE CHANGE REFERS TO THE CHANGES IN AVERAGE TEMPERATURES AND WEATHER CONDITIONS IN A REGION OVER MANY YEARS

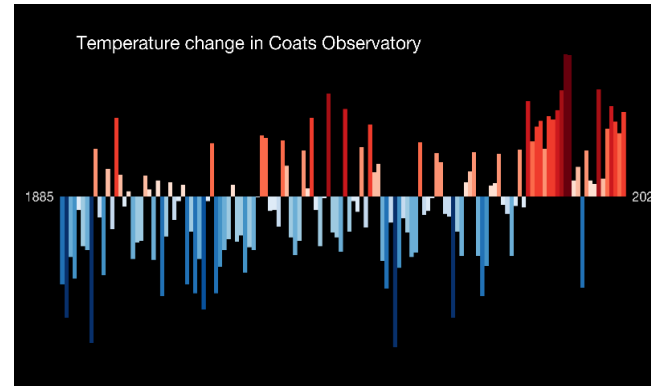
- the increased **concentration of greenhouse gases** in the earth's atmosphere is **directly linked** to the rise in average **global temperatures** on earth and is resulting in global climate change
- since the industrial revolution, **levels of carbon dioxide (CO<sub>2</sub>)** have spiked rapidly
- global surface temperature has **increased faster since 1970** than in any other 50-year period over at least the last **2,000 years** - resulting in more severe and more frequent extreme weather events such as heatwaves, droughts, flooding and wildfires



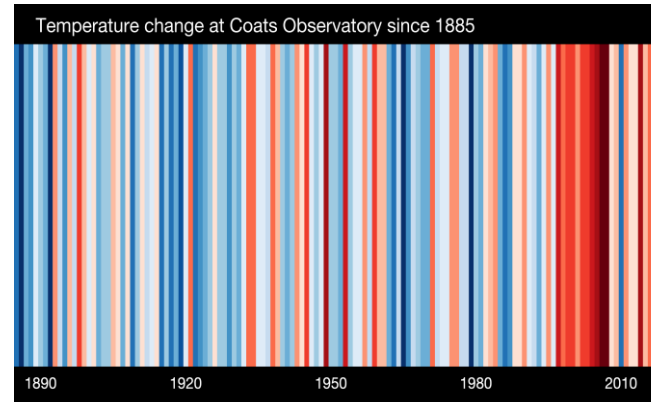
# PAISLEY'S CLIMATE STRIPES: LOCAL IMPACTS OF CLIMATE CHANGE

THE COATS OBSERVATORY IN PAISLEY OPENED IN 1883 AND INCLUDES A WEATHER STATION THAT HAS BEEN RECORDING LOCAL WEATHER DAILY FROM 1885

- provides us with an **unbroken record of weather data**, including average local weather temperatures for each year since 1885
- from this data, **Paisley's Climate Stripes** were created – this shows the progressive heating of our local area in a single image



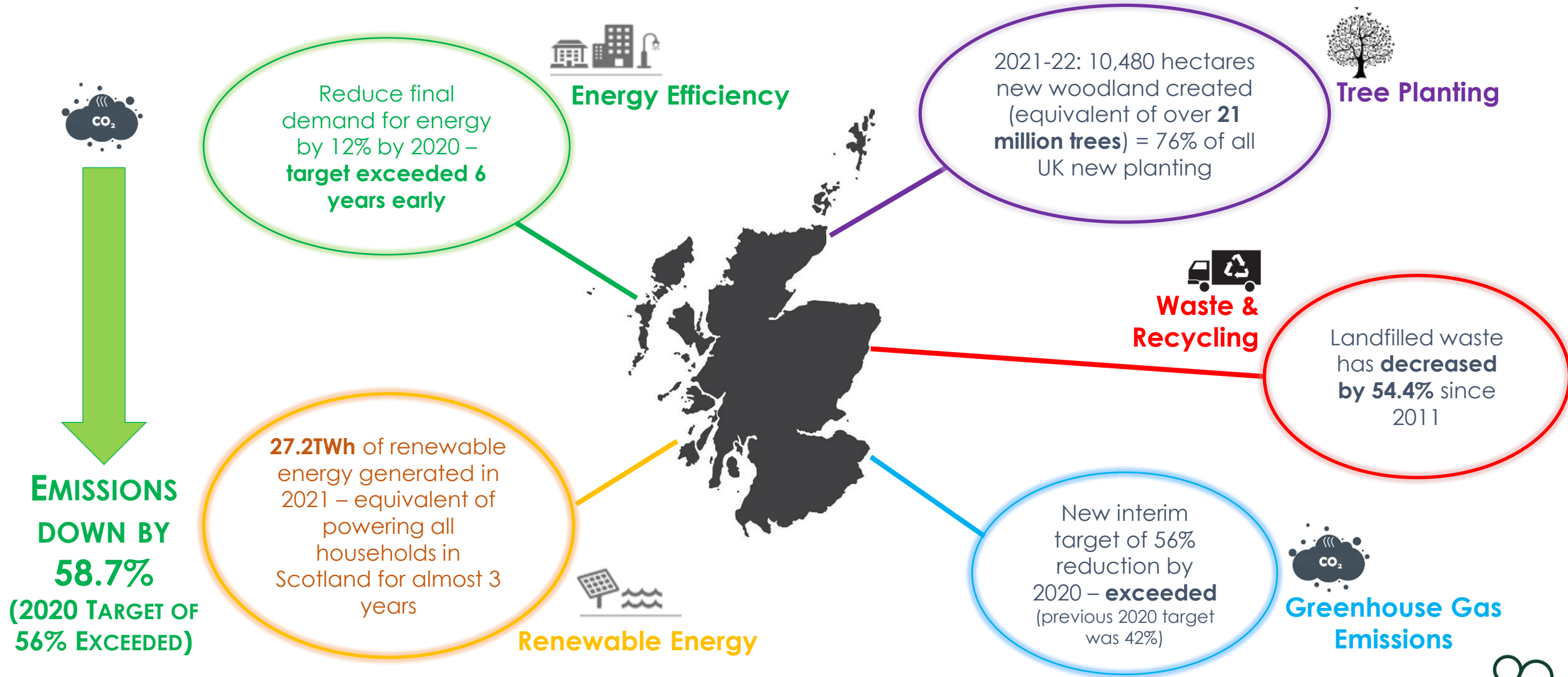
Coats Observatory average local temperature, 1885 to March 2020



THE CLIMATE STRIPES CLEARLY HIGHLIGHT HOW AVERAGE TEMPERATURES HAVE RISEN IN OUR LOCAL AREA AND THAT THIS HAS BECOME MORE FREQUENT & EXTREME IN THE LAST 25 YEARS



# SCOTLAND'S CLIMATE ACTION: PROGRESS & ACHIEVEMENTS SO FAR



# RENFREWSHIRE'S PLAN FOR NET ZERO

WORKING TOWARDS NET ZERO BY 2030 FOR THE WHOLE OF RENFREWSHIRE TO ENSURE A SAFER, HEALTHIER, GREENER AND FAIRER PLACE FOR EVERYONE TO LIVE, WORK AND SPEND TIME IN

## Going Net Zero:

**Reducing greenhouse gas emissions to nearly zero** – from our buildings, travel, industry, resource use and purchases  
and **locking up the remaining balance** through nature and mechanical carbon capture and storage schemes.

So the **balance of our emissions** is 'net' zero:


$$\text{Factory} + \text{Lightning Bolt} + \text{Car} + \text{Recycling} - \text{Plant} = 0$$

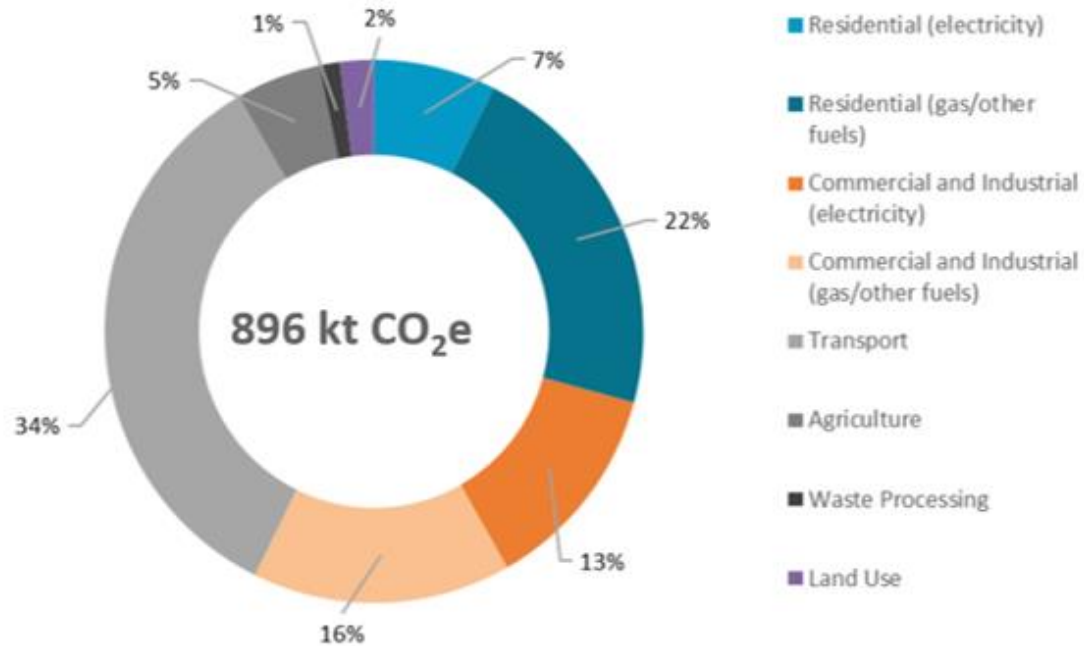
SMALL INDIVIDUAL ACTIONS, REPEATED ON A LARGE SCALE, CAN HAVE A BIG IMPACT IN TACKLING CLIMATE CHANGE



## EVIDENCE BASE: EMISSIONS BASELINING

**WE ARE COMMITTED TO WORKING TOWARDS NET ZERO EMISSIONS. IN ORDER TO WORK COLLECTIVELY TO REDUCE EMISSIONS, IT IS IMPORTANT TO KNOW WHERE WE ARE STARTING FROM AS AN EVIDENCE BASE**

### Area-Wide Emissions Breakdown



### Key Findings - Area-Wide:

- Data shows transport is currently the biggest source of emissions in Renfrewshire at **34%**
- Residential energy: **29%**
- Commercial and Industrial energy: **29%**

### Key Findings – Renfrewshire Council:

- Renfrewshire Council makes up **2.5%** of the total area emissions
- Buildings we are responsible for: **67%**
- Council Fleet: **17.3%**

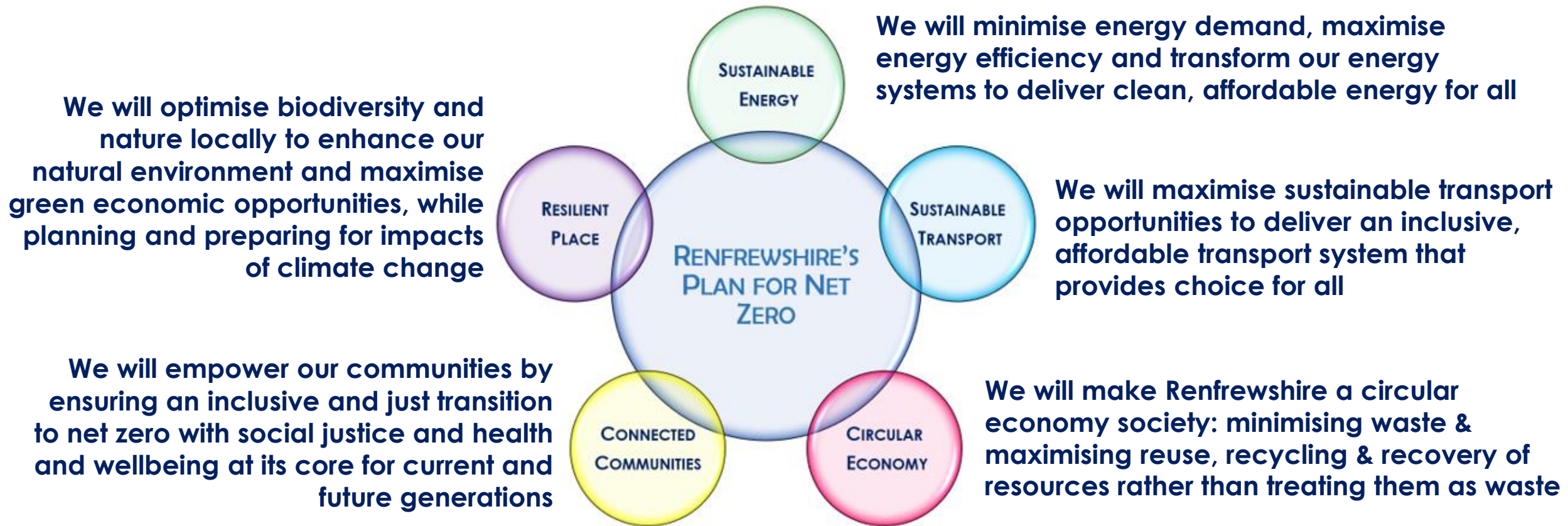
**IN ORDER TO PRIORITISE ACTION, IT IS CRITICAL TO IDENTIFY KEY SOURCES OF EMISSIONS TO BE TARGETED, TO ENABLE US TO MONITOR PROGRESS USING AN OPEN AND TRANSPARENT PROCESS**





# RENFREWSHIRE'S PLAN FOR NET ZERO

**WORKING TOWARDS NET ZERO BY 2030: WE WANT TO END RENFREWSHIRE'S CONTRIBUTION TO CLIMATE CHANGE WITHIN A GENERATION**

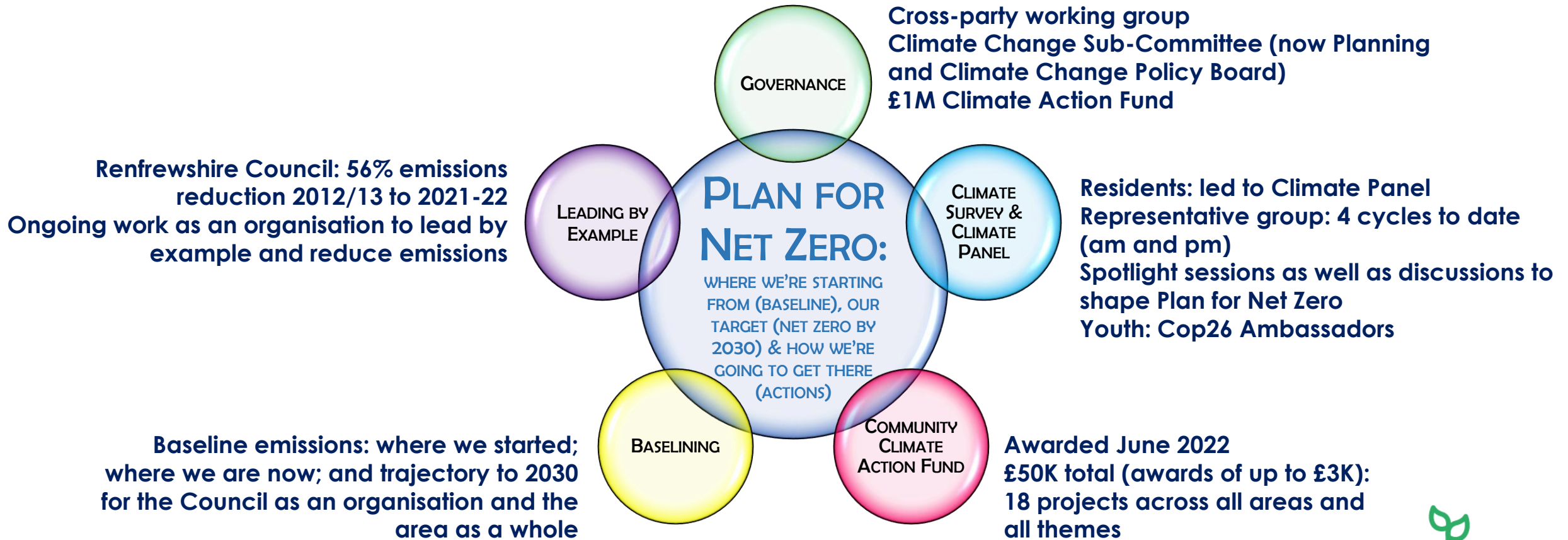


**THE PLAN IS COUNCIL-LED BUT IS FOR THE AREA AS A WHOLE AND WE NEED EVERYONE TO PARTICIPATE TO ACHIEVE OUR AMBITIONS**



# RENFREWSHIRE'S PLAN FOR NET ZERO: THE GROUNDWORK

*Renfrewshire Council declared a climate emergency in June 2019 and are committed to working towards net zero emissions by 2030*





# How Can I Get Involved?



- Renfrewshire's Plan for Net Zero: input, comments, ideas sharing
- Ren Zero branding
- Support for local residents – advice, signposting, support schemes
- Support for local groups – talks, signposting
- Support for local businesses – grant fund
- Chat to us!

**SMALL INDIVIDUAL ACTIONS, REPEATED ON A LARGE SCALE, CAN HAVE A BIG IMPACT IN TACKLING CLIMATE CHANGE**

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**#RenZero****