

# HIWFRS Carbon Footprint Summary

2022/23 Carbon Footprint



Hampshire  
& Isle of Wight  
FIRE & RESCUE SERVICE

# 2022/23 Carbon Footprint:

Buildings



57%

Fleet



43%

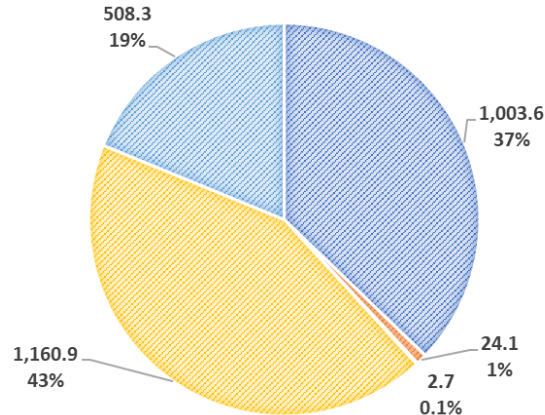
Training



0.1%

HIWFRS CARBON EMISSIONS (TCO2E) 2022/23

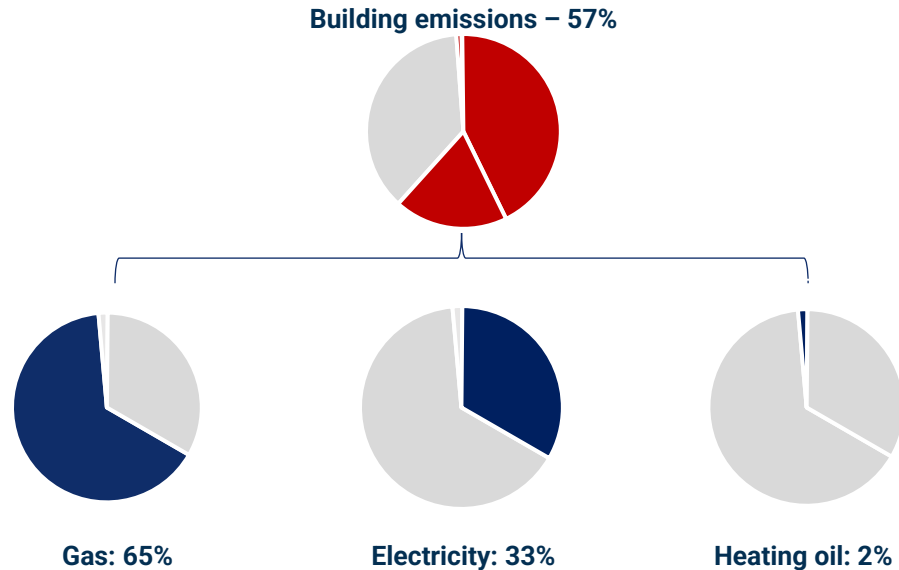
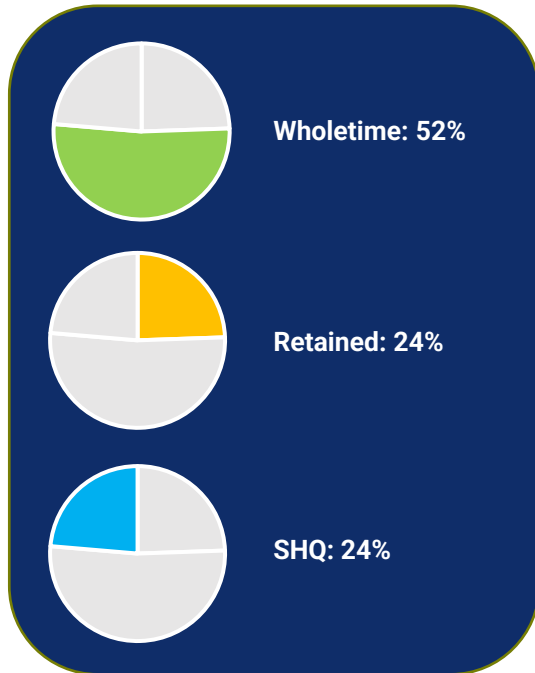
■ Natural gas ■ Heating Oil ■ Burning Timber ■ Fleet ■ Electricity



- This footprint has been calculated according to the **Greenhouse Gas (GHG) Protocol**
- **Scope 1:** Direct emissions from combustion of gas and other fuels.
- **Scope 2:** Emissions resulting from purchased electricity, heat, or steam.
- **Not included - Scope 3:** Emissions made by third parties in connection with operational activities.

Scope	Emission source	tCO <sub>2</sub> e
1	Natural gas	1,003.6
1	Other fuels	26.8
1	Fleet	1,160.9
2	Electricity	508.3
<b>Total Emissions</b>		<b>2,699.6</b>
<i>Avoided emissions (Solar PV)</i>		<i>-102.24</i>

# Building Emissions:



*\*Where partners are operating on sites, emissions for all parties are included.*



# Fleet Emissions:

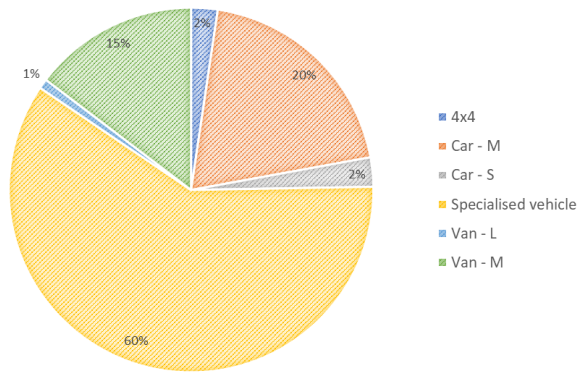
FIRE AND RESCUE

VOLVO

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- Fleet fuel consumption represents **43%** of HIWFRS scope 1 and 2 emissions.
- HIWFRS is responsible for **435** vehicles,
  - 96% of vehicles are diesel, 3% unleaded and 1% electric.
- **455,123L** of fuel was consumed in the reporting period.
- Specialised vehicles account for **60%** of the total fuel use.

TCO2E (2022/23) BY VEHICLE TYPE



# Strategic Trajectory:

## Buildings



- 257 tCO<sub>2</sub>e

## Fleet



- 216 tCO<sub>2</sub>e

## Training



- 1.3 tCO<sub>2</sub>e

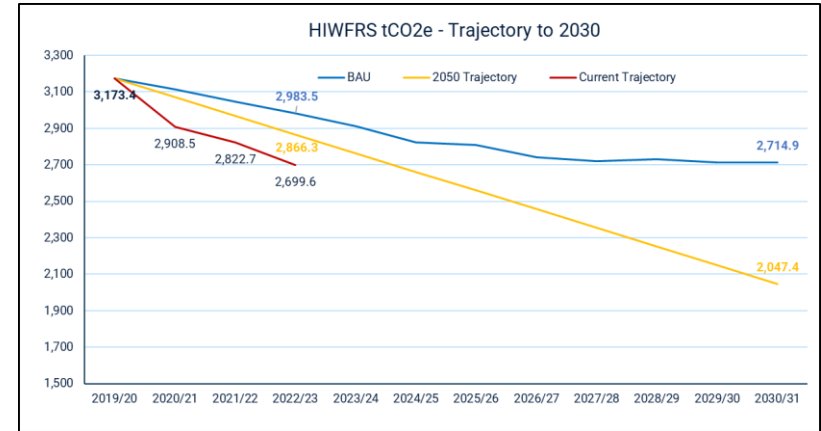
Compared to the 2019/20 baseline, HIWFRS will need to proactively reduce carbon emissions by **668 tCO<sub>2</sub>e per year** by 2030 against the UK national target option.

When comparing 2022/23 to the baseline, HIWFRS reduced emissions by **14.9%** which is an improved position in comparison to BAU and the UK National Target

HIWFRS is currently on target to meet the 2030 Carbon reduction target to be emitting **2,047.4 tCO<sub>2</sub>e** per year



Between now and 2030, the carbon intensity of the UK's national grid is expected to reduce by 64% as renewable generation (e.g. wind, solar) is replacing traditional fossil fuels (e.g. coal, natural gas).



	2019/20 baseline	2022/23	Actual Reduction (tCO <sub>2</sub> e)	Actual Reduction (%)
BAU	3,173.4	2,983.5	189.9	-6%
UK National Target	3,173.4	2,866.3	307.1	-9.7%
HIWFRS Actual Trajectory	3,173.4	2,699.6	473.8	-14.9%



# Summary of works: People

- **200+** Community Events held or attended.
- The Energy team supported a **water saving trial** requested by Fareham fire station, to reduce the impact of routine vehicle washing.
- The **Environmental Champions group** meets regularly to discuss sustainability issues and identify new projects.
- HIWFRS currently have **four Staff Networks**: FirePROUD, FireREACH, FireENABLE, FireINSPIRE and has support around the menopause, dyslexia, neurodivergence, and mental health.
- HIWFRS has the **Say So** service for anonymous reporting of incidents.
- HIWFRS support the Safety Through Education and Exercise for Resilience (**STEER**) course, which reduces falls and increases resilience in the elderly.



FireENABLE



FirePROUD



FireINSPIRE



FireREACH



# Summary of works: Planet

- **Bishops Waltham** has been completed, and has a green roof, solar PV array, air source heat pump heating, hedgehog houses, nesting brick, fleet EV charging point and a cycle shelter.
- **Cosham** is underway, targeting BREEAM excellent, and will have a solar PV array, air source heat pump heating, bat boxes, fleet EV charging point and a cycle shelter.
- **Appliance Bay Doors Upgrades** at Kingsclere, Hayling Island, Bordon, and Shanklin.
- **Roof Improvement** projects at Ventnor, Cowes, Bembridge, Freshwater and Newport.
- 3x **cycle lockers** and 3x **cycle repair stations** were installed through funding from the MyJourneys team.





# Summary of works: Public Purse

- During the creation of the major SIP contracts, **to drive additional social value from contracts**, it was requested that the contractor employ apprentices throughout their works and then report on this as a KPI:
  - Bishops Waltham had a target of 1 apprentice and achieved 3.
  - Live Fire had a target of 1 apprentice and has achieved 5.
  - Cosham has a target of 11 apprentices and so far, they have currently reached 3.
- Estate-wide condition surveys were completed with an increased focus on energy and carbon improvements. This included structural, electrical and heating system surveys, as well as analysing the energy performance of buildings, and a drone survey of roofs.
- A consultant was also brought in to conduct a full initial environmental review across 10 key HIWFRS sites. This identified the risks to the environment, biodiversity, and any legal considerations.







**‘Keeping our  
people safe at  
home, on the road  
and at leisure.’**

Hampshire & Isle of Wight  
Fire & Rescue Service