

Climate Change Action Plan Update

Climate Change Scrutiny Panel

24 January 2022

Climate Change Action Plan Update

- Projected emission savings from approved projects
- Update on other projects since 12 October Panel
- Whole Borough Carbon Footprint

Manager Engagement

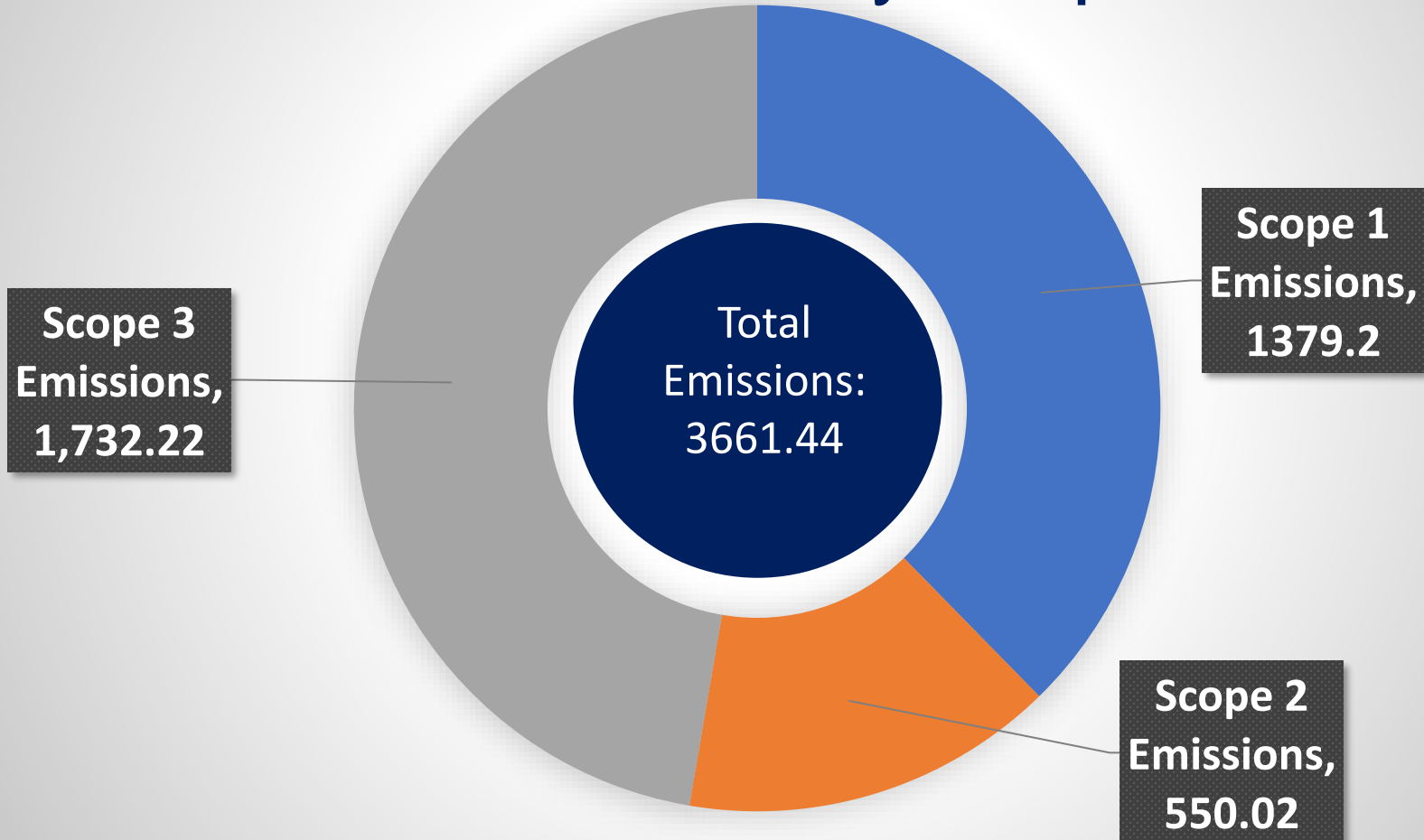
- Meetings with service leads/managers of projects linked to Action Plan
- Senior Managers Workshop:
 - Why climate change is important
 - What is being done e.g. Climate Change Action Plan overview
 - Their role as managers
 - Borough wide impact
 - Ideas generation – assessing suitability



Emissions Scope Reminder

- **Scope 1:** Direct emissions from our activities e.g. fleet fuel, site gas and emergency generator
- **Scope 2:** Electricity from sites we control e.g. Civic Offices and Depot, CCTV
- **Scope 3:** Indirect emissions from sources we don't control e.g. Leisure Centres, Community Centres
- **2019/20** is the baseline year for emissions

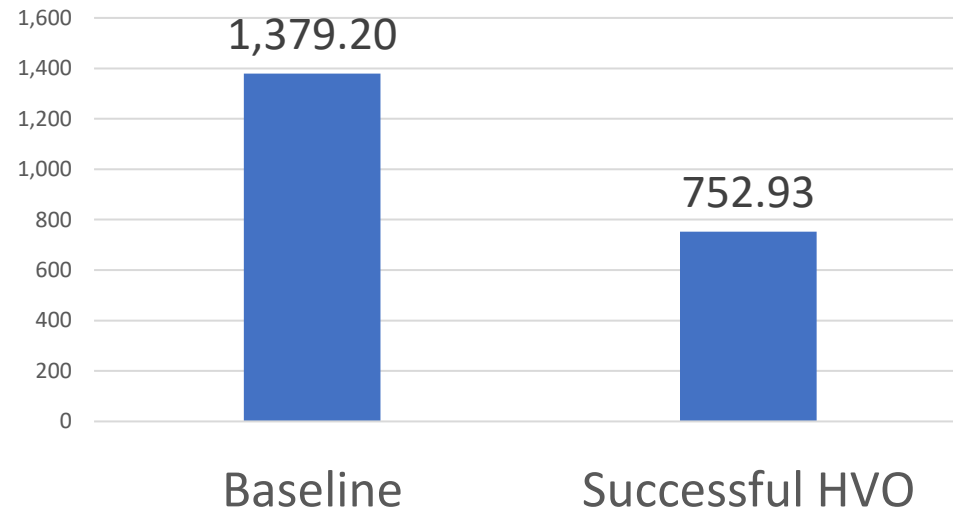
2019/20 emissions by scope TCO₂e



Scope 1: Vehicle Fuel

- Vehicle fuel: 67% of Scope 1 emissions
- 12 month Hydrotreated Vegetable Oil (HVO) trial launching February
- Learn from study then decide whether to roll out to RCV fleet
- Scope 1 could reduce by up to 45%
- Cost up to additional £13,200 a year on current prices

Potential impact of successful HVO trial on Scope 1 (TCO_{2e})



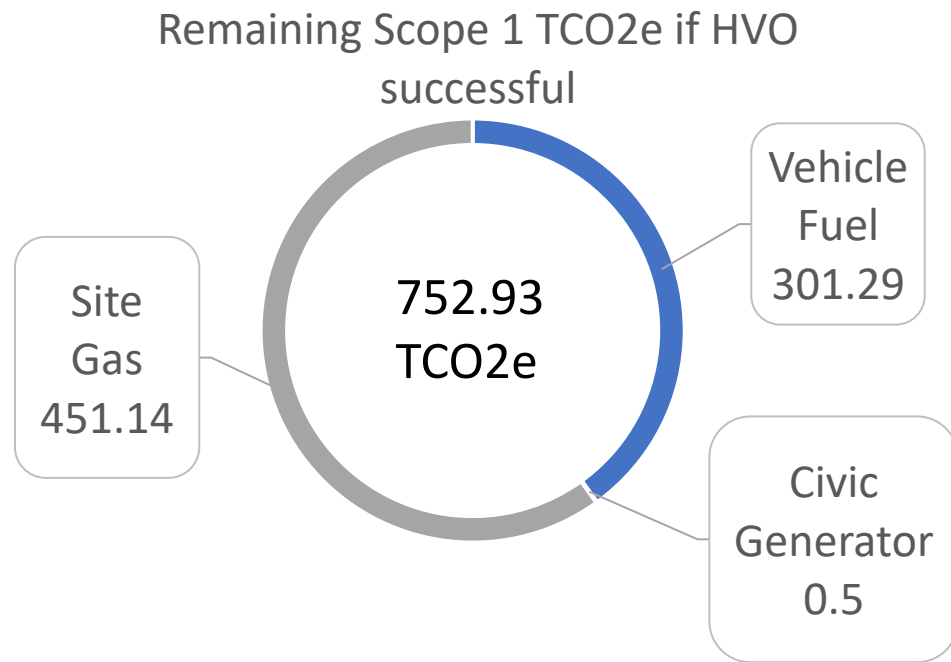
Scope 1: Vehicle Fuel

- Still 301.29 TCO₂e of vehicles fuel emissions
- Feasibility study of electrification infrastructure at Depot
- Vehicle replacement project
- Longer term: Feasibility of Green Hydrogen – made from renewable energy sources



Remaining Scope 1 emissions

- Gas is a significant challenge for Scope 1
- Biomethane only alternative gas on the market
- Mainly made from food waste
- Reduces TCO₂e by around 99%
- Relatively expensive: Estimate additional £22,381 a year

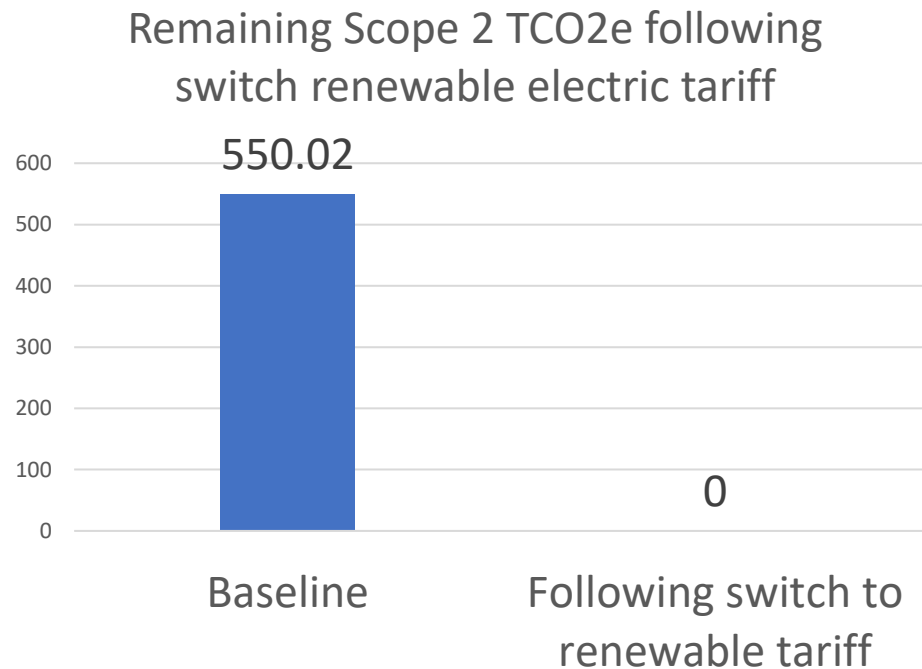


Gas Considerations

- Decarbonisation/improved energy efficiency of buildings will help reduce consumption:
 - Decarbonisation feasibility studies for Depot and Civic
 - Respond to funding when available
- Hydrogen may be an option longer term:
 - Grey: made from burning fossil fuels
 - Blue: made from natural gas but carbon is captured
 - Green: made using renewable electricity e.g. solar
- Trials starting to take place e.g. Keele but still uncertainty
- 2026 Government decision expected on Hydrogen role in heating network

Scope 2: Site electricity

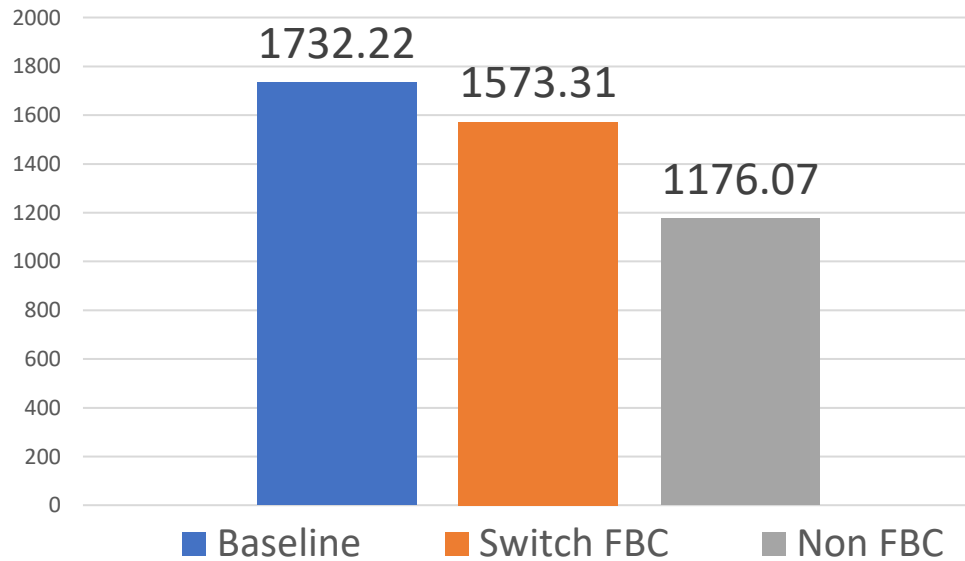
- Site electricity e.g. Civic, Depot, and Car Parks 100% of Scope 2 emissions
- Renewable Electricity Tariff:
- Switch over for 2022/23
- Reduction of 550 TCO₂e
- Estimated additional cost of £1,506 a year



Scope 3: Electricity

- Electricity is 32% of Scope 3 emissions
- Swap those under FBC control e.g. Civic tenants for 2022/23
- Estimated additional cost of up to £578 a year
- Work starting to encourage transition at non-controlled sites:
 - Community Centres
 - Leisure Centres

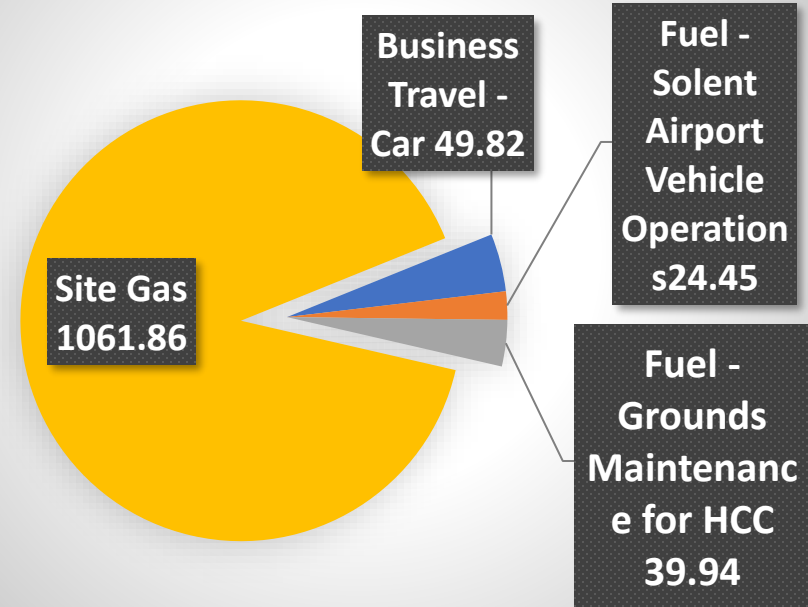
Remaining scope 3 TCO₂e if switch to green electric



Scope 3: Remaining emissions

- Gas is 90% of remaining footprint
- Same considerations as with Scope 1
- Meeting with RCA to explore opportunities

Remaining Scope 3 TCO₂e if move to all renewable electric



Other considerations: Scope 3 reporting may evolve

- We calculate gas, business travel electricity and fuel in external sites
- Can also include a range of activities e.g.:
 - Procurements:
 - Goods purchased e.g. paper – Paperless Committees to save up to 1.5 TCO₂e
 - Services e.g. cloud storage
 - Capital e.g. vehicles or construction Buildings
 - Employee commuting
 - Production and transportation of fuel we use
 - Waste generated by FBC
- Likely drive to broaden scope of what we report in next 5-10 years
- Could have a significant impact on carbon footprint

Hampshire wide carbon footprint

- Data from 2019:
 - Industry
 - Commercial
 - Public Sector
 - **Domestic**
 - **Transport**
- Focus on electric and gas use
- Limitations to accuracy at Council level



Borough wide carbon footprint

- 2019: 458,500 TCO₂e for whole of Fareham
- 38% decrease since 2005
- 3.9 TCO₂e per capita compared to 5.2 for whole of UK
- Only 0.8% of Borough's footprint is made up of Council emissions
- Fareham accounts for 6.4% of Hampshire's total carbon footprint of around 8,047,000 TCO₂e

Whole Local Authority Area Carbon Footprint Comparison						
Local Authority	Industry	Commercial	Public Sector	Domestic	Transport	Total
Basingstoke and Deane	141.3	80.9	19.6	253.7	511.4	944.5
UK Average	214.1	82.4	33.1	249.0	327.9	909.8
Hampshire Average	82.7	49.2	15.8	178.0	298.0	619.0
Fareham	47.3	41.2	19.8	153.7	202.9	458.5
Gosport	22.4	21.5	9.4	94.4	56.4	202.2

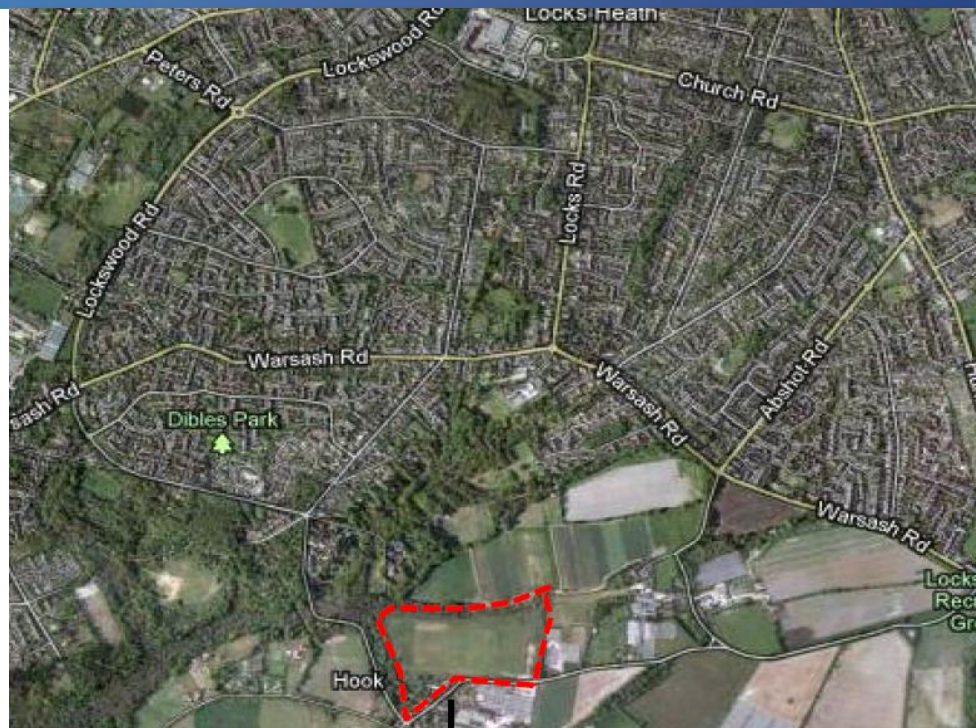
Wider Borough emissions

- Greening Campaign Titchfield Pilot
 - Mixed response
 - Liaising with community groups
 - Looking for a 'leader'
- HCC secured funding for more Greening Campaigns
- Warsash Residents Association presentation well received



Wider Borough Emissions: Solar

- Hook tip Solar Farm
- Original 2.5Mw proposal could power 675 homes was not cost effective
- Feasibility studies for:
 - 1.5 Mw could power 405 homes
 - 1Mw could power around 270 homes



Wider Borough: Solar

- If feasible possible options for discussion could include:
- Joint venture with Solar Farm company
- Promote land as an opportunity
- Explore potential to offset FBC carbon footprint



Wider Borough Emissions: EV

- Identify sites for SSE charging hubs:
 - Around 12 charging points at each
- Identified 14 potential sites across the Borough
- Potential focus on:
 - Market Quay
 - Broadcut – Costa/Pure Gym
 - Segensworth Argos etc
- Exploring issues with leases etc



Hampshire County Council

- Additional funding of £205,000 secured for:
- Greening Campaign
- Community Energy South scheme
- £5,000 waste prevention grant open to community groups
- Local Cycling and Walking Infrastructure Plan consultation



Hampshire
County Council

FAREHAM
BOROUGH COUNCIL

Next steps

- Monitor HVO trial
- Transition to renewable electricity tariff – partners
- Working with Communications on plan for internal and external comms
- Develop training approach for Members and employees
- Further engagement e.g. Friends of the Earth presentation
- Decision making tool:
 - Only small implementation of HCC tools for measuring a project's climate risk and footprint
 - Further work on adapting tool for needs of Fareham

Questions?