**Weymouth Town Council – Decarbonisation Action Plan**

This action plan sets out the current baseline information for Weymouth Town Council (WTC) regarding direct and indirect (Scope 1, 2 and 3) emissions of greenhouse gases and details information on potential actions to reduce these emissions towards achieving a net zero carbon status by 2030. The Action plan will allow members to take effective strategic decisions and prioritise actions over the next 10 years to meet this target.

The action plan is based on the information gathered and presented to WTC by the Carbon Trust in June 2020 which provided a comprehensive carbon footprint illustration. This provides the baseline figures from which it will be possible to measure against to show progress in the coming years.

The Carbon Footprint has been calculated in line with the Greenhouse Gas (GHG) Protocol emission scopes; these are set out as follows:

* Scope 1: Direct emissions from combustion of gas and other fuels.
* Scope 2: Emissions resulting from the generation of electricity and other energy purchased (but generated elsewhere).
* Scope 3: Emissions made by third parties in connection with operational activities.

**WTC 2019 initial Carbon Footprint = 1,176.2 tCO2e (Baseline Figure)**

**What does Net Zero actually mean?**

**Target:** Weymouth Town Council to achieve Net Zero Carbon Emissions by 2030.

Be clear what WTC are attempting to achieve by 2030 – Zero Carbon vs Carbon Neutral (off setting and reduction).

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| **Term** | **Definition** | **Defined by** |
| Net Zero | A net zero organisation will set and pursue an ambitious 1.5 C aligned Science Based Target for its full value chain emissions. Any remaining hard to decarbonise emissions can be compensated with certified greenhouse gas removal (GGR). | Science Based  Targets Initiative |
| Carbon Neutral | A carbon neutral organisation will measure its carbon footprint and develop and implement a Carbon Management Plan (including a reduction target). Residual emissions will be offset by high quality, certified carbon credits. | BSI  PAS 2060 |

**Prioritising**

The next steps will be about understanding the scale of the challenge and deciding on where and when to focus WTC efforts and resources to have the most impact.

To be able to prioritise and plan for effective actions a prioritisation decision will need to be made for each of the activity areas across the three different scopes to allow planned progress across the period up to 2030. A suggested short, medium, and long-term time frame has been set out below for members to consider.

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| **WTC Priority** | | | |
| 1 | Short-term | Nov 2020 – Mar 2023 | 2yrs 5mths |
| 2 | Medium-term | Apr 2023 – Mar 2028 | 5yrs |
| 3 | Long-term | Apr 2028 – Mar 2030 | 2yrs |

**Carbon Emissions Summary Table**

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| **Source** | **Scope 1**  **tCO2e** | **Scope 2**  **tCO2e** | **Scope 3**  **tCO2e** | **Total**  **tCO2e** |
| Fleet | 36.97 | 0.17 | 8.85 | 45.99 |
| Biomass | 6.94 | 0.00 | 3.52 | 10.46 |
| Electricity | 0.00 | 49.88 | 4.24 | 54.12 |
| Water | 0.00 | 0.00 | 12.08 | 12.08 |
| Business Travel | 0.00 | 0.00 | 1.47 | 1.47 |
| Contracts | 0.00 | 0.00 | 906.43 | 906.43 |
| Waste | 0.00 | 0.00 | 10.64 | 10.64 |
| Leased Buildings | 0.00 | 0.00 | 109.55 | 109.55 |
| Commuting | 0.00 | 0.00 | 25.42 | 25.42 |
| **Total** | **43.92** | **50.05** | **1,082.19** | **1,176.16** |

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| **SCOPE 1 – DIRECT EMISSIONS (combustion of gas and other fuels)** | | | | | | | | |
| Contribution to overall footprint = 43.9 tCO2e (4%)  Fleet = 36.97 tCO2e (84%)  Biomass = 6.94 tCO2e (16%) | | | | | | | | |
| **Activity** | **Vehicle / Site** | **Scope 1**  **tCO2e** | **Scope 3 tCO2e**  **(WTT)** | **Total**  **tCO2e** | **Cost to Replace**  **(£)** | **Saving**  **(£)** | **Carbon Impact** | **WTC Priority** |
| **Year 1 tCO2e** |
| Electrification of Fleet | Diesel Van Class III  (8 x Flat Bed) | 24.01 | 5.73 | 29.74 | £204,785 | £2,898 | 6.5 | 1 - 3  Replace one vehicle per year (once vehicle technology becomes available).  Relevant charging points |
| Diesel Van Class I (x1) | 0.70 | 0.17 | 0.87 | £23,472 | £218 | 0.3 |
| Diesel Van Class III (x1) | 11.15 | 2.68 | 13.83 | £29,255 | £451 | 5.9 |
| Industrial Mowers (x6) | £42,000 -  £60,000 | £1,522 | ~5.2 |
| Small Petrol Car (x1) | 1.11 | 0.27 | 1.38 | £8,000 | £233 | 0.2 |
|  | **Total** | **36.97** | **8.85** | **45.82** | **£325,512** | **£5,322** | **18.1** |  |
| Biomass Boiler | Nursery, Lynch Lane | 6.94 | 3.52 | 10.46 |  |  |  | **1** |
|  | **Total** | **6.94** | **3.52** | **10.46** |  |  | **10.46** |  |
| **Mitigation Notes**   * Members have agreed to electrify the WTC fleet. * Priority is to replace the 8 x flatbed vehicles next. * A reserve account specifically ring fenced for electrification of the fleet has been created which will receive an annual amount from the Parks and Open Spaces budget. By the end of 2020/21 budget year there will be an estimated £100,000 in this account. * The timeframe of buying new electric flatbed lorries will also be dictated by the level of technology available, at present there is very limited options and the capabilities and cost of the vehicles does not fit what we require. This will steadily improve over the coming years especially as the government agenda on this area has been brought forward. Regular research and assessment of the technology available needs to be done to ensure we can access the right vehicles at the earliest opportunity electrifying the fleet. * Decision to purchase vehicles vs using a leasing scheme (policy to replace all diesel vehicles by 2024). * Biomass boiler – Feasibility research and a project plan are being developed to ascertain if the WTC nursery based at Lynch Lane can be relocated to the Tumbledown site. If this is possible part of the work will explore alternative opportunities for energy production which could include PV, air source and ground source technology, this would lead to the biomass boiler not being relocated to the new site. | | | | | | | | |

* An electric vehicle currently emits 70% fewer emissions per mile compared to a diesel vehicle, this will increase further as the grid decarbonises.
* 90% of UK car journeys are under 30 miles so electric vehicles would suit 90% of people 90% of the time.

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| **Charging Points** | | | |
| Electrification of the Fleet will require more charging points to be installed.  **OLEV Workplace Charging Scheme (WCS)**  •Voucher-based scheme that provides support towards the up-front costs of the purchase and installation of electric vehicle charge points.  •Grant of £500 for each charge point socket, and can support up to 20 charge point sockets per body (limited to a maximum of 75% total cost) | | | |
| **Items** | **3.5kW** | **7kW** | **22kW** |
| Charge point cost | £1,890 | £1,890 | £1,890 |
| Installation | £2,000 | £5,000 | £5,000 |
| **Mitigation Notes**   * Completed action – Moving over to using electric vehicles for our small Parks vehicle and our Cleansing team van. * A reserve account specifically ring fenced for electrification of the fleet and the installation of additional charging points has been created which will receive an annual amount from the Parks and Open Spaces budget. By the end of 2020/21 budget year there will be an estimated £100,000 in this account. * WTC have already installed 3 electric vehicle charging points * Commercial Road – size and capacity * Crookhill Depot – size and capacity * Victoria Street Store – size and capacity * As the fleet expands there will be a need to expand the amount of charging points required – potentially P&OS compounds to service the demands of the fleet. * Staggered installation/funding of new charging points as more of the fleet becomes electrified. * Regular research for funding opportunities to help install new charging points. | | | |

**Dorset Council Investment in Electric Fast Charge Points**

Dorset Council will be installing 44 electric vehicle fast charge points that use 100% renewable energy at 18 sites across the County. Work at the phase 1 sites will start in January 2021.

Phase 1 sites in Weymouth

* Governor’s Lane car park, Weymouth, DT4 8DD
* Lodmoor car park, Weymouth, DT4 7SX
* Melcombe Regis car park, Weymouth, DT4 7DW
* Swannery car park, Weymouth, DT4 7TY

Charges per kilowatt hour for using the charge points have been set at the competitive rate of 30 pence per kilowatt hour (enough to drive about 40 miles). Normal car parking charges will apply whilst charging.

Once active, the charge points will appear on Zap Map an industry standard publicly available application for finding charge points.

Dorset Council are aware of the unreliability of the existing rapid chargers which are looking to replace.

Questions can be directed to Kelly Flynn or Owen Clark by emailing [ElectricVehicles@dorsetcouncil.gov.uk](mailto:ElectricVehicles@dorsetcouncil.gov.uk)

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| **SCOPE 2 – Emissions resulting from electricity** | | | | | |
| Contribution to overall footprint = 50 tCO2e (4.25%)  Electricity Use in Buildings = 49.88 tCO2e (99.67%)  Fleet (1 x EV) = 0.17 tCO2e (0.33%) (addition of a second small van used by the cleansing team not shown in these figures)  **Total number of buildings / meters = 32, table showings sites with a total emission (Scope 2 &3 combined) of 0.5 tCO2e or above.** | | | | | |
| **Building / Meter** | **Scope 2**  **tCO2e** | **Scope 3**  **tCO2e (T&D)** | **Total**  **tCO2e** |  | **WTC Priority** |
| Commercial Road Offices | 16.31 | 1.39 | 17.70 | Top 3 sites = 61% of Scope 2 emissions | PV Possibilities  Use elec. Or sell to others  1 |
| Tourist Information Centre (Beach Office) | 7.87 | 0.67 | 8.54 |
| Lodmoor Toilets | 6.30 | 0.53 | 6.83 |
| Esplanade Gents Toilets | 2.87 | 0.24 | 3.11 |  |
| Swannery Toilets | 2.34 | 0.20 | 2.54 |  |
| Maiden Street Toilets | 1.58 | 0.13 | 1.71 |  |
| Pier Bandstand Toilets Esplanade | 1.37 | 0.12 | 1.49 |  |
| Greenhill Toilets | 1.26 | 0.11 | 1.37 |  |
| Nothe Garden Toilets | 1.06 | 0.09 | 1.15 |  |
| Decorative Lighting Meter 2 Esplanade | 1.01 | 0.09 | 1.10 |  |
| Electrical Supply Kiosk Plot 1 Alexander Gardens | 0.99 | 0.08 | 1.07 |  |
| Lodmoor Country Park | 0.93 | 0.08 | 1.01 |  |
| Overcombe Toilets | 0.92 | 0.08 | 1.00 |  |
| Nursery, Lynch Lane | 0.89 | 0.08 | 0.97 |  |
| Cove Street Toilets | 0.85 | 0.07 | 0.92 |  |
| Esplanade Lighting Cabinet S2 | 0.56 | 0.05 | 0.61 |  |
| Electric Cabinet Opposite, Gloucester | 0.48 | 0.04 | 0.52 |  |
| Other (x15 sites) | 2.29 | 0.19 | 2.48 |  |
| **Total** | **49.88** | **4.24** | **54.12** |  |  |

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|  | Shows assets where PV might be possible |

T&D = Transmission & Distribution

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| **Mitigation Notes**   * See notes below |

* Scope 2 emissions will naturally decrease over time because of the decarbonisation of the UK grid.
* Reduce scope 2 emissions from on-site renewables and energy efficiency measures will help to further decrease emissions and mitigate any increases in electricity prices.
* The most effective methods for reducing electricity consumption and associated emissions are to switch to LED lighting service or upgrade HVAC systems, upgrade appliances to energy efficient types and installing renewable energy generation to provide zero carbon electricity.

**Potential Mitigation Projects**

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| **Activity** | **Site** | **Est. Annual Energy Savings** | | **Cost**  **(£)** | **Simple Payback**  **Yrs** | **Financial Return** | | **Carbon Impact** | **WTC Priority** |
| **KWh** | **£** | **NPV** | **IRR** | **Year 1 tCO2e** |  |
| **LED Lighting** | Beach Rescue & Hut | 495 | £74 | £900 | 12.1 | £323 | 7% | 0.14 | Where replacement is required replace with LED |
| Beach Store  Queen Street | 61 | £9 | £2,676 | 297.3 | -£2,525 | -14% | 0.02 |
| Victoria Street Store | 319 | £48 | £1,339 | 27.9 | -£551 | -1% | 0.09 |
| Swannery  Toilets | 2906 | £436 | £1,326 | 3.0 | £2,297 | 31% | 0.81 |
| Wyke Gardens  community  building | 0 | £0 | £252 | - | - | - | - |
| Greenhill Toilets | 672 | £101 | £564 | 5.6 | £817 | 17% | 0.19 |
| Nothe  Gardens Accommodation | 300 | £45 | £252 | 5.6 | £365 | 17% | 0.08 |
| Lynch Lane  Nursery | 3317 | £497 | £1,657 | 3.3 | £2,818 | 28% | 0.92 |
| **Total** | **8070** | **£1210** | **£8,966** | **7.4** |  |  | **2.25** |
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| **Activity** | **Site** | **Est. Annual Energy Savings** | | **Cost**  **(£)** | **Simple Payback**  **Yrs** | **Financial Return** | | **Carbon Impact** | **WTC Priority** |
| **KWh** | **£** | **NPV** | **IRR** | **Year 1 tCO2e** |  |
| **Roof Mount Photovoltaic (PV)** | Overcombe Toilets | 996 | £149 | £855 | 5.7 | £1,606 | 17% | 0.3 | 1 |
| Pier Toilets | 3618 | £542 | £3,420 | 6.3 | £5,971 | 16% | 1.0 |
| Swannery Toilets | 3226 | £484 | £2,565 | 5.3 | £5,404 | 19% | 0.9 |
| Lodmoor Toilets | 4726 | £708 | £3,990 | 5.6 | £7,684 | 17% | 1.3 |
| Beach office (Feed to toilets) | 2760 | £414 | £2,280 | 5.5 | £4,538 | 18% | 0.8 |
| Library  (opposite Commercial Rd)  (subject to consent of freehold asset owner) | 17,293 | £2,592 | £19,665 | 7.6 | £23,053 | 12% | 4.8 |
| **Total** | **32,619** | **£4,889** | **£32,775** | **6.7** |  |  | **9.1** |
| **Mitigation Notes**   * Explore potential funding opportunities eg. Low Carbon Dorset Fund. * Further potential projects around using PV to be identified where an agreement with third party building owners providing space for the PV equipment which we install renting the space from them to feed electric to our assets and then we could sell the third party cheaper electric using the cells on their roof space. A potential example of this could be at the Greenhill Bowls Club. | | | | | | | | | |

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| Beach Office – feed underground WC | Overcombe WC | Lodmoor WC |
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| Pier WC | Swannery WC | Library |

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| **Activity** | **Site** | **Size** | **Capital Cost** | **Development Cost** | **Operational Cost (pa)** | **Export Income (pa)** | **Generation (kWh)** | **Simple Payback** | **WTC Priority** |
| **Solar Farm** | Tumbledown | 1MW | £610,000 | £71,600 | £12,750 | £65,000 | 1,252,000 | 13yrs | 2 |
| Ryemead Lane | 563kW | £340,000 | £53,000 | £7,200 | £34,000 | 660,364 | 10yrs |
|  | Park & Ride site – Partnership DC |  |  |  |  |  |  |  |
| **Mitigation Notes**   * Initial conversations with Briar have highlighted that they would be keen to discuss and explore the potential of solar farm technology with the Council. | | | | | | | | | |

**Exported electricity cannot be used to offset residual emissions**

Planning permission would be required.

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| **SCOPE 3 – Emissions resulting from Indirect Operations** | | | |
| Contribution to overall footprint = 1,082.2 tCO2e (92%) | | | |
| **Scope 3 – Contracts** | | | |
| Contribution to overall footprint = 906.5 tCO2e (77%)  83.3% of Scope 3 emissions  Large events are very complex to footprint. The EEIO proxy value gives an initial indication to the overall contribution to the total carbon footprint.  **Table shows all contracts with emissions of 3 tCO2e or above (Highest 30 emissions of 115 contracts) (remaining 85 contracts combined = 66.74 tCO2e).** | | | |
| **Contract Name** | **Description** | **tCO2 e** | **WTC Priority** |
| **EEIO Category – Waste management and remediation services (58.4% of all contractual emissions)** | | | |
| Weymouth Beach Cleansing |  | 390.24 | Discussions with DC and businesses started |
| Beach levelling |  | 17.31 |
| Waste and Recycling |  | 123.73 |
| **Mitigation Notes**   * Current beach cleansing contract has been extended by 12mths until 31/3/2022 this has been done to allow time to review the main contract operations. * Dorset Council / WTC Contract Review to take place in early 2021. | | | |
| **EEIO Category – Nonresidential maintenance and repair services** | | | |
| Maintenance budget |  | 78.13 | Short-term monitoring to gain accuracy |
| **Mitigation Notes**   * Recording a breakdown and analysis of maintenance to understand this budget spend. | | | |
| **Events** - (**EEIO Category - Amusement and recreation industries)** | | | |
| Events & Activities | Fireworks | 23.18 | Event organisers to submit carbon emissions report for each event  Events group to monitor emission data |
| Events & Activities | Armed Forces Celebrations | 8.28 |
| **Mitigation Notes**   * 25/11/20 – Council adopted the new Events & Festival Policy – All events from this point on will adhere to the new policy requirements. * Requirement of all event organisers to work to reduce emissions where practically possible and have mitigation actions in place. * Requirement to undertake an environmental assessment of the event. | | | |
| **Contract Name** | **Description** | **tCO2 e** | **WTC Priority** |
| **EEIO Category - Amusement and recreation industries** | | | |
| WPBC BCH001 20 | Crazy Golf Attraction, Weymouth Beach | 7.01 | Contractor to submit carbon emissions report for operation. |
| WPBC BCH001 14 | Bungee Trampoline Attraction Opposite 57A The Esplanade, Weymouth Beach | 4.94 |
| WPBC BCH001 17 | Swing Boats & Trampolines, Weymouth Beach | 3.95 |
| **Mitigation Notes**   * All of the above licences have expired and will be retendered for the next season. All applications submitted will be required to undertake an environmental assessment of their operation and put in place actions taken to reduce CO2 emissions and have mitigation measures in place to work as green as possible. | | | |
| **EEIO Category - Manufactured products (miscellaneous)** | | | |
| Materials |  | 30.64 | Internal scrutiny of budgets and policy for expenditure |
| Equipment |  | 16.94 |
| **Mitigation Notes**   * Further work to breakdown and analysis budgets to understand purchasing – This will take place over 1 - 2 yrs. * Write sustainability criteria into a procurement policy which will require staff to assess expenditure options with reference to environmental impact. This may require not buying the cheapest option and future budgets will need to take this into consideration. | | | |
| **EEIO Category - Automotive repair and maintenance, except car washes** | | | |
| Vehicle Maintenance/valeting | Parks and open spaces | 19.12 |  |
| **Contract Name** | **Description** | **tCO2 e** | **WTC Priority** |
| **EEIO Category - General and consumer goods rental except video tapes and discs** | | | |
| Beach Equipment Hire | Hire of Deckchairs, Windbreaks and Sunbeds to public | 12.03 | Assessment review |
| **Mitigation Notes**   * This value appears very high as the chairs are only moved twice a year (out from store/back into store) using a vehicle. All movement of chairs following this is conducted using manpower. * Work with Beach Manager to assess the transportation and maintenance of chairs and produce an actual amount for this item. Work to be conducted in year 1 of this plan. | | | |
| **EEIO Category - Food services and drinking places** | | | |
| WPBC CAT009 23 | Dual Servery Kiosk 2, Opposite 41/42 The Esplanade | 11.18 |  |
| WPBC CAT009 22 | Dual Servery Kiosk 1, opposite 61/62 The Esplanade | 10.49 |  |
| WPBC CAT010 08 | Tea Cabin, The Esplanade, Weymouth | 8.33 |  |
| WPBC CAT009 08 | SC3 Refreshment Kiosk Opposite 76 The Esplanade, Weymouth | 6.19 |  |
| WPBC CAT009 13 | SC4 Refreshment Kiosk Opposite Marks & Spencer (58 The Esplanade) | 5.78 |  |
| WPBC CAT009 04 | SC1 Refreshment Kiosk opposite 114 The Esplanade | 4.54 |  |
| WPBC CAT009 05 | SC2 Refreshment Kiosk Opposite Royal Hotel (90 91 The Esplanade),  Weymouth Beach | 4.54 |  |
| WPBC CAT009 01 | Preston Beach Refreshment Kiosk, Greenhill | 4.09 |  |
| WPBC CAT009 02 | BT Refreshment Kiosk Opposite Brunswick Terrace | 3.83 |  |
| **Mitigation Notes**   * In year 1 the Council will be writing to all tenants to request actual utilities meter readings to be able to produce actual figures for these contracts. * Contract review to take place. * All new tenant agreements to have a requirement to undertake an environmental assessment and introduce mitigation measures to reduce CO2 emissions and maximise operational practices to reduce, reuse and recycle. | | | |
| EEIO Category - Wood products (reconstituted) | | | |
| Woodchip |  | 8.93 |  |
| **Mitigation Notes**   * Fuel for the Biomass boiler, if the boiler is not relocated with the Nursery and the boiler sold this will no longer be required. | | | |
| **EEIO Category - Lighting fixtures** | | | |
| Promenade lighting |  | 8.48 |  |
| **Mitigation Notes**   * Costings have been worked out to convert this lighting to LED lighting * To replace the 21 main columns metal halide lamps with LED type lamps is £8550 * To install 21 solar time clocks with a photocell sensor to detect dusk £5250 * To Upgrade 5 mini columns to LED plus time control and photocell £3250 * Total Cost of Works £17500 | | | |
| **Contract Name** | **Description** | **tCO2 e** | **WTC Priority** |
| **EEIO Category - Insurance agencies, brokerages, and related activities** | | | |
| Insurance |  | 5.74 |  |
| **EEIO Category - Toilet preparation** | | | |
| Toilet Consumables |  | 5.16 |  |
| **EEIO Category - Other support services** | | | |
| RNLI Beach Rescue |  | 5.32 |  |
| **EEIO Category - Facilities support services** | | | |
| Cleaning | Beach & commercial road | 3.21 |  |
| **EEIO Category - Business support services** | | | |
| IT support/systems |  | 4.59 |  |
| **EEIO Category - Stationery products** | | | |
| Stationery |  | 3.86 |  |
| **Mitigation Notes**   * All above listed amounts are based on proxy values and are important to give the Council a baseline figure. Taking actions to measure actual amounts will a more accurate position and will allow the Council to monitor annually and understand how to reduce. * All new and renewed contracts will have a sustainability term added to them which will address CO2 emissions and a requirement to assess operations environmentally and put in place mitigation actions to work as sustainably as possible. | | | |

* **Clean & Green to develop a valid system for monitoring reductions in these figures on an annual basis.**

**Potential Mitigation Projects**

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| **Action** | **WTC Priority** |
| Engage with current suppliers/contractors to set GHG emissions criteria for future contracts. (Decisions not solely based on cost/cheapest). |  |
| Sustainable Contracting |  |
| Contractors - Mandatory reporting of scope 1 & 2 emissions |  |
| Suppliers must have emission reduction targets |  |
| Environmental / sustainability standards e.g. ISO 50001 (Energy Management) |  |
| Use of electric vehicles |  |
| Use of the Better Buying Index |  |
| Assess the necessity of certain suppliers/contractors |  |
| Events - Procurement criteria - all organisations/companies involved must produce a carbon report at the end of the contract. |  |

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| **Scope 3 – Leased Buildings** | | |
| Contribution to overall footprint = 109.57 tCO2e (9%)  10.13% of Scope 3 emissions | | |
| **Site Name** | **tCO2e** | **WTC Priority** |
| Greenhill (Seascape Café) | 21.78 | 1  Contact all tenants to get actual data for scope 1 & 2 emissions  Asset review will cover all these sites and indicate any others which should be included. |
| Crookhill Depot (Parks, Open Spaces, Cemetery and Allotment Team) | 20.21 |
| Greenhill Bowling Club | 20.14 |
| Picket House Upper Floor (Used as a social club RAFA) | 16.33 |
| Lookout Café, Bowleaze | 11.89 |
| Old Town Hall, High Street | 9.32 |
| Ryemead Lane Community Centre Wyke Regis | 7.32 |
| Nothe Refreshment Kiosk (café) | 1.98 |
| Underground Stores, Pier Bandstand (Former public Ladies plus Gents toilets) | 0.13 |
| Garages, Melcombe Place (x5) (ELECTRICITY NOW REMOVED) | 0.35 (5 x 0.07) |
| Garages, Rodwell Road (x2) | 0.12 (2 x 0.06) |
| **Mitigation Notes**   * In year 1 the Council will be writing to all tenants to request actual utilities meter readings to be able to produce actual figures for these contracts. * Contract review to take place and sustainability terms added to all contracts. * All new tenant agreements will have a requirement to undertake an environmental assessment of their operation and put in place actions taken to reduce CO2 emissions and have mitigation measures in place to work as green as possible. | | |

**Potential Mitigation Projects**

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| **Action** | **WTC Priority** |
| Retrofitting them with energy efficient measures and leasing them at a premium cost, as well as encouraging energy efficient behaviour and green electricity tariffs from lessees. | As above |
| Building fabric upgrades |
| Electrification of heating (where possible) – Low carbon heating – air source pumps? |
| LED Lighting and controls |
| Building integrated solar PV |  |

**No Direct control over the energy usage.**

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| **Scope 3 - Waste** | | | | | | | |
| Contribution to overall footprint = 10.64 tCO2e (0.9%)  1% of Scope 3 emissions  **Table shows the highest 5 emissions related to waste activities** | | | | | | | |
| **Source Name** | **Waste Terminal** | **Waste Type** | **tCO2e** | **tCO2e Total** | **Mass (kg) / Split** | **Recycling** | **WTC Priority** |
| Weymouth Sands (Rake and Manual Litter Pickers) including all associated Staff, Vehicle, PPE and equipment costs. | Incineration | Municipal | 5.92 | 9.87 | 462,490kg  / 87% | Only 11% waste recycled  UK Recycling target  2020 = 50% 2035 = 65% | 2 |
| Servicing of 26 x 1100l Wheeled seasonal bins Weymouth Promenade | Incineration | Municipal | 3.95 |
| Victoria Street Stores | Incineration | Commercial | 0.18 | 0.28 | 12,809kg  / 2% |
| Commercial Road General Waste Bin | Incineration | Commercial | 0.09 |
| All other Commercial to Incineration (x2) | Incineration | Commercial | 0.0056 |
| Servicing of 3 x Promenade mini glass recycling centres | Recycled | Glass/Cans | 0.44 | 0.44 | 20,605kg  / 4% |
| All Commercial to Recycled activities (x5) | Recycled | Commercial | 0.05 | 0.05 | 36,209kg  / 7% |
| **Mitigation Notes**   * Current beach cleansing contract has been extended by 12mths until 31/3/2022 this has been done to allow time to review the main contract operations. * Dorset Council / WTC Contract Review to take place in early 2021. | | | | | | | |

**Potential Mitigation Projects**

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| **Action** | **WTC Priority** |
| Waste management protocol following the waste hierarchy of Reduce, Reuse, Recycle. |  |

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| **Scope 3 – Water** | | | | |
| Contribution to overall footprint = 12.08 tCO2e (1%)  1.1% of Scope 3 emissions  Toilets = 66.2% (8.00 tCO2e)  Allotments = 15.5% (1.87 tCO2e)  Public Taps & Access Points = 11.6% (1.40 tCO2e)  Other Buildings = 5.6% (0.68 tCO2e)  Table: Water use with 0.5 tCO2e emissions or above (total number of sites = 32) | | | | |
| **Site / Meter** | **tCO2e**  **(Water Supply)**  **(4.08 tCO2e)** | **tCO2e**  **(Water Treatment)**  **(8.00 tCO2e)** | **Total tCO2e**  **(12.08 tCO2e)** | **WTC Priority** |
| Nothe gardens | 0.438 | 0.856 | 1.29 | 2  Replace over time as necessary. |
| Cove Street Toilets | 0.356 | 0.695 | 1.05 |
| Brunswick Terrace Toilets | 0.301 | 0.589 | 0.89 |
| Greenhill WCs | 0.259 | 0.506 | 0.77 |
| Lodmoor Toilets | 0.239 | 0.467 | 0.71 |
| Lodmoor Toilets | 0.226 | 0.441 | 0.67 |
| Gents The Esplanade | 0.231 | 0.452 | 0.68 |
| All other Toilet sites (x5) | 0.594 | 1.160 | 1.75 |
| Green Lane Allotments | 0.256 | 0.501 | 0.76 |
| Sandsfoot Allotments | 0.168 | 0.328 | 0.50 |
| All other Allotments sites (x5) | 0.250 | 0.521 | 0.77 |
| Beach Taps & Café Esp Greenhill | 0.177 | 0.346 | 0.52 |
| Beach Taps opp Kings Statue | 0.177 | 0.346 | 0.52 |
| **Mitigation Notes**   * Senior Buildings Services Engineer has assessed each of the WTC assets and has a plan water maintenance requirements which will help to reduce and manage the emissions related to water useage. | | | | |

**Potential Mitigation Projects**

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| **Action** | **WTC Priority** |
| Install 1Push/automatic taps | As above |
| Install Tap/shower head aerators |
| Install Low flow toilets |
| Install Water butts at allotments |

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| **Scope 3 Business Travel** | | | | |
| Contribution to overall footprint = 1.47 tCO2e (0.1%)  0.1% of Scope 3 emissions | | | | |
| **Type of transport** | **Scope 3**  **tCO2e** | **Scope 3**  **tCO2e (WTT)** | **Total**  **tCO2e** | **WTC Priority** |
| Business Mileage - Average Petrol Car | 1.16 | 0.31 | 1.47 |  |
| **Scope 3 - Commuting** | | | | |
| Contribution to overall footprint = 32.01 tCO2e (2.7%)  3% of Scope 3 emissions | | | | |
| **Transport Type** | **Scope 3**  **tCO2e** | **Scope 3**  **tCO2e (WTT)** | **Total**  **tCO2e** | **WTC Priority** |
| Small petrol car, up to 1.4 litre engine | 8.48 | 2.30 | 10.78 | 3  General officer/member education |
| Small diesel car, up to 1.7 litre or under | 7.31 | 1.74 | 9.05 |
| Medium petrol car, from 1.4 to 2.0 litres | 6.19 | 1.68 | 7.87 |
| Bus average | 2.47 | 0.59 | 3.06 |
| Large petrol cars, above 2.0 litres | 0.87 | 0.24 | 1.11 |
| Medium diesel car, from 1.7 to 2.0 litre | 0.11 | 0.03 | 0.14 |
| Cycle | 0.0 | 0.0 | 0.0 |
| Walk | 0.0 | 0.0 | 0.0 |
| **Mitigation Notes**   * The above data gives a baseline figure based on internal survey responses, the staff survey will be rerun during 2021 which will give a second year to compare. * The survey should be run annually as an easy mechanism to record actual data and provide comparison. * The second survey will be expected to be significantly lower as it will show the impact of a higher percentage of home working due to Covid19 protocols being in place. * Explore future weekly working practices and where appropriate remove the necessity to be office based five days a week moving to a balance of office and home working reducing the amount of journeys needing to be made. | | | | |

**Potential Mitigation Projects**

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| **Action** | **WTC Priority** |
| Encouraging the use of public transport |  |
| Ensure all employees have up to date IT and are able to propose E-working/meetings where possible to reduce travel time |  |
| Purchase of company electric vehicle for business travel |  |
| Reward or financial incentive schemes |  |
| Cycle to work schemes – Allowance scheme? |  |

**Next Steps – Data & Reporting**

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| **Action** | **WTC Priority** |
| Monitor and report carbon emissions on an annual basis - Set up an agreed approach to recording key data to ensure continual assessment of the WTC carbon footprint. | 1 |
| Take measures to improve data accuracy and completeness – Record more exact measurements/readings rather than have to rely on proxy values (BEIS & EEIO) which are broad economic sector estimates and not exact. | 1 |
| Define clearly what the 2030 ‘Net Zero’ ambition means. | 1 |

**Gap to Target**

If all projects were implemented, Weymouth Town Council would need to offset 17.4 tCO2e in 2030 to be carbon neutral (scope 1 & 2 emissions).

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| **Action** | **Description** | **WTC Priority** |
| **Decarbonising Heating** | Undertake a full review of the control systems in place at all premises on a regular basis to ensure systems run at full efficiency (optimise regularly). |  |
| **Mitigation Notes** | | |
| **Tree Planting** | Assuming a typical tree will absorb 10 kgCO 2 every year, the council will need to plant approximately 109 960 trees This equates to a land area of almost 60 acres of woodland that would need to be planted.  (GHG Protocol will releasing guidance and accounting measures in 2021) The Carbon Trust recommend that this is planned as a later measure when guidance is available and clear. |  |
| **Mitigation Notes**   * The Parks & Open Spaces Manager is currently researching, reviewing and rewriting the Council’s Tree Planting Policy which will highlight how WTC can maximise the number of trees it can plant within the town boundary area. The plan will be brought forward during 2021. * The review of the current policy is required as the Council will not be in a position to deliver what it could when they were part of the Dorset Councils Partnership, because it will not have access to the same amount of land. | | |
| **Green Energy Suppliers** | Location based approach vs a market based approach  A location based approach is used as the formal reporting method and uses an emission factor based on all generating supplies of electricity to the grid. A market based approach is where the consumer purchases their electricity from a ‘green supplier’.  Under a market based approach a consumer can offset their entire scope 2  emissions, by simply ensuring they purchase electricity from a ‘ green supplier that  offers a 100 renewable tariff. |  |
| **Mitigation Notes**   * The Council current purchases electricity from a green supplier, contact supplier to understand if what the level of the current supply is and if it is not 100% research the market to compare what other 100% renewable supply deals are available. | | |
| **Carbon Off setting** | Projects such as tree planting, biodiversity restoration, international renewable installation. Engaging with the offsetting provider is recommended to ensure the scheme you purchase in to matches your expectations and social values. it should be taken as a last resort once all other feasible carbon reduction measures have been carried out.  https:://www goldstandard org/ (Offsets can range in price, typically $10 - 20 per tCO2e) |  |