Appendix 3 Carbon Impact Assessment

| | Impact | If an impact or potential impacts are identified | | | | | |
|----------------------------|-----------|--|------------------------------|---------------------------|----------------------|--|--|
| Will the decision/proposal | | Describe impacts or | , | | Outline any | | |
| | | potential impacts on | Describe impact or potential | | monitoring of | | |
| impact | | emissions from the | impacts on emissions | | emission impacts | | |
| | | Council and its | across Rotherham as a | Describe any measures to | that will be carried | | |
| | | contractors. | whole. | mitigate emission impacts | out | | |
| | Reduces | PV output will directly | Reduction | - | Output will be | | |
| | emissions | reduce carbon emissions | | | monitored and | | |
| Emissions from | | within operational estate | | | recorded. | | |
| non-domestic | | by up to 40 Tonnes CO2 | | | | | |
| buildings? | | PA over 40 year lifespan. | | | | | |
| | Reduces | Project will encourage and | Reduction | | Amount of EV | | |
| | emissions | enable conversion to EV. | | | Charging will be | | |
| | | Saving 202 Tonnes CO2 | | | monitored and | | |
| | | (year 1 estimate). | | | recorded. | | |
| | | | | | | | |
| | | Some increased carbon | | Transport will be | Contractors will be | | |
| Emissions from | | emissions during | | minimised during | required to report | | |
| transport? | | construction phase. | | construction phase. | project emissions. | | |
| u.d.roportr | No | - | - | - | - | | |
| Emissions from | impact | | | | | | |
| waste, or the | · | | | | | | |
| quantity of waste | | | | | | | |
| itself? | | | | | | | |
| | No | - | - | - | - | | |
| | impact | | | | | | |
| Emissions from | | | | | | | |
| housing and | | | | | | | |
| domestic buildings? | | | | | | | |

| Emissions from construction and/or development? | Impact unknown | There will be minimal impact during the installation phase. | Minimal | Contractors will reduce emissions and environmental impact where possible. | Liaison with Council officers will include monitoring of activities to ensure minimal impact. |
|---|-------------------|---|---------|--|---|
| | Nil | - | - | - | - |
| | | | | | |
| | | | | | |
| Carbon capture | | | | | |
| (e.g. through trees)? | | | | | |

Identify any emission impacts associated with this decision that have not been covered by the above fields: Encouraging and enabling transition to Electric Vehicles (EV) will also reduce NOx emissions.

Please provide a summary of all impacts and mitigation/monitoring measures:

Conversion of fossil fuelled transport to EV has a direct impact on local CO2 emissions and is even greater when on-site generation from PV is available.

Output from PV will be measured and recorded, along with how it is utilised both for EV Charging and in the Council operational estate.

Electricity used for EV Charging will be measured and reported using the Charge Point Management System (CPMS).

In each case established conversion factors will be applied for carbon reporting purposes.

| Supporting information: | |
|--|---|
| Completed by: | Andy Wilson, Energy Efficiency Officer, Asset Management Service, Regeneration |
| (Name, title, and service area/directorate). | and Environment |
| | |
| Please outline any research, data, or information used | Experience of delivering and managing existing solar PV installations, EV |
| to complete this [form]. | ChargePoint installations, and combined EV / PV installations within the existing |
| | operational estate. |

| If quantities of emissions are relevant to and have been used in this form, please identify which conversion factors have been used to quantify impacts. | s form, please identify which conversion Tonnes of Carbon per year. | | | | | |
|--|---|-----------------|------|------|------------------------|--|
| | Activity | Country | Unit | Year | Total kg CO₂e per unit | |
| | Electricity generated | Electricity: UK | kWh | 2022 | 0.19338 | |
| | CO2 Savings through conversion to EV calculated as follows: | | | | ws: | |
| | * Assumes fuel mix 50% petrol, 50% diesel | | | | | |
| | *Usage 1kWh = 5km (3.1miles) | | | | | |
| | *Average CO2 emission diesel: 160g/km | | | | | |
| | *Average CO2 emission petrol: 173g/Km | | | | | |
| | Source: Shell Recharge | | | | | |
| Tracking [to be completed by Policy Support / Climate Champions] | | | | | | |