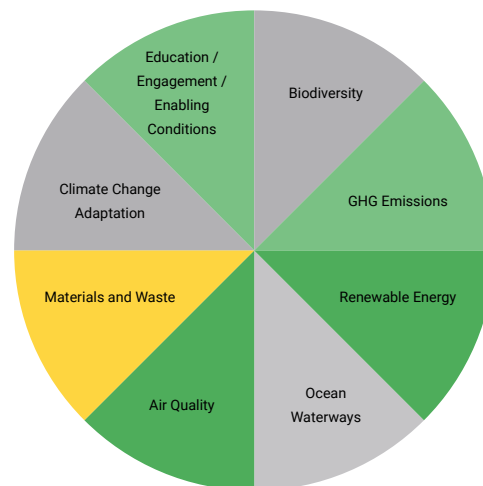


# Flush Fitting EV Chargers FINAL



**Assessment ID:** FLU382

**Assessment Author:** Iain Miller

## Assessment Project Summary:

Following a successful trial of flush fitting Electric Vehicle (EV) chargers in Plymouth City Centre we have an opportunity to use the infrastructure that was installed. Under normal circumstances the installation of such charge points, which require grid connectivity, would not be commercially viable and a charge point operator (CPO) would require a public subsidy before they would consider installing them. However, as we have the existing grid connections in place the decommissioned sites can be re-used and CPOs are interested without any public contribution.

## Assessment Final Summary:

The driver for this project is to reduce city emissions. It will have a very positive impact for the environment, aiding the transition from petrol and diesel to electric vehicles. Carbon emissions will be reduced and air quality improved. Whilst there will be very marginal impacts to waste as charge points reach end of life, these will be more than off-set with the positive outcomes of the transition to cleaner energy.

## Biodiversity Score: 3

**Biodiversity Score Justification:** The EV infrastructure will be installed into existing grid connection holes. These are all in pavements which will have no impact to any nearby vegetation or other biodiversity.

**Biodiversity Score Mitigate:** No

## GHG Emissions Score: 5

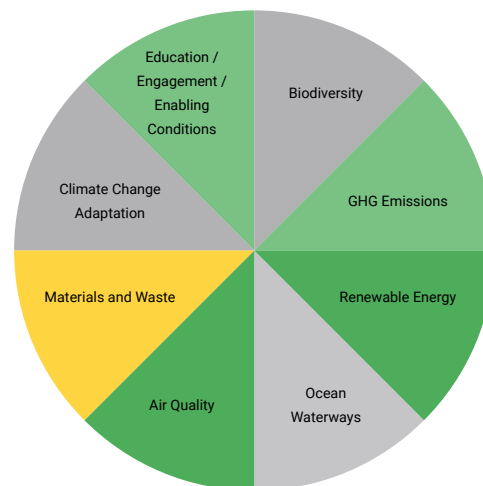
**GHG Emissions Score Justification:** The rollout of EV infrastructure is to support the transition from ICE vehicles to EVs. This will result in cleaner energy being used over the long term as petrol and diesel is replaced with electricity as the fuel for cars.

**GHG Emissions Score Mitigate:** No

## Renewable Energy Score: 5

**Renewable Energy Score Justification:** The EV chargers will predominately or exclusively

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take electricity from the grid, so the benefits are partially dependent on the decarbonisation of the grid. However, as grid electricity is already more renewable than petrol and diesel there will be an immediate benefit and even greater long term benefits.

**Renewable Energy Score Mitigate:** No

**Ocean and Waterways Score:** 3

**Ocean and Waterways Score Justification:** The project will have no or minimal impact on water.

**Ocean and Waterways Score Mitigate:** No

**Air Quality Score:** 5

**Air Quality Score Justification:** As the project supports the transition from ICE vehicles to EVs, the air quality will be improved.

**Air Quality Score Mitigate:** No

**Materials and Waste Score:** 2

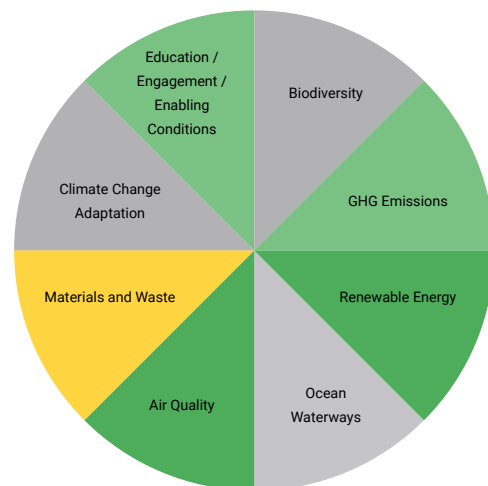
**Materials and Waste Score Justification:** As with any construction project there will inevitably be some waste, both during the installation of the EV charge points and when the EV charge points reach their end of life. The installation process will produce no or minimal waste as the grid connection infrastructure is already in place and only the new chargers can be installed without creating further waste. Requirements for end of life treatment have been documented in the procurement process and will form part of the tender review.

**Materials and Waste Score Mitigate:** Yes

**Materials and Waste Revised Score:** 2

**Materials and Waste Revised Score Justification:** The score remains the same. Waste will be limited to the end of life management and kept to a minimum by holding the supplier to account.

# Flush Fitting EV Chargers FINAL



However we cannot raise to a no impact or neutral impact as there may still be some waste as charge points reach end of life.

## Climate Change Adaptation Score: 3

**Climate Change Adaptation Score Justification:** Site assessments for the installation of EV charge points will take into account flood risk. No EV charge points will be installed where there is a significant risk of water build up.

**Climate Change Adaptation Score Mitigate:** No

## Education / Engagement / Enabling Conditions Score: 5

**Education / Engagement / Enabling Conditions Score Justification:** This project will include a public consultation and engagement phase. During this time information will be provided to residents to educate them on the transition to EVs. It will aim to address any concerns they have with EVs, providing re-assurance and guidance.

**Education / Engagement / Enabling Conditions Score Mitigate:** No

### Wheel Key

- Long lasting or severe negative impact
- Short term or limited negative impact
- No impact or neutral impact
- Short term or limited positive impact
- Long lasting or extensive positive impact