

# Waste Prevention Benefits Calculator



Tool for Local Authority waste prevention decision making:

The *Waste Prevention Benefits Calculator* enables Local Authorities to assess the impact of their waste prevention actions in tonnage, carbon and cost terms.

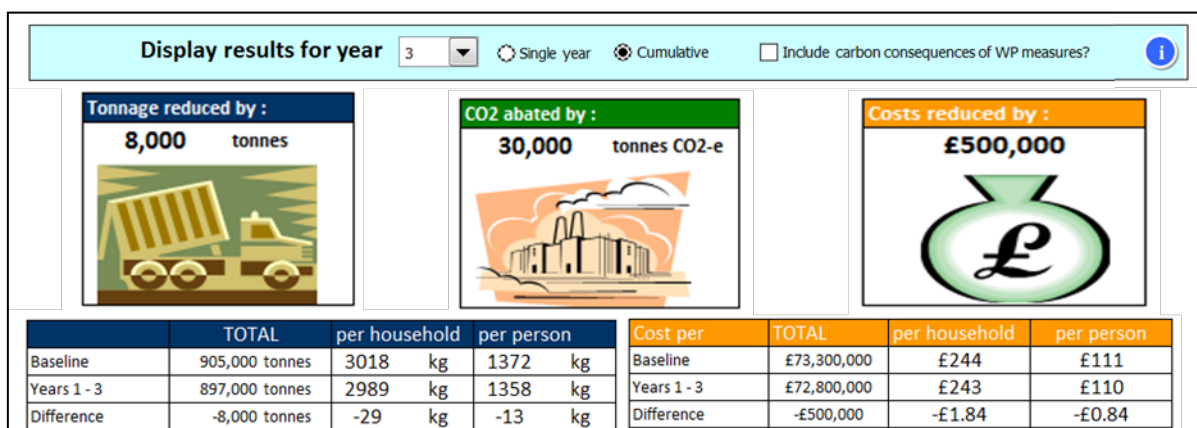
Developed by a consortium of 15 Local Authorities with Defra and WRAP in conjunction with CIWM and the Local Authority Recycling Advisory Committee (LARAC), the *Waste Prevention Benefits Calculator* draws on the latest data and research to enable Local Authorities to evaluate the costs and benefits of waste prevention initiatives in their local context.

## Benefits

- Enables assessment of the costs and benefits of waste prevention initiatives when developing prevention plans
- Prepared by local authorities for local authority use
- Provides a coherent framework for data collection
- Easily bespoke to specific circumstances
- Peer reviewed

## What does the tool do?

1. The *Waste Prevention Benefits Calculator* compares the cost and carbon impacts associated with a local authority's waste management system with the cost and impacts when waste prevention schemes are implemented.
2. It's a stand-alone Excel-based tool and comes pre-populated with default data relevant to a typical sized authority and campaigns representative of current best practice.
3. Users are able to tailor data for specific local initiatives and circumstances and define their own local tonnage and waste composition, costs and reduction targets.
4. Results are presented in a mixture of 'headline' metrics and detailed trend-type analysis, supported by charts and tables which can be drilled into to provide the necessary levels of detail for decision making.
5. Outputs can also be exported directly to Microsoft Powerpoint for presentation or inclusion in reports.





The *Waste Prevention Benefits Calculator* has been developed since 2011 as a consortium project, and continues to be developed and enhanced under the guidance of the Local Authority-led Steering Group with Defra and WRAP.

### Annual subscription

The *Waste Prevention Benefits Calculator* is available to Local Authorities on an annual subscription basis.

The subscription fee is £450 (excluding VAT) and will result in:

- supply of the present version of the tool;
- the right to use the tool for a single entity; and
- on-line support in the set-up and use of the tool.

### Consortium Membership

Local Authorities are also invited to join the consortium to benefit from the work being undertaken and to enable the continued development of the tool.

Memberships are levied at a one-off subscription fee of £5,000 (excluding VAT) and will result in:

- supply of the present version of the tool, with file-sharing capability;
- supply of future versions of the local authority tool as they develop;
- an amount (approximately equal to 20% of the contribution) of support from ERM in using the tool;
- right to use the tool for a single entity;
- right to attend Steering Group meetings as a non-voting partner; and

- access to the project's on-line forum for discussion and networking.

### Local Authority feedback

*"Using the Waste Prevention Benefits Calculator allowed us to gain an estimate of the CO<sub>2</sub>e abatement benefits of carrying out our food waste prevention campaigns. The ability to estimate such benefits has not previously been possible and using the tool will aid in the justification for continuing investment in waste prevention schemes."*

### Case Studies

A series of case studies are being developed by Partner local authorities summarising the outcome of their waste prevention initiatives as evaluated using the *Waste Prevention Benefits Calculator*. These will be published periodically and are available on request.

### Contact Information

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| Name of Local Authority                        | Example |
|--|---------|
| Municipal waste arising per annum (tonnes)     | 300,000 |
| Number of households                           | 300,000 |
| Population                                     | 660,000 |
| Start year                                     | 2012    |
| Annual population increase (%)                 | 0.6%    |
| Annual change in individual waste arisings (%) | 0.0%    |
| Background yearly waste growth rate (%)        | 0.6%    |

**Reset all values to defaults**

Use default values for...

|  |  |
|--|--|
| <input checked="" type="checkbox"/> Waste composition                  | <input checked="" type="checkbox"/> Collection distances |
| <input checked="" type="checkbox"/> Percentages sent to each treatment | <input checked="" type="checkbox"/> Collection costs     |
| <input checked="" type="checkbox"/> Collection types                   | <input checked="" type="checkbox"/> Treatment costs      |

**Is equivalent to ...**

|                                     |
|-------------------------------------|
| 1.00 tonnes of waste per household  |
| 0.45 tonnes of waste per inhabitant |

**Predicted Baseline Waste Arisings**