

# Cutting carbon emissions from construction

## by on-site waste treatment

The UK has adopted ambitious targets for reducing carbon emissions, coupled with 'financial incentives' (taxes) for business to shift towards lower-carbon methods for transport and construction. Fuel prices will carry on rising and the cost of all road haulage will grow, so the only way to cut costs and carbon emissions significantly is to avoid the need to transport material wherever possible.

Construction materials have to be delivered to site, so the removal of waste is the prime target for savings. By careful planning and preparing a Site Waste Management Plan, which is compulsory for most larger projects, the waste of materials and transporting of waste can be reduced. Unsuitable soil is the biggest potential source of waste on most sites.

Japanese Knotweed affects many construction sites and as anyone who has excavated knotweed will know, even a small stand of the plant infests a huge volume of soil. If this is removed to landfill, the carbon footprint of the project can shoot up, especially as only specially-designated landfills can accept Japanese Knotweed. Treating knotweed on site is clearly the better alternative but effective eradication with herbicide takes several years – longer than most projects can afford. Fortunately there is a rapid alternative which gives full eradication in a few weeks without removing the soil from site.

The Klaro process allows infested soils to be treated and replaced in the void, saving most of the carbon emissions (0.132kg CO<sub>2</sub> per tonne-kilometre\*) and all the traffic disturbance associated with HGV transport. As these examples show, the savings for just one site can be substantial:

- Stratford E15: 6000m<sup>3</sup> of infested spoil processed, saving 51 tonnes of CO<sub>2</sub>
- Bridgend, S Wales: 800m<sup>3</sup> of infested spoil processed, saving 2.5t CO<sub>2</sub> (local tip)
- Barrow in Furness: 3250m<sup>3</sup> of infested spoil processed, saving 65t CO<sub>2</sub> (100mile to tip)
- Cardiff: 5200m<sup>3</sup> of infested spoil processed, saving 20t CO<sub>2</sub>

\* Environment Agency carbon calculator available at <http://www.environment-agency.gov.uk/business/sectors/37543.aspx>



Japanese Knotweed...  
Instantly eradicated..  
No landfill cost.

**Klaro**® instantly eradicates all knotweed on site giving you processed material immediately ready for re-use.

- Reduce carbon footprint of project
- Avoid landfill tax - gain Land Remediation Tax Credits
- EA mobile Waste Treatment Licence
- Full warranty available
- 9 year 100% success record
- Sustainable and environmentally friendly; helps
- BREEAM & CEEQUAL credits



**Klaro**®  
Instant Knotweed eradication

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