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www.sustainit.org

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Specification  
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# Sustainable Landscape CPD

43 Topics available from NGS GreenSpec

- ## Landscape Agency
- Hard landscape - Environmental Best Practice
  - Biodiversity maintenance and enhancement, Initial Site Strip
  - Brown Roofs, Brownfield Landscape
  - Reclaimed and Reused Landscape Products
  - Recycled Landscape Products
  - Site Autonomy No export nor import of materials
  - Case Studies: Gunpowder Park Lee Valley
  - Insitu Remediation  
Mechanical/Chemical/Biological/Agricultural
  - Wild Turf
  - Recycling Organics & Compost
  - Groundwater, SUDS, re-use of grey water in the landscape
  - Maximising the potential for Biodiversity.



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## From Global Imperative To Landscape Materials



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## Sustainability Definitions

Economic + Environmental + Social



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## Route to the Future

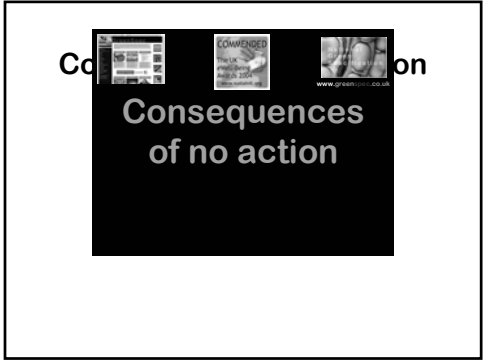
Forum for the Future



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## Are you Green or Violet?



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## Consequences of no action



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## Sustainability best practice for Landscape Architects



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## Hard Landscape Environmental Best Practice

Hard landscape Specification - Environmental Best Practice?



Sustainability

**NGS GreenSpec Sustainability Checklist**

Q10 – Q50 Landscape



**NGS GreenSpec & Eco Landscape**

Some Joined up thinking from  
Brian Murphy BSc Dip Arch (Hons+Dist)  
& Sandy Patience RIBA



**Waste Hierarchy**

Ideals & reality  
How many Rs in Recycling?  
42 Rs so far



**Other Hierarchies**

Run down areas, Brownfield sites,  
Remediate fill sites, Existing Buildings,  
Demolition, Landscape, New-build



**Biodiversity retention enhancement**

Biodiversity, Eco-Landscape  
Landscape Waste management



**Waste: Site Autonomy**

Landscape Waste Minimisation



**Wild Turf**

Reuses on site and off



**F23 Hedgebank Walls**

Bolders, Soil, Turf mortar and Hedging



**Useful Websites**


Waste, Exchange, Recycled, Local  
& Green Construction Product  
Websites



**Welcome to NGS GreenSpec**  
2004 Leaflet  
Global Issues, Government & NGS Response



**Reclaimed & Reused (not recycled)**  
Construction Products & Materials



**Specifying Reclaim & Reuse**



**Recycling in Landscape**  
On site Recycling and use of Recycled Landscape Products



**Recycled Construction Products & Materials**  
Recycled Upcycled Downcycled



**EnviroBlock**  
Baled Recycled Rubber Tyres  
Civil Engineering Component  
Landscape Component






**Recovery: Organic Waste**  
Initial Site Strip  
Onsite Composting  
Community Composting



**Reclaiming Land**  
Brownfield sites brought back into use with benefits



**Insitu Site Remediation**  
Insitu Mechanical Chemical Biological  
Agricultural Remediation

Cas    Park

**Case Study:**  
**Gunpowder Park**  
**Ecological Land**  
**Reclamation**

Lee Valley Regional Park: Gunpowder Park  
 Derelict Polluted Land, 110 acre Park & Nature Reserve  
 New Field & Arts Centre, Completed 2004/5

Wa    gn

**Waste Reduction**  
**@ Design:Diagrams**

Easy steps to reduce your share  
 of the 90 m tonnes of construction and  
 demolition waste each year

10022007 19:33 © NGS 2002-2006 Waste At Design Diagrams 1

Land    ation

**Landscape**  
**waste**  
**minimisation**

Site Autonomy  
 Green Waste Composting

© NGS 2004-6 Brian Murphy

**SWaMPs**  
 (Sumps in Welsh)

Site Waste Management Plan  
 Workshop & Checklist & Datasheet

**Resource Recovery**  
**New Goods in**  
**Waste Segregation**  
**Distribution Centres**

Receiving recovered resources from projects  
 Sorting materials for site's daily requirements  
 Feeding Site(s) with resources, collecting waste

Na    ds

**Natural**  
**Swimming Ponds**

Swimming with frogs  
 J44 Sheet brings for pools/lakes/waterways  
 S15 Fountains and Water Features  
 S21 Swimming pool treatment

Pa    te




**Pallets in**  
**Landscape waste**  
**minimisation**

Pallet in Composting

Leg    ber

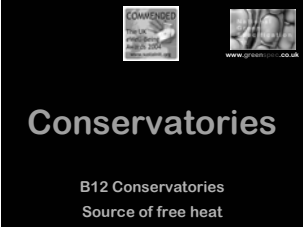
**Legal &**  
**Sustainable**  
**Timber**

Issues  
 NGS GreenSpec  
 Green Building Specification Z10  
 Certification & Suppliers

**CITES**

Convention for International Trade in  
 Endangered Species



**Conservatories**

B12 Conservatories  
Source of free heat



**Gabions Trapions & Matresses**

D41 Crib walls/Gabions/Reinforced earth  
Construction & Materials



**Street Furniture**

Q50 Street Furniture



**Efficient Lighting**

V21 General Lighting  
V41 Street/Area/Flood Lighting  
V42 Arena Lighting




**Sustainable Communities**

© ODPM March 2005



**Community Consultation & Participation**

The Good, the Bad and the Ugly



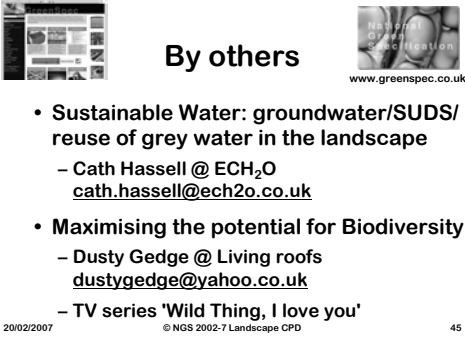
**Green Grids**

Peterborough's Green Wheel, Parks, Lakes,  
Mile End Park



**Flood Defence & Managed Retreat**

Global Warming  
Increased Rain and River Flooding  
Rising Sea Level & Coastal Erosion  
Riverbank & Coastal Defence



**By others**

- Sustainable Water: groundwater/SUDS/ reuse of grey water in the landscape
  - Cath Hassell @ ECH<sub>2</sub>O  
[cath.hassell@ech2o.co.uk](mailto:cath.hassell@ech2o.co.uk)
- Maximising the potential for Biodiversity
  - Dusty Gedge @ Living roofs  
[dustygedge@yahoo.co.uk](mailto:dustygedge@yahoo.co.uk)
  - TV series 'Wild Thing, I love you'

20/02/2007 © NGS 2002-7 Landscape CPD 45

**By Others**

- Sustainable Land Management
  - Dave Stanley [ethree@globalnet.co.uk](mailto:ethree@globalnet.co.uk)
- Landscape Estate & Grounds Management
- Natural Swimming ponds
  - Michael Littlewood
- BioEngineering not Civil Engineering
  - Michael Littlewood