

Greening Your Business

Why? What? How?

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A quick question ...



What is the carbon footprint of your business,
and are you carbon positive, carbon neutral or
carbon negative?

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Objectives

By the end of this session you will know . . .

- ❑ What 'greening your business' is and why you should do it
- ❑ How to go about it

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Part 1: Why?



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It's good for the planet

Wikipedia's list of environmental subjects:

Climate change; Conservation; Energy ; Air pollution;
Environmental degradation; Environmental health;
Intensive farming; Land degradation; Soil; Land use ; Toxins;
Nuclear issues; Overpopulation; Ozone depletion; Pollution;
Water pollution; Reservoirs; Resource depletion;
Consumerism; Fishing; Logging; Mining; Waste

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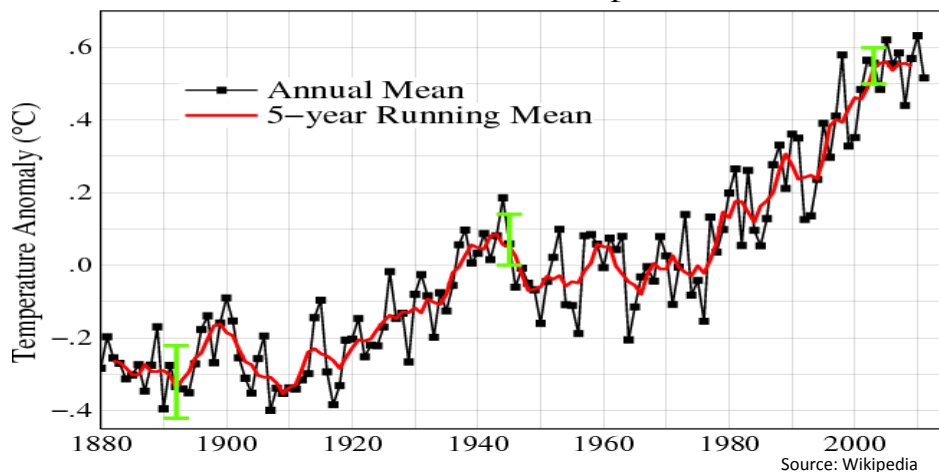


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It's good for the planet

Global Land–Ocean Temperature Index



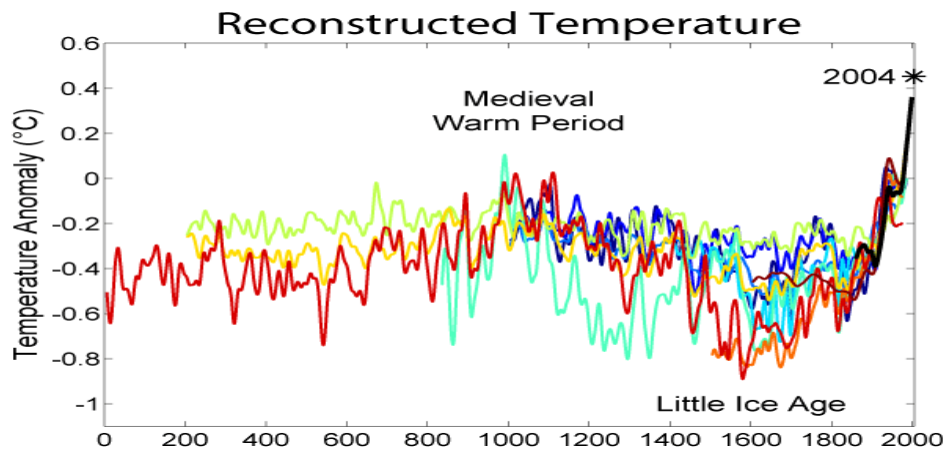
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It's good for the planet



Source: Wikipedia

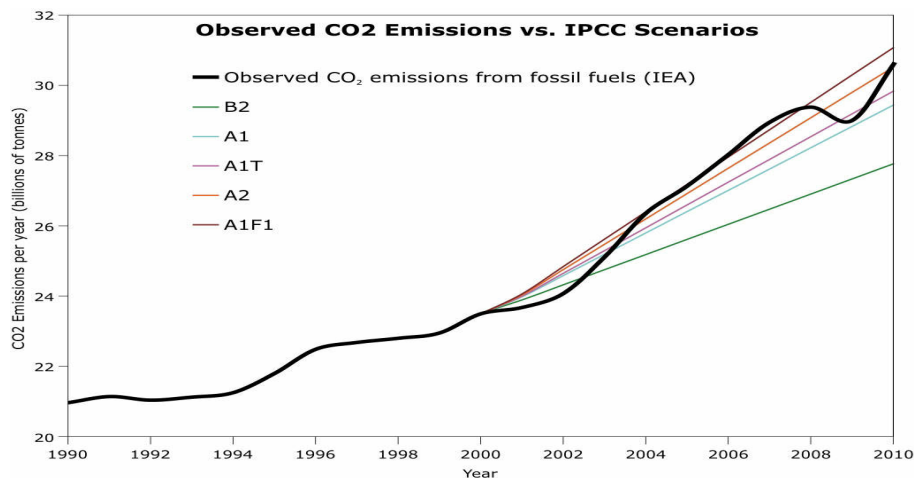
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Source: Wikipedia

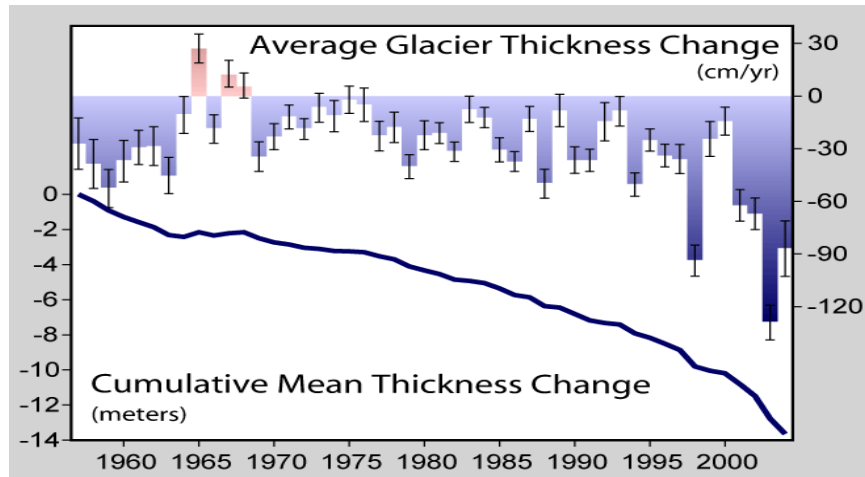
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It's good for St. Helena



Source: Wikipedia

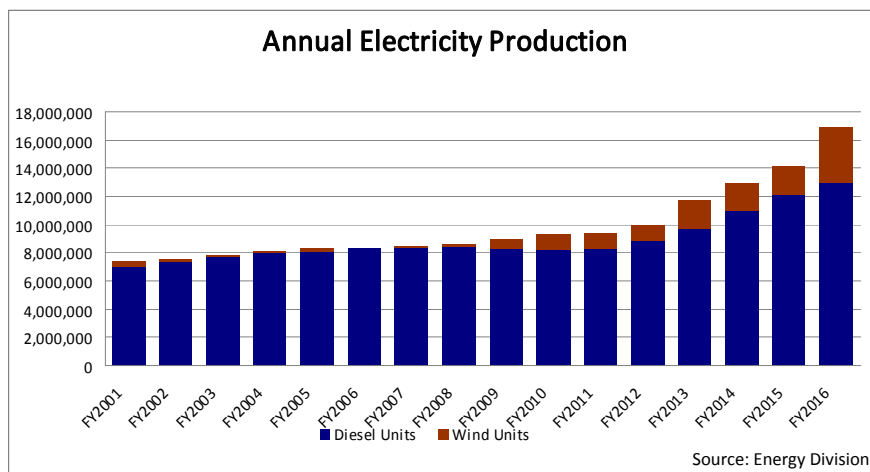
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It's good for St. Helena



Source: Energy Division

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It's good for St. Helena

Car batteries going into landfill

- Long-term exposure to even tiny amounts of Lead compounds can cause brain and kidney damage, hearing impairment, and learning problems in children.
- In the United States, about 97% of lead from used batteries is reclaimed for recycling. Here it is ZERO%

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It's good for St. Helena

Car tyres

- Use as planters
- Use as formers for bank construction
- Shred and use to make a play surface
- **A business opportunity?**

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SHELCO wants it!

During its 2012 visit the Shelco team clearly stated that prospective suppliers of goods and services to its planned resort complex will need to **demonstrate** that they too are green to be considered for selection.

And so will others . . .

We can assume that if Shelco has the greenest hotel on the planet, all the other developers will follow suit

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Part 2: What?

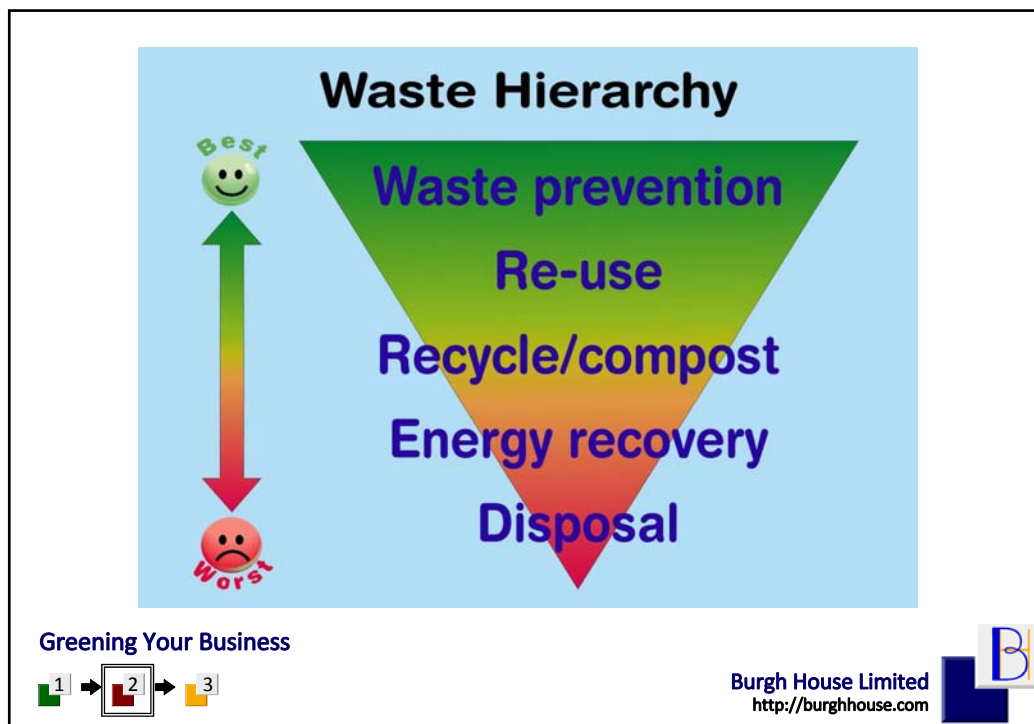


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Waste Hierarchy

The aim of the waste hierarchy is to extract the maximum practical benefits from products and to generate the minimum amount of waste.

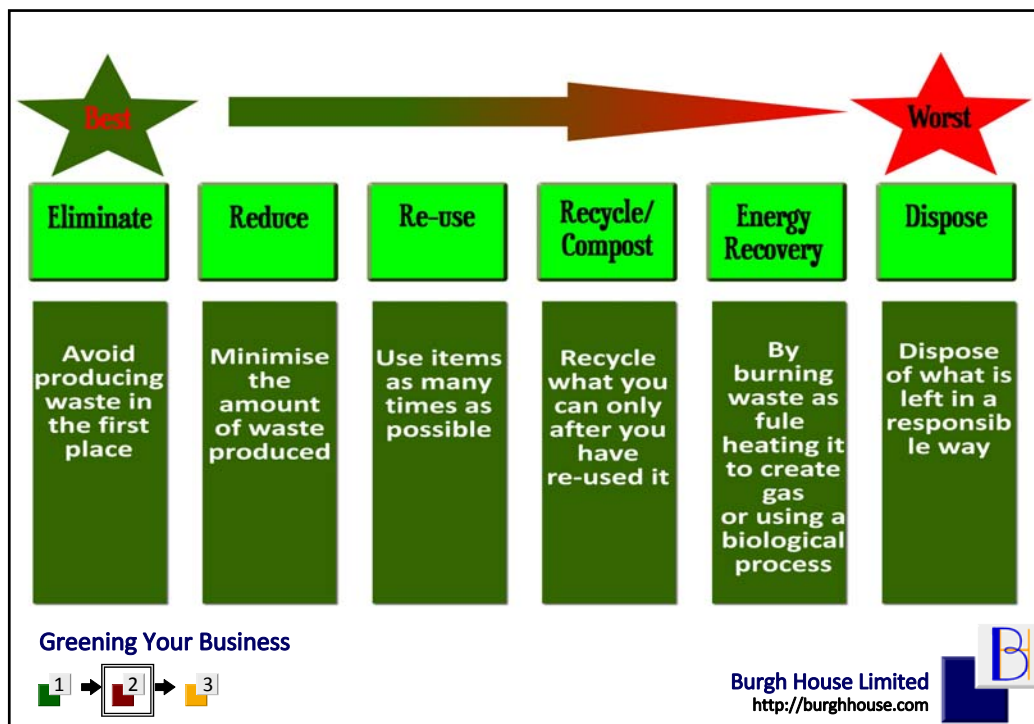


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Energy

Waste Prevention

- Energy saving bulbs, equipment, tools
- Time switches
- Switch off - not standby

Re-use

- Do other things at the same time
- Fill oven


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1 → 2 → 3

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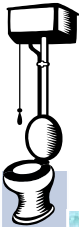
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Water




Reduce

- Use less
- Fix drips
- Fill washing machines
- Collect Rainwater For gardening




Re-use

- Use dirty water to flush toilets
- Water gardens



Recycle


- UV filters
- Drain to reed beds




Recover

- Collect rainwater runoff from roofs
- Dew in poly tunnels


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Materials

| | Paper and Card | Food | Garden Waste | Textiles | Wood | Glass | Metals | Plastics ^a | WEEE | Tyres | Residual 'black bag' |
|---|--|--|--|------------|--|-------------------------------|-----------------|---|---|--|--|
|  <p>Most environmental benefit</p> | Prevention | Prevention | Prevention | Prevention | Prevention | Prevention | Prevention | Prevention | Prevention | Prevention | Prevention |
| | Re-use | | | Re-use | Re-use | Re-use | Re-use | Re-use | Re-use | Re-treading | |
| | Recycling | Anaerobic Digestion | Anaerobic Digestion | Recycling | Recycling; energy recovery ♦ (preferable to recycling for lower grade materials) | Recycling in a remelt process | Recycling | Closed loop recycling | Recycling (esp. suitable for metals and high quality plastic) | Closed loop recycling & use in road surfaces | |
| | Energy recovery ♦ (esp. suitable for short fibres or contaminated materials) | Composting; other energy recovery technologies | Composting; other energy recovery technologies | | | Other recycling | Other recycling | Energy recovery ♦ (esp. suitable for non-hazardous mixed plastic) | Energy recovery ♦ (esp. suitable for non-hazardous mixed plastic) | Energy recovery through pyrolysis | Solid recovered fuel derived from MHT or MBT, where it replaces coal |
| | Landfill | Landfill | Landfill | Landfill | Landfill | Landfill | Landfill | Landfill | Landfill | Landfill | Landfill |

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Carbon Footprint

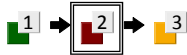
A **carbon footprint** has historically been defined as:

- “The total set of greenhouse gas (GHG) emissions caused by an organization, event, product or person”
- “A measure of the total amount of carbon dioxide (CO₂) and methane (CH₄) emissions of a defined population, system or activity”

Greenhouse gases can be emitted through

- Transport (food miles)
- land clearance (de-forestation)
- production and consumption of food, fuels, manufactured goods, materials, wood, roads, buildings, and services.

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Carbon Footprint

- Reduce
 - Recycled products
 - Fuel efficient vehicles
 - Alternative energy
- Mitigate
 - Plant trees
 - Solar energy
 - Wind power
 - Carbon Capture



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Pollution

- Emissions – Exhaust, smoke, particulates
- Water – Run off, chemicals
- Rubbish – litter land fill
- Noise
- Light



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Guarantees
a **better deal**
for Third World
Producers



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Part 3: How?



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Four easy(!) steps

1. Split your business up into its component operations
2. Assess the 'greenness' of each
3. Define improvements
4. Categorise them into
 - Do immediately
 - Do later – natural replacement
 - Do later – planned replacement

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Revisit: Objectives

You should now know . . .

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Questions?

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