Creatively green

Interesting ideas and technological solutions that might inspire and encourage new thinking

A quick google search

<table>
<thead>
<tr>
<th>Term</th>
<th>Count</th>
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<tbody>
<tr>
<td>Green</td>
<td>3,800,000,000</td>
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<tr>
<td>Climate change</td>
<td>130,000,000</td>
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<td>Green technology</td>
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<td>Environmental design</td>
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<td>Sustainable design</td>
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<tr>
<td>ES building design</td>
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<td>ESD</td>
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@ 1 minute per page

3.196 years
What might it cost?

Global cost curve for greenhouse-gas abatement measures beyond ‘business as usual’; greenhouse gases measured in GtCO$_2$e

- Approximate abatement required beyond ‘business as usual,’ 2030

- Carbon, capture, and storage (CCS); new coal
- Medium-cost forestation
- Cofiring biomass
- Wind; low penetration
- Industrial feedstock substitution
- CCS, enhanced oil recovery, new coal
- Low-cost forestation
- Livestock
- Nuclear
- Industrial non-CO$_2$
- Standby losses
- Sugarcane biofuel
- Fuel efficiency in vehicles
- Water heating
- Air-conditioning
- Lighting systems
- Fuel efficiency in commercial vehicles

Further potential

Marginal cost

Abatement beyond ‘business as usual,’ GtCO$_2$e per year in 2030

- 550 ppm
- 450 ppm
- 400 ppm

- ~25
- ~40
- ~50
“Pixel” is Grocon’s 6 star “greenstar” rated building concept to see how far the idea could be taken.
Replas recycles cellulose waste (wood fibre) and plastic to make a new material that can be used for external use, does not require painting and is UV stable.
Transition towns

• Things Transition Towns do:
  • Organise working bees to set up food gardens
  • Car pool
  • School walking buses
  • Start food co-ops
  • Seed save
  • Care for neighbours
  • Hold street parties
  • Welcome people to the neighbourhood
  • Plant food trees on public land
  • Set up community compost centres
  • Community supported agriculture
  • Rain water tank bulk buys
  • Solar and wind energy bulk buys
  • Electric bike bulk buys
  • Dried organic food bulk buys
  • Publish ‘buy local’ guides
  • Run soil workshops
  • Set up Transition sections in public libraries

  “We truly don’t know if this will work. Transition is a social experiment on a massive scale. What we are convinced of is this: if we wait for the governments, it’ll be too little, too late; if we act as individuals, it’ll be too little; but if we act as communities, it might just be enough, just in time.”
Vertical city farming

CAPITAL BUDGET

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
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<tbody>
<tr>
<td>Building Construction</td>
<td>$36,162,000</td>
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<tr>
<td>Land Acquisition</td>
<td>$597,272</td>
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<tr>
<td>Geothermal System</td>
<td>$1,200,000</td>
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<tr>
<td>Air Handling Unit</td>
<td>$100,000</td>
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<tr>
<td>Dehumidifiers</td>
<td>$240,000</td>
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<tr>
<td>Living Machine*</td>
<td>$400,000</td>
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<tr>
<td>Growth Chambers</td>
<td>$30,000</td>
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<tr>
<td>Anaerobic Digester System</td>
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<td>Jenbacher Gas Engines</td>
<td>$4,078,750</td>
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<td>Water Pumps</td>
<td>$7,500</td>
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<td>Hydroponic System</td>
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<td>Working Capital</td>
<td>$9,121,552</td>
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<td>Contingency Allowance</td>
<td>$9,121,552</td>
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<td><strong>TOTAL</strong></td>
<td><strong>$109,458,626</strong></td>
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</table>
Big Belly solar powered urban waste system monitors and compacts the contents of public waste bins and advises city councils when to collect, thus saving huge transport charges.
Stop thinking of things as waste. Start thinking of them as if they were a new resource
No-one wants to live in a house that looks like Darth Vader’s fridge.
Don’t bury your head in the sand, take responsibility and action
William Yuan is a 13ypo schoolboy who, though the encouragement of science education in his school, invented a new type of photovoltaic panel, earning a $25,000 prize and the chance to develop this commercially.
God has not intended man to imitate blindly his fathers and ancestors... each soul must seek intelligently and independently.