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Carbon Abatement

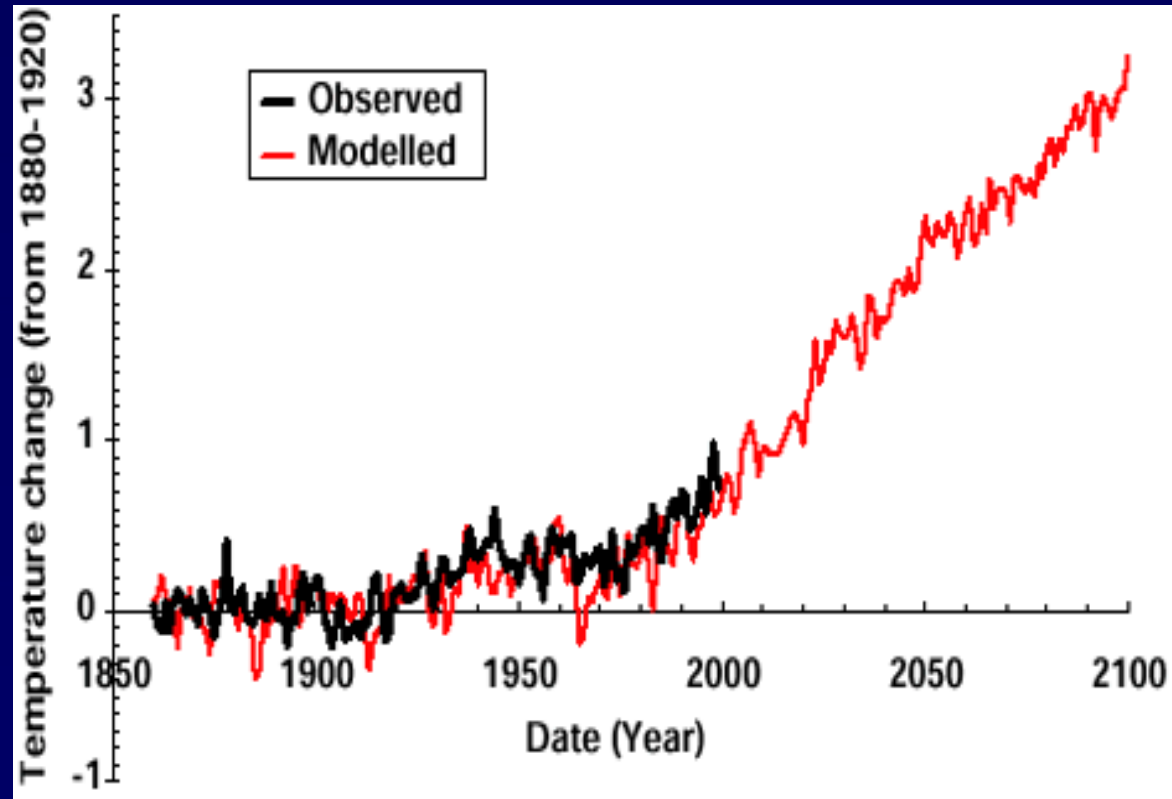
Opportunities for Business

Brian Chamberlain C.Eng Hon FEI
Managing Director TM Resource

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CLIMATE CHANGE



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Sticks & Carrots

- Climate Change Levy
- Emissions Trading (NAP)
- EU Building Regulations
- Grants
- Loans

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Climate Change Levy

- Added to all electricity / gas bills
- Rebates available
- NI rebates
- Cash recycled as grants

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Emissions Trading

- “Emitters” capped
- Buy permits to exceed caps
- Sell surplus into market
- Current NAP dispute

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Building Directive

- Buildings categorised
- Performance Monitoring
- Public Buildings

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Net Result

- All energy costs will increase!

(and oil prices are spiralling!)

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Mitigating the Impact

- Develop a Policy
- Buy better
- Understand your consumptions
- Reduce Waste
- Improve Efficiency

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Grants

- Carbon Trust Surveys (+£50K spend pa)
 - » Initial Opportunities Assessment
 - » Specific Opportunities Assessment
 - » Energy Management Assessment
 - » Multi- Site
 - » CHP
 - » Partnerships (50% Grants)
 - » Accredited Consultants

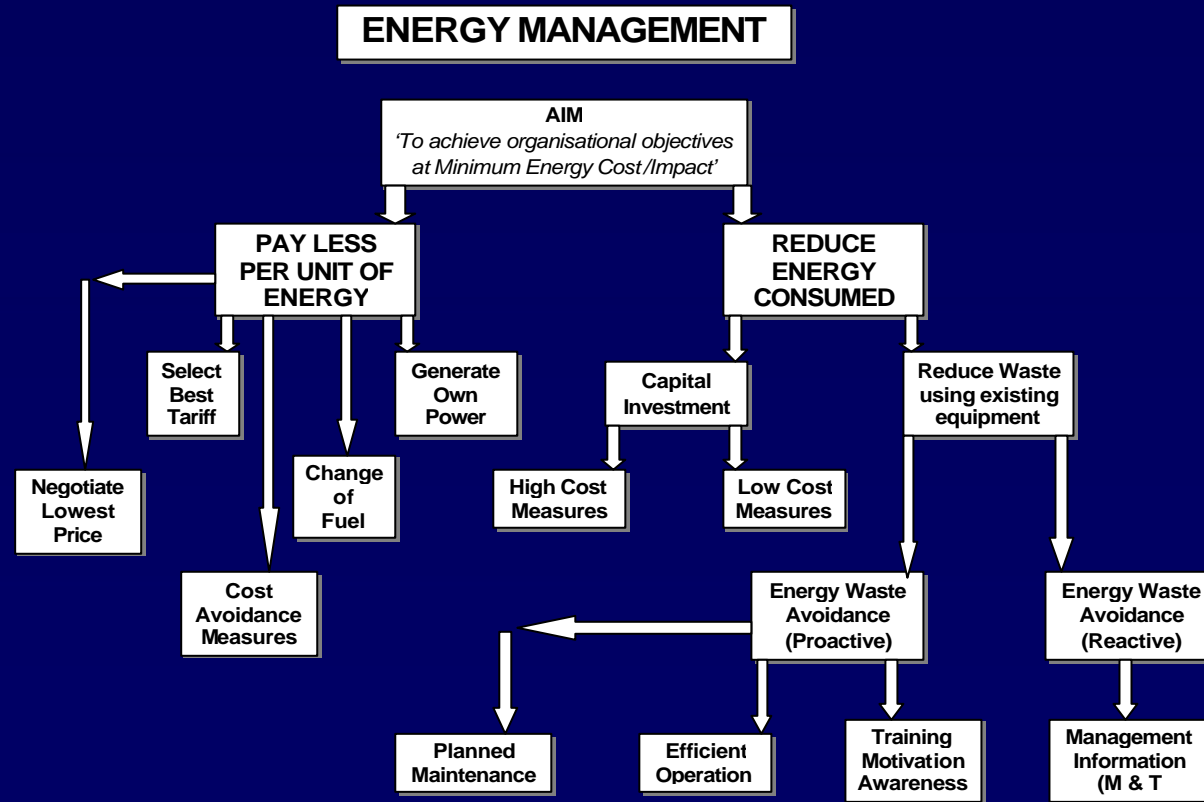
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Further Grant Assistance

- Monitoring & Targeting
- Detailed Surveys
- Project Development
- Staff Training
- Loans for SMEs

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Energy Management



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ENERGY PURCHASING

- Internal
- Consortia
- Brokers
- Independents
- Bill Checking

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Engineering / Implementation

- Internal
- Consultants
 - » Retained
 - » Fees
 - » Performance

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Performance Contracting

- A partnership arrangement
- No initial fees
- Clients set parameters
- Flexibility, clients have control
- Funding Available
- All fees from savings
- Additional profits at no risk

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Contract Operation

- Agreement * (Client manager, team etc.)
- Investigation / agree projects *
- Benchmark / specifications *
- Detailed report
- All fees from savings (usually monthly)
- Ongoing support

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Energy Opportunities

- M&T
- Compressed air
- Power
- Heating
- Furnaces & burner systems
- Climate change levy

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Waste Opportunities

- Scrap Sales
- Scrap Reduction
- Recycling
- Handling systems
- Environmental aspects

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Production Opportunities

- Quality Improvements
- Process optimisation
- Plant amalgamation
- Process Modelling
- Productivity improvements

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Maintenance Opportunities

- Cost reduction
- Labour / resource surveys
- Downtime analysis / reduction
- Service contracts
- Contract maintenance

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Results Achieved

- Purchasing - £120k saved
- Compressed air - £66k saved
- Ceramic Drying - £55k saved
- Scrap reduction - £245k saved
- Building Controls - £500K saved
- Plant amalgamation - £1.9 million saved

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In all cases carbon emissions were
significantly reduced

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Why Do It?

- Reduces Carbon Emissions
- Corporate / Social Responsibility
- Raise Customer /Staff Awareness
- Improved Image (EEAS)
- Reduces Costs

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Thank you for your attention !!!

**Performance
Contracting**

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Any Questions??

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