



Welcome to

Green Business Resource **Efficiency Seminars** 

Winter Series, 2014













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#### Today...

- James Hogan Why Green Business?
- Andrew Mullins- Origin Green Programme Manager
- Eamonn Diver- Bewley's Manufacturing.
- Gary Nugent- Rosderra Irish Meats
- Coffee at 11.00
- o Justin Carton Manor Farm
- Calor Gas Case Studies- Ciara Twomey
- Gabriel Kelly- Dairygold
- o Ray O' Neill Head of Energy and Clean Technologies, AIB



BeGreen brings together all of the activities and programmes that have been put in place by the EPA, local authorities and other partners to promote waste prevention. The BeGreen programmes provide homes, business and othe sectors of society with ways in which they can participate in making Ireland a more sustainable country while saving themselves money. Click on the programme of most interest to you.

Working Towards a Resource Efficient Ireland





## GreenBusiness Who are Green Business?

- We are an EPA funded programme, part of their BeGreen
   Programme funded under the NWPP
- Green Business is managed by the Clean Technology Centre, CIT.

- We provide FREE resource efficiency advice for Business
- Our services direct support include on site assessments, telephone support
- And indirect support: Guidance, Case Studies, Seminars, etc.



#### SO HOW DOES OUR SERVICE WORK?

Fill in application form

- •>20K
- Provide data

Free Service

Confidential

Assessor assigned

- Site visit
- Half day

Report

• Opportunities identified

Follow up

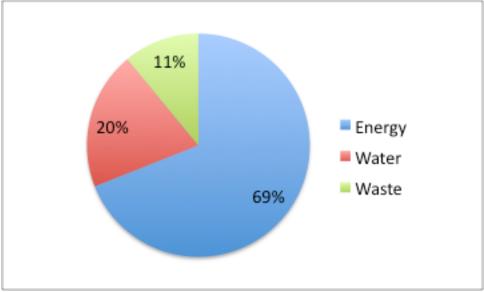
- Cost benefit/ analysis
- Implementation

PR

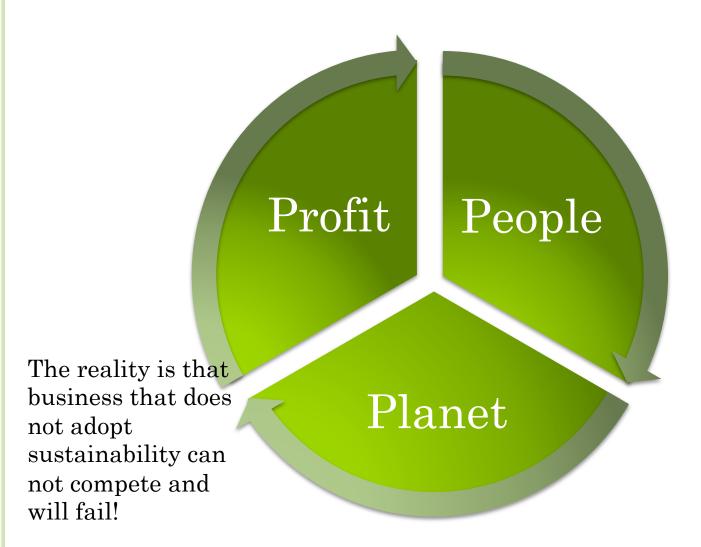
• Measure saving and promote



## JUNE 2012 ENBusiness



## GreenBusiness SUSTAINABLE BUSINESS





#### **PROFIT**

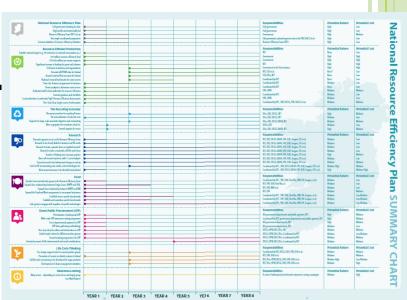
• This driver that is most evident to us at the coalface.

• Reduce energy, water, waste costs-"It's good for

the planet too!"

## ROADMAP FOR RESOURCE EFFICIENCY PLANGreenBusiness RELEASED LAST WEEK

- 1% improvement in resource efficiency
  - → initial saving of €464 million per annum
- Moderate resource efficiency improvement: (25% by 2020)
  - → national savings...
- Private sector: €6.1 billion.
- Public spending: €900m.





#### **PEOPLE**





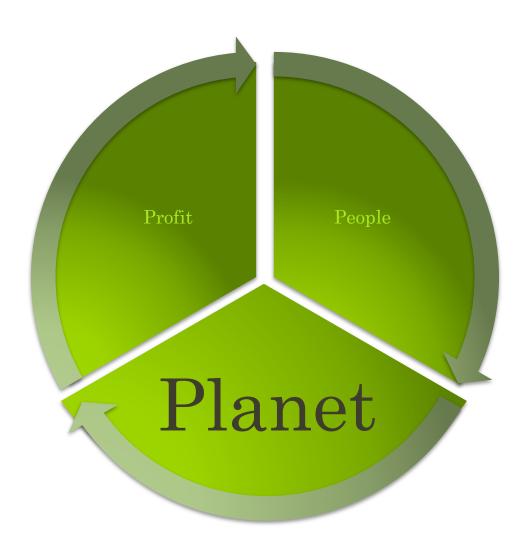


#### PLANET

- Dependent of environment for :
  - Raw materials
    - Need to protect Soil, Water, Air, Limited Resources
    - Dublin has a limited water...
  - Stable environment for people to live
  - Stable economy Wall Street appreciates this now
  - Governments beginning to see bigger picture.

You can't have PROFIT without PLANET.

## GreenBusiness SUSTAINABLE BUSINESS



## GreenBusiness SUSTAINABLE BUSINESS





#### PLANET

http://natureisspeaking.org/about.html

#### NATURE DOESN'T NEED PEOPLE. PEOPLE NEED NATURE.

Human beings are part of nature.

Nature is not dependent on human beings to exist.

Human beings, on the other hand, are totally dependent on nature to exist.

## SUSTAINABILITY





- **❖**Irish Dairy sector predicted to expand by 50% by 2020
- **❖**Limiting factors to expansion will emissions of CO<sub>2</sub>, Water and Wastewater



#### Lighting

#### Food Processing Plant

- Replace T8 florescent light with T5 florescent lights.
- 40% reduction in energy
- > energy reduction in cold storage
- o Lamp Cost- €9,000
- o Energy Savings €15,000
- Payback=7 months





### Fuel switch / greater efficiency

#### Office block

- ◆ Installed new gas boiler 92% efficient compared to old oil boiler at 70%
- ◆ Natural gas 50% price of oil
- Estimated fuel cost reduced by 68%
- ◆ ROI= 1 year

2012 Estimated fuel Cost	Cost
Oil	€38,000
Potential Annual fuel savings	€25,800
Project Cost	€23,300
Payback	< 1 Year



#### Heat Recovery

#### Ballon Meats, Carlow

- 40% reduction in oil bills
- Recovered waste heat from refrigeration units

o Investment: €47,599

• Payback: 36 Months





#### Reduced flows

#### <u>Meat Processor - Optimising cleaning</u>

- Using 175 m³ water in cleaning shift, at 65°C cleaning shift
- Measurement of a typical individual hose:
   26 litres/min



- By **reducing flow** to 20 litres/min
- o Potential savings of €42,000 per year



#### Leak detection/ repair



### Stillorgan Village saves €24,000 on water leaks.



o Cost Savings: €24,000 / Annum

o Investment: €15,000

• Payback: 7 Month

#### Waste Prevention



#### Freshways, Kerry Group

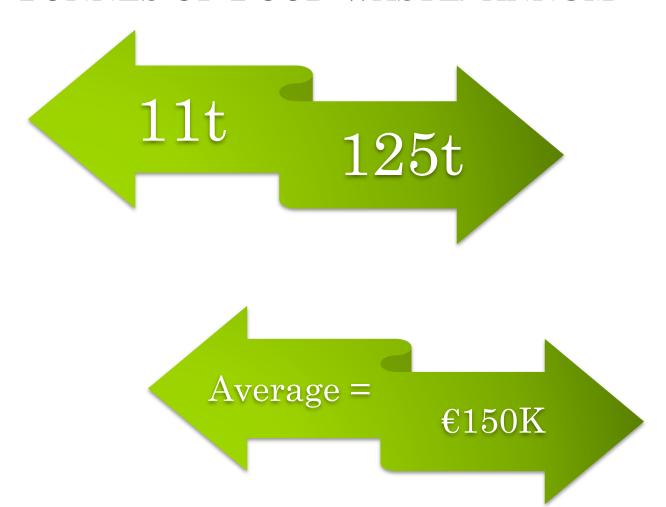
- 112.5 tonnes / annum of bread crusts sent for composting
- costing €7,500 for waste management
- Possible to sell these crusts to produce bread crumb manufacturer



- o Cost saving €7,500/ annum
- o Income from sale of crusts= €8,000.
- Net benefit the company = €15,500



## GHP HOTELS TONNES OF FOOD WASTE/ ANNUM



# The Green Business Why isn't there more resource efficiency?, Barriers

- Too busy making products/ providing service
- Not enough staff time devoted to RE
- o Capital expenditure an issue
- Confused by the variety of technologies/ solutions
- Weak environmental policy/ culture



## What can drive resource efficiency?

- Cultural change,
- At management level where resource efficiency and environment is valued as part of the culture/ DNA.
- Management need to be convinced to invest in RE, from a cost and market perspective
- Staff awareness



## What can drive resource efficiency?

Technical

 More awareness / information required on technical solutions

• BP guides and case studies

• Financial incentives.





#### THANK YOU

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