Higham and River Stour - Dedham Vale
The ‘Perfect Storm’ by 2030

- The world's population will rise from 6bn to 8bn (33%)
- Demand for food will increase by 50%
- Demand for water will increase by 30%
- Demand for energy will increase by 50%

Source: Prof. John Beddingfield – former UK government's chief scientific adviser)
Our challenges

Climate mitigation *reducing the impact*

Climate adaptation *managing the change*

Protecting and enhancing *our environment*
Adaptation is about managing risk – not a green issue

Temperature Change relative to pre-industrial

- 1°C
  - Pressures on housing from flooding, water shortages and overheating
  - Less need for winter heating but more demand for summer cooling
  - Increased health problems from flooding
  - Increased disruption to national infrastructure from flooding, storms, heatwaves, sea level rise
  - Risk of loss of plant and animal species from UK
  - Continued warming of sea leading to changes in fish stocks with impacts on sea birds
  - Opportunity to grow new crops
  - Increasing UK crop yields
  - Increasing disruption to global environment with 20-30% of species at high risk of extinction
  - Extensive damage of coral reefs

- 2°C
  - Summer heat related deaths
  - Increased risk of drought, reduced river flows in summer and more water quality problems
  - Number of new plant and animal species arriving in UK
  - Radical change in ecology and landscape of UK
  - Reduction in viable agricultural land due to coastal erosion and water shortages
  - Increasing number of people at risk from sea level rise and hunger
  - Conflicts and displacement - tensions over scarce resources

- 3°C
  - Substantial burden on all aspects of health service
  - Radical change in ecology and landscape of UK
  - Worldwide increase in deaths from heatwaves, floods and droughts
  - Major extinctions around the globe

- 4°C
  - Sea level rise threatens UK cities
  - Sea level rise threatens UK cities

- 5°C
  - Sea level rise threatens UK cities
  - Sea level rise threatens UK cities

Suffolk County Council
What does climate change mean for Suffolk?

Specifically:
- More unpredictable extreme weather events (flooding, heatwaves)
- 20% more winter rainfall
- 20% less summer rainfall
- 3.6°C increase summer temperatures
- Sea level rise

So what?
- Increase in coastal, flood plain and surface water flooding
- Permanent coastal land loss
- Water shortages
- Disruption and damage to infrastructure
- Decrease in crop yields
- Longer growing season
- Increase in tourism?

Source: Suffolk Climate Action Plan 2
From ambition to delivery creating the golden thread and unlocking partners’ enthusiasm

Suffolk Strategic Partnership
Community Strategy: Transforming Suffolk

To be exemplar in tackling climate change and protecting and enhancing the local environment.
Delivery in action
Suffolk’s Communities…

Supporting the community to take action that delivers local benefits that will inspire others to follow
A growing number of community groups already taking the lead across the County...
Energy and CO2 audits for Community Buildings

- Identify ways to save on energy bills
- Impartial advice on renewable energy options
- Free service
- Signpost to funding sources
Community Owned Green Power Stations

• Help assess which technologies are right for your area – solar panels, wood fuel, wind power, insulation, hydropower.

• Keep the financial rewards local.
Green Suffolk Fund supporting £1.5m of community projects to tackle climate change.
Spring clean on the A14
Suffolk’s Residents…
Heat Loss in a Home

Ensure your home is as warm as toast next winter

Offer ends SOON!

Contact us **today** to find out about our time-limited offer*

**0845 603 7686** local call rate

**Insulate your home for free** – and your school, sports club or community group will receive £15

*Suffolk County Council*
Insulation of existing building – Frankfurt retrofit by factor 10 - Tevestr.
Solid Wall Insulation

In a Victorian house, up to 45% heat loss is through the walls.
Solid Wall Insulation

After insulation, only 6.5% heat loss is through the walls!
Draughts, Ventilation & other low cost measures
(The other 13%)
Lighting and Appliances:
(32% of all emissions)

Heating Controls & Energy Monitors –
Programmable controls and real time displays help you eliminate wastage.

Lighting – New LED bulbs can cut usage by over 90%! You can even get dimmable ones now and try before you buy with a lightbulb library.

Appliances – Save up to £45 of electricity a year per appliance by choosing ones with this logo. Tumble dryers and old freezer are the worst offenders.
Tackling fuel poverty - energy monitors used to help people reduce household bills and carbon emissions – now available to borrow from local libraries
Live Availability

Use our Live Availability facility to discover your nearest available charging point in the East of England.

Please click on a charging location below

Electric Vehicle Charging Points
- Grants available for communities assisted by the SCCP Community Advisor
Re-localising the food chain

- Production of local food
- Supporting local producers and rural economy
- Running community shops and food buying schemes
Suffolk’s Businesses…

Becoming more resilient and resource efficient, so improving long term viability and profitability.

Taking advantage of new business opportunities as Suffolk works to become a truly green economy

“...to create a truly sustainable economy, growth needs to be linked to positive impacts upon the environment and resources used not only ‘efficiently’ but also ‘intelligently’ ”

Leading the Way, Green Economy Pathfinder manifesto 2012
Supporting Suffolk Businesses

- Resource efficiency advice to over 400 small businesses that has identified savings of £2m or 10,000 tonnes of CO$_2$ per annum.
OrbisEnergy a key plank in making Lowestoft the national centre for renewable energy
Case study
Actions speak louder than words. Alternative fuel, creating new economic markets, saving money and promoting biodiversity

First.. Then.. Finally..
The importance of celebrating success
Green Buildings Map

A map of case studies across Suffolk. Click a pin for details and a link to the case study.

Cherry Tree Close, Wortham
IP22 1QY
Read more
Hadleigh HWRC – Suffolk’s top performing site!

- Recycling & composting rate of 90%
- Finalists in the 2013 Recycling Excellence Awards
Creating the Greenest County partner University Campus Suffolk achieved BREEAM excellent
Creating the Greenest County partner
Adnams overall winner of the Carbon Trust Innovation awards
Winner of National Energy Efficiency Awards
Hadleigh Beaumont Community Primary School
In summary

The challenge is enormous but the consequences of failure are even greater...

Success is possible if we:

- Celebrate
- Inspire
- Support
- Enable
To find out more:
www.greensuffolk.org

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