

Powering Preston

APSE Big Energy Summit
February 2015



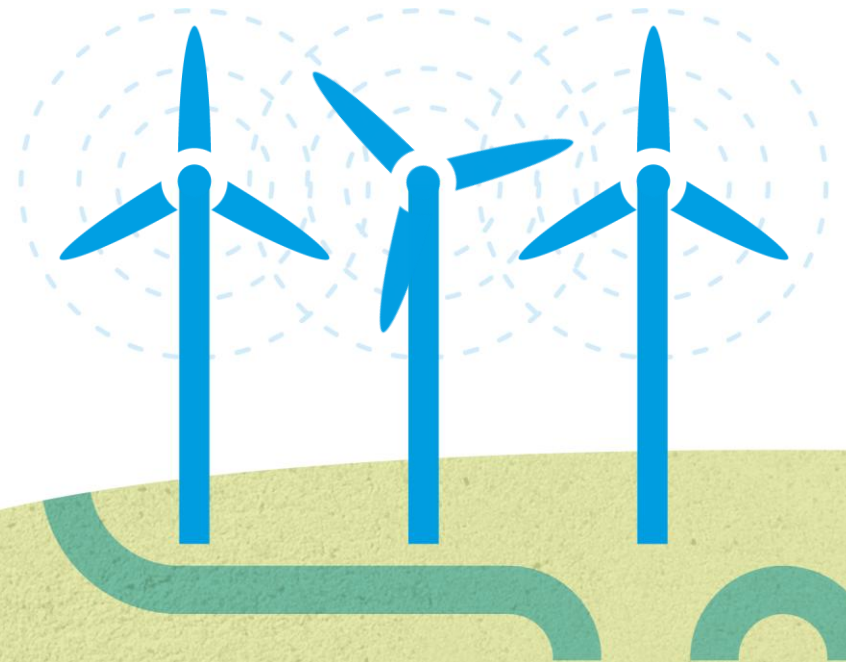
Introduction

- Renewable Energy - The Vision
- Why wind?
- Powering Preston
- Resources and funding
- Current position
- Next steps
- Q & A



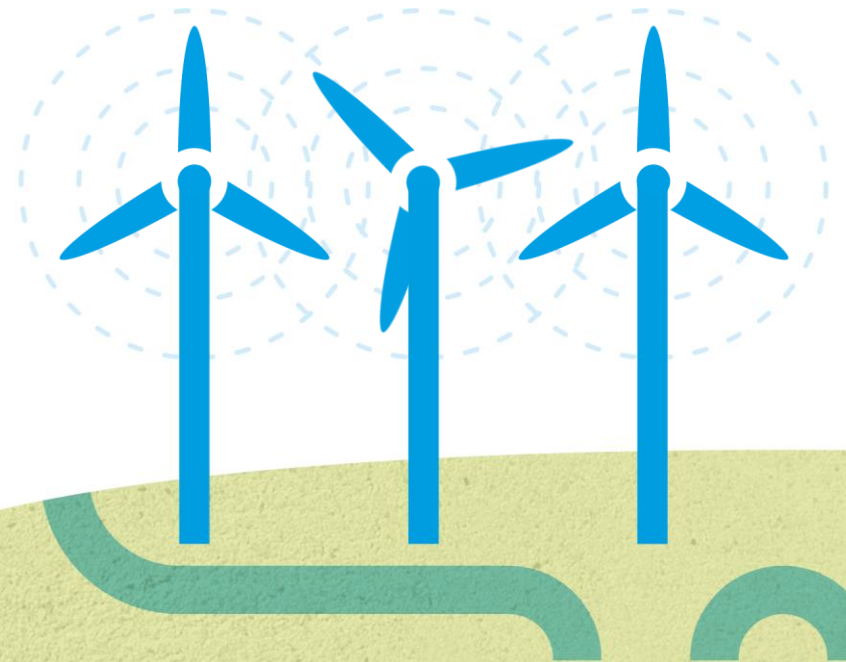
Background

- UK commitment to generate 15% renewable energy by 2020
- LA's Proven capacity & capability in renewable energy schemes – Wrexham, Bristol, Nottingham
- Policy Hook – Lancashire Climate Change Strategy
- Council commitment to reducing carbon usage and carbon footprint – Corporate Project
- Preston listed as top district in the Government's Energy Efficiency Scheme
- Council energy consumption: 2011/12 (c8,000 MWh per annum) now de-minimis



Powering Preston

- 13% of Preston's communities are fuel poor
- CERT, CESP & ECO
- Green Deal
- Use of Council assets and natural resources
- Large Scale Solar; change in Feed-in Tariffs = reducing rate of return
- Wind energy = greater risk but much greater reward
- Outline Business Case & Development Budget



Why wind?

- Clean and cheap to generate
- Quiet and efficient
- North west of England one of the windiest places in Europe
- Wind turbines are reliable and generate electricity 70-80% of the time
- Successful wind energy industry in the UK operating over 20 years
- Wind energy industry created 12,000 jobs in the UK with up to 90,000 expected by 2020

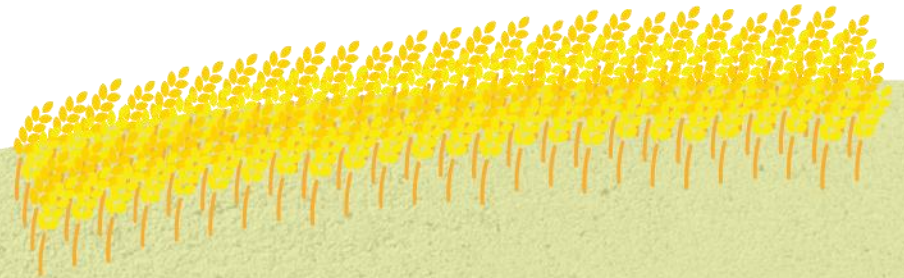


Progress To Date

- Main Consultants Appointed via EU restricted procedure
- Anemometer up and running measuring wind speeds at 30m, 50m and 70m
- Measurement period to collect wind data – Financial grade assessment essential
- Radar issues, NATS, MOD, Local Airport
- Ecology – Birds, Bats, Water Vole, Newts
- DNO – Grid Connection
- Strike Price

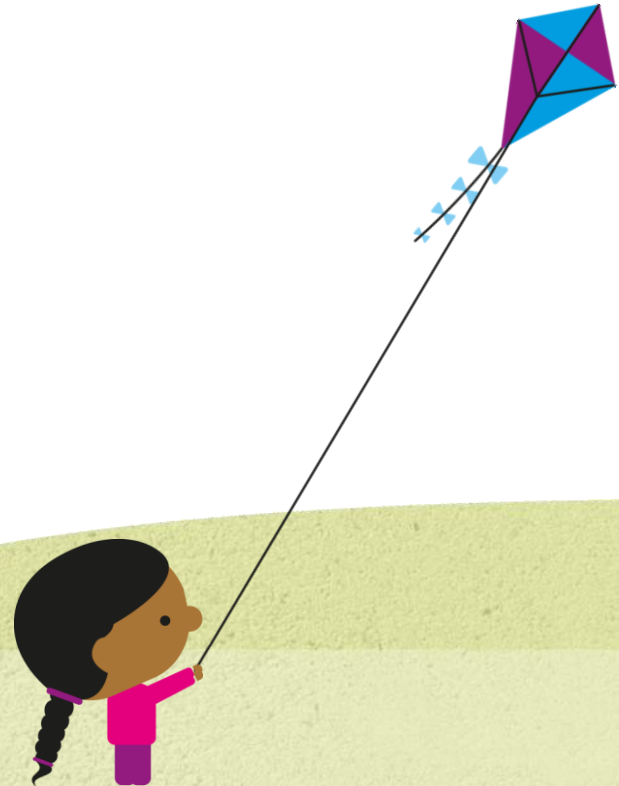
Resources and funding

- Investment of £10m to construct 3 x 100m (3MW) wind turbines
- Sources of funding
- Net return of £2m per year x 20 years
- Payback period six years
- Potential surplus of up to £40m to be re-invested in Preston
- Members decide how to spend and invest this money
- Huge potential for community engagement to help decide spending priorities



Current Position

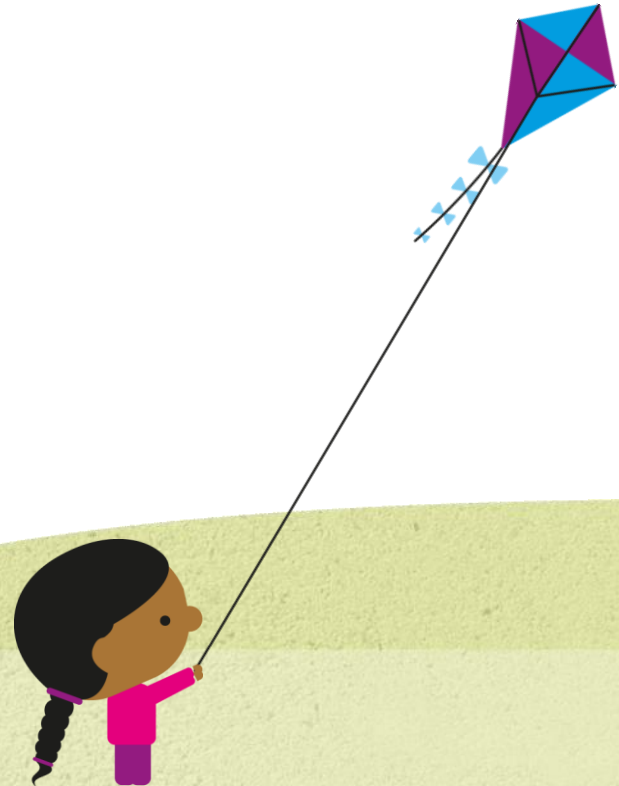
- Wind speed data in hand
- Ecology issues progressing
- Grid connection available
- Radar solution developed
- PR issues negligible
- Government Subsidies fluid
- Political position – General Election
- Project risks balanced



Next steps

- Determine radar solution and cost. Include any partnering opportunity
- Pre-app services from NATS/MOD
- Submit application to DNO
- Recast business plan based on actual wind speed, candidate turbine, CFD's
- Commission EIA

N.B. The EIA would not be commissioned until site is determined as suitable

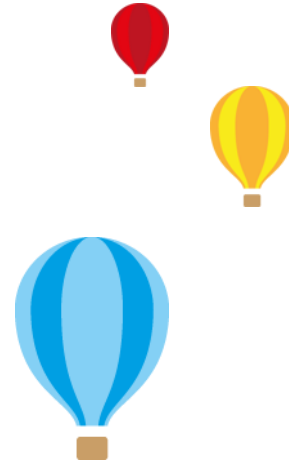


Conclusions

- Innovative, pioneering scheme for Local Government.
- Renewable energy commitments
- Reduce carbon emissions
- Significant benefit for local economy
- Significant benefit to Preston and future of council services including fuel poor
- Alignment of the green and corporate agendas

BUT

You need STAYING POWER!



Any questions?

