

# Low Carbon Task Group

---

## Three Proposals:

- **Area Based Retrofit**
- **Birmingham Smart Grid**
- **Waste to Wealth**

**The three proposals stand independently but work together synergistically and have the potential to have a major positive impact on the regional economic growth of the region.**

# Area Based Retrofit

---

## Project Outline

Developing an area based approach to retrofitting at significant scale : to stimulate the local supply chain; to create skilled employment; to reducing emissions; to support the alleviation of fuel poverty

- Coordination of retrofit projects across the West Midlands
- 2 urban and 1 rural location
- Critical mass necessary for the development of local supply chain

## Headline Impacts

- Develop leading regional industry to exploit £390bn market
- Strengthen regional capability for retrofit – a growing international market
- Create 630 jobs in pilot projects, thousands more as further projects roll out
- 22,000 tonnes of carbon saved
- Develop new business models and opportunities
- Reduce fuel poverty: £10m energy savings in targeted areas

# Birmingham Smart Grid

---

## Project Outline

Development of a major demonstration project in partnership with E.ON/Central Networks to develop the Smart City Grid project, testing the electrical and electronic technology and intelligent communications that will facilitate sustainable low carbon homes and businesses in the future

- Focussed on the Impact Investment Location at Longbridge

## Headline Impacts

- Development of a world-leading capability in smart grid technology- set to become trillion dollar industry by 2020
- Thousands of jobs in high skill market
- Positioning the electrical architecture businesses of the WM to address this global market
- Drawing on and strengthening the existing high level of skill in the region's universities
- An exemplar energy architecture for the global transition to low carbon energy

# Waste to Wealth

---

## Project Outline

- Making the region a showcase for low carbon, distributed energy generation, with the potential to be a 'zero waste to landfill' area, through the development of 6 pilot resource recovery centres around the West Midlands
- Demonstrating resource recovery technology including energy recovery
- Development of local supply chain
- Commercially proving technologies being developed in the region's universities

## Headline Impacts

- Creation of thousands of jobs in build, manufacture and operation
- Development of technologies to secure multi billion market for thermal conversion technologies
- Addressing region's landfill diversion imperatives
- Attraction of inward investment to the region

# Progress on Initiatives

---

## **Area Based Retrofit**

- The Homes and Communities Agency (Paul Spooner) is taking this forward with the support of the Sustainable Housing Action Plan
- A supply chain development group has been established including the housing associations to ensure regional business can realise the opportunity
- Funding discussions are being arranged with potential investors and linking to the Green Investment Bank.

## **Birmingham Smart Grid**

- Central Networks and Birmingham City Council (with AWM) are developing a major plan for the Longbridge site for a regional bid for OFGEM demonstration funding in September

## **Waste to Wealth**

- Led by AWM's Sustainable Development team
- Including the wider decentralised energy infrastructure solutions as well as resource recovery
- Three sites prioritised: Longbridge, Hereford and Coventry
- The next phase – working with utility companies and local authorities to develop Energy Service Companies to deliver the required infrastructure solutions at the 3 IILs.