

Appendix 1. What the pathways mean in 2038 for communities, residents, and businesses and the potential employment and skills opportunities.

In 2038, delivering the measures in the pathways will mean residents and communities...

- Live in energy efficient homes that cost less to run and are more comfortable to inhabit. 679,000 dwellings, over half the dwellings in West Yorkshire, will have had some form of energy efficiency measures installed.
- Homes are heated by low emission technologies replacing existing natural gas boilers. At least 874,000 homes in West Yorkshire will have a low emission technology delivering their heating needs.
- Produce some of the electricity they need in everyday life through solar panels installed on their roofs. At least 171,000 homes in West Yorkshire will have solar panels installed, up from 30,000 today.
- Commute to work less, working from home and using teleconferencing more extensively than today, and ultimately improving quality of life. A minimum of 12 percent of all trips taken today will not be needed in 2038 because of remote working¹.
- Walk more for trips of less than 2km, cycle more for trips less than 10km and use public transport (buses and trains) over the private car. In 2038 as a minimum 4 percent of all trips will be by walking, 12 percent by bicycle, 7 percent by bus and 15 percent by train.

In 2038 delivering the measures in the pathways will mean businesses...

- Use less energy and save money as a result of the installation of energy efficiency measures and low emission heating and electricity generating technologies, increasing the ability to invest in research, innovation and employees. In 2038, a minimum of 45 percent of the heating requirements of all offices, hospitals and other non-domestic buildings in West Yorkshire will be generated by low emission technologies.
- Make less trips for business purposes utilising digital infrastructure for meetings and remote working, reducing the need for large centralised offices. As above a minimum of 12 percent of all trips taken today will not be needed in 2038 because of remote working.
- Have significant employment, skills and training opportunities through the transition to net-zero carbon by 2038. Opportunities will occur across manufacturing, production, construction, installation, operation, and maintenance of the measures which are implemented.

¹ Demand reduction percentage cited also includes locating new homes closer to places of work and amenities to reduce journey distance.

Potential Employment and Skills Opportunities

Transport Sector

Skills / Job / Training Opportunities

1. Deployment of digital infrastructure e.g. broadband, to facilitate a greater number of employees to work remotely.
2. Construction and operation of freight consolidation centres e.g. first-and-last mile delivery operatives.
3. Operation of increased number of public transport vehicles.
4. Construction of infrastructure to facilitate the transition to zero emission fuels or increased public transport patronage e.g. rail electrification, charging points, hydrogen refuelling stations.
5. Manufacture of zero emission vehicles.

Building Sector

Skills / Job / Training Opportunities

1. Retraining to facilitate scale of retrofit and heating system change required.
2. Significant employment opportunities in retrofitting properties.
3. Training opportunities related to the specific skills necessary to install different low carbon heating systems
4. Employment in the installation of different low carbon heating systems.
5. Manufacture of different low carbon heating systems and measures that could be used in retrofit of dwellings.
6. Scale-up of the supply chain to deliver the scale and pace of change necessary in retrofit and heating systems.
7. Reinvigorate supply chains for rooftop solar PV.
8. Employment in the installation of rooftop solar PV.

Power, Industry and Land use & Agriculture

Skills / Job / Training Opportunities

1. Construction of onshore wind and large-scale solar PV.
2. Retraining in the skills needed for development and construction of onshore wind and large-scale solar PV.
3. RD&D in carbon capture and storage and industrial equipment to run on low carbon fuels.
4. Hydrogen – homes and transport
5. Planting of new woodland.
6. Peat restoration.
7. Land management skills and training.
8. Agricultural innovation to facilitate higher yields and lower emissions.
9. Development and operation of facilities to manage food waste.