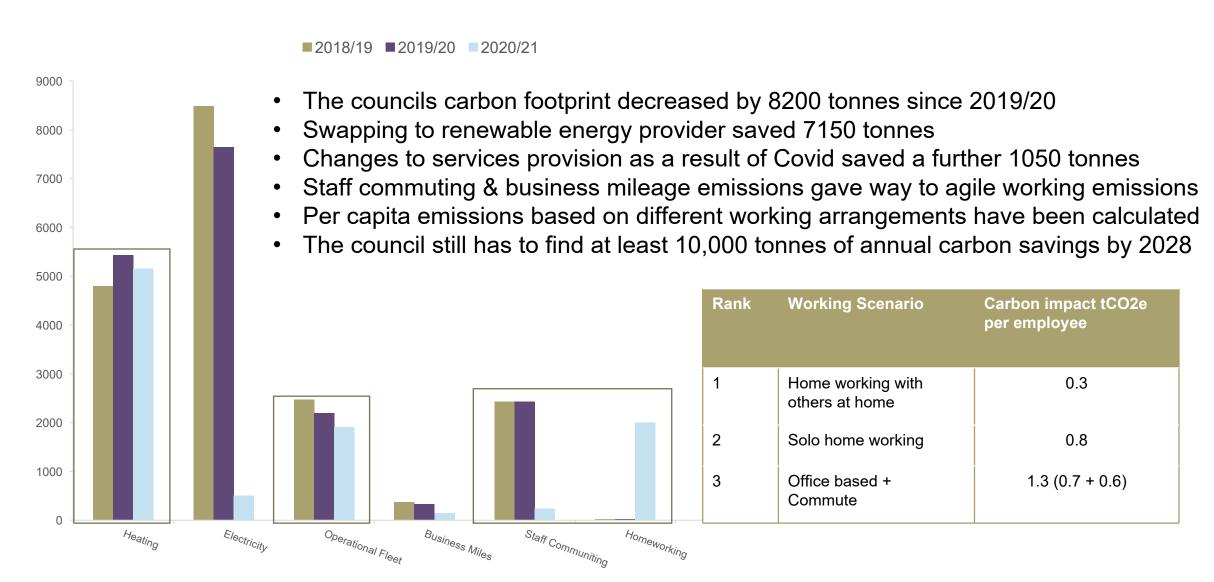


Scrutiny Panel Vibrant and Sustainable City 21st October 2021

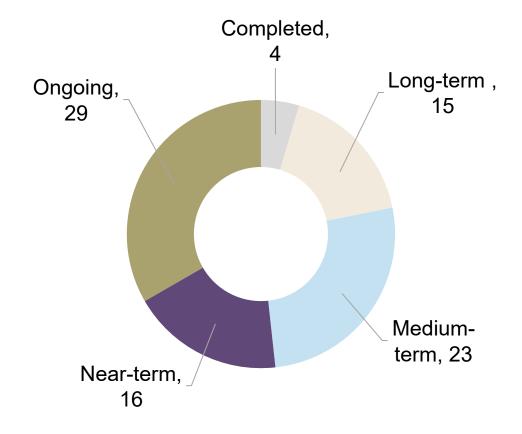
wolverhampton.gov.uk

Update on the Council's Decarbonisation



Tangible Outputs

Action Plan Time Scales



Most actions in in development and on going, some tangible outputs have already been realised:

- Council Procured renewable energy provider
- LED street Light programme 50% complete
- Staff climate Tool Kit has recently been Completed
- Council carbon footprint and Covid Impact assessment completed
- Council 2028 action plan approved

Anticipated completion of all ongoing actions expected within the next year.

Action	Anticipated Delivery Date		
	2021/22	2022/23	2023/24
Low carbon Staff Travel Policy			
First 48 EV's & chargers			
Internal governance established			
Carbon Coding in reports			
Grey fleet and mileage claim system			
Asset Energy Surveys			
Fleet Telematics System			

LED Street Light Programme

Programme Objectives



30,000 Street lights



Expected energy reduction of approx. 40%



Estimated total carbon reduction of 1781 tonnes



Expected
Completion Date
September 2022

Programme Progress



12,500 installations to date



Approx. 20% reduction in energy consumption



£350K of energy savings so far



LED Street Light Programme

No Ecological survey has been conducted, but recent research suggests:

48% more Flies and Moths attracted to LEDs than HPS [1]

Possible impacts on sleep cycles of small mammals and birds at high brightness

Conflicting theories on bats, but suggested it may alter roosting habits (as do normal streetlights)

Depending on species

- •Increased bat presence due to increase in certain insects
- •Avoidance by other due to reduction in other insect species

LED's do not produce UV light, and so has a lesser impact on other animals compared to HPS/Mercury/Flourescent

LEDs don't contain toxic components such as mercury



Buildings and Energy

GAS



~5000 tonnes of CO2 per year from heating



£800K in energy bills every Year



84 Corporate buildings to decarbonise



Fabric First approach required





3000 tons of co2 equivalent electricity used every year in buildings



Renewable electricity provider procured 2019



£1.8M in electricity bills every year



0.5 MW of Solar already installed on buildings



Solar PV

Buildings and Energy

	2021/ 22	2022/ 23	2023/ 24	2024/ 25	2025/ 26	2026/ 27	2027/ 28
energy Audits	Ongoing						
Decarbonisation roadmap	Ongoing						
Insulation Retrofits							
Heating Decarbonisation							
Energy Efficiency							
Roof Mounted							

The council will take a fabric first approach ensuring maximum energy efficiency to maximise the carbon and financial savings

Fully Costed Programme to be established through the energy audits and creation of asset decarbonisation roadmap



Fleet Electrification

The Current Diesel Fleet Produces:



~2500 tonnes of CO2 per year from fuel



5 Tonnes of Nitrous oxides



61 Kg of particulate matter



Approximately £1M in annual fuel costs alone

An All Electric Fleet Would Lead To:



87- 100% reduction in CO2e



100% reduction in NOX



£817K of fuel cost savings every year



Significant reduction in maintenance costs



Fleet Electrification

	2021/ 22	2022/ 23	2023/ 24	2024/ 25	2025/ 26	2026/ 27	2027/ 28
Update FMS	Ongoing						
Install Telematics	Ongoing		117 tCO2 savings				
1 st phase of Chargers	Planning stage						
Cars & Vans <3.1 tonnes	Underway		239 tCO2 when complete rising to 339			339	
RCVs						650 tCO2	by 2028
2 nd Phase chargers			In parallel with depot relocation				
Vans & Buses >3.1 tonnes						236 tCO2	up to 335
HCVs			384 tCO2 rising to 544 tCO2			4 tCO2	



Consumption, Waste & Plastics

Plastics Removed from Committee Rooms 2019 but more work needed to remove from other areas.

Café trialled Reusable salad containers 2019

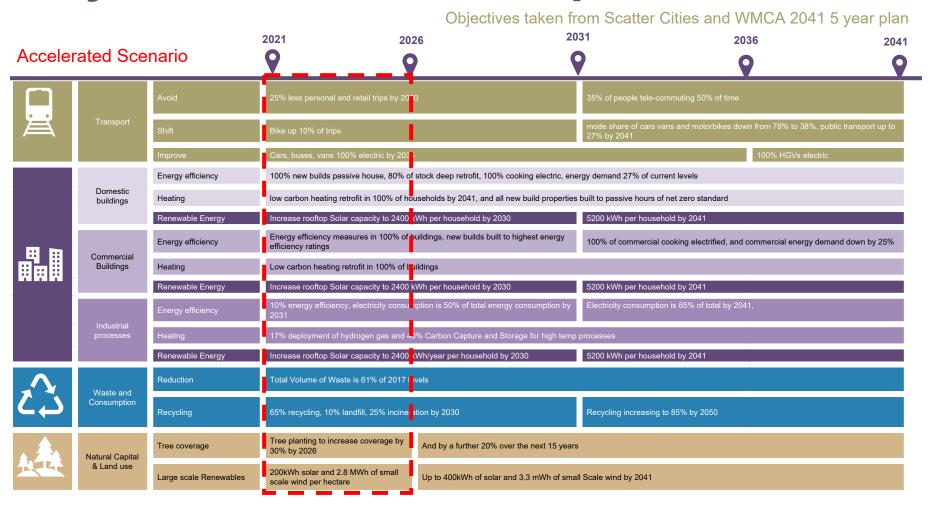
Plastic use has decreased significantly since covid with people being at home

Steps are being taken to ensure that future contracts include recyclable packaging

Procurement are identifying ways in which waste and climate change can be incorporated into future tenders following government advice



City 2041 Action Plan Updates



According to the WMCA 5 year Plan, 0.5 Bn investment required in Wolverhampton by 2026

City 2041 Action Plan Updates

Conduct internal stakeholder workshops to assign actions 1. Theme based Internal against each of the indicators and identify resource October 21 Workshops requirements Conduct higher level workshops and consultations with decision 2. Strategic engagement November makers to achieve buy in 3. Anchor network & external Consult with external partners across the city including the anchor December network to ensure City wide input partners January 4. Draft Action plan Agree draft action Plan internally and across the anchor network Establish environmental charter attached to the action plan that 5. Establish Environmental February 22 partner organisations can sign up to and engage city wide partners for Charter affiliation

Comms & Citizens Assembly



Citizens assembly participants couldn't be contacted as none selected follow-up engagement



Future Citizens assemblies will be conducted as part of future consultation process



Citizens assemblies should be a regular occurrence



A public Newsletter is being created that will be distributed across all available channels



The Newsletter will provide regular updates on council progress against it's 2028 and it's 2041 action plans



The newsletter will offer a two was channel of engagement and inform people of tools and services the can access to decarbonise



Thank you All for Listening

Any Questions