

Environment 2016/17 Action Plan

Priority Outcome: Nottingham's Environment will be sustainable; supporting and enabling its citizens to have good health and wellbeing including good air quality, parks and open spaces, active travel, housing and the built environment.

Priority Actions:

- Housing will maximise the benefit and minimise the risk to health of Nottingham's citizens
- The built environment will support citizens leading healthy lifestyles and minimise the risk of negative impact upon their wellbeing
- Children and adults will be able to engage in active travel
- Children and adults in Nottingham will have access to and use of green space to optimise their physical and mental wellbeing
- Air pollution levels in Nottingham will be reduced (to agreed standards)

To achieve the outcome and deliver our priority actions, we will:

1. Work with housing providers to support people to live healthy lifestyles, keep well and live supported at home when unwell
2. Improve housing standards and support vulnerable people who may be at risk of becoming homeless
3. Consider the impact of planning decisions upon health and wellbeing
4. Improve the city's infrastructure and encourage more people to walk and cycle or use public transport
5. Improve the quality of our green spaces and encourage their use by the community
6. Raise awareness of the positive impact small changes in behaviour can have on the environment

Headline measures / metrics	Metric/ KPI	Baseline	Target			
			16/17	17/18	18/19	19/20
	Ensure homes are safe & well managed protecting the health & wellbeing of tenants: PHOF 4.15iii - Excess winter deaths (all ages): The ratio of extra deaths from all causes that occur in the winter months compared with the expected number of deaths, based on the average of the number of non-winter deaths.	21.8 (2011-2014)	19.9	18.15	16.33	14.5
	Develop joint housing actions to prevent admissions, reduce re-admissions, and speed up hospital discharge: PHOF 1.17 The percentage of households estimated to be fuel poor: new measure: the Low Income High Cost (LIHC) indicator. Under the "Low Income, High Cost" measure, households are considered to be fuel poor where: 1 - They have required fuel costs that are above average (the national median level)	14	13.55	13.1	12.65	12.2

	2 - Were they to spend that amount, they would be left with a residual income below the official fuel poverty line. Target based on top core cities					
	Partnership will look to identify an appropriate metric. Potentially contribute to reducing the percentage of children aged 10-11 yrs with excess weight to the top 4 Core Cities average (PHOF 2.06ii)	37.9%	37.5%	37.3%	37.1%	36.9%
	PHOF 2.13i APS: Contribute to increasing the percentage of active adults to the Top 4 Core Cities average (150 mins a week equivalent)	56.5%	57.6%	58.7%	59.8%	60.9%
	PHOF 2.13ii APS: Contribute to decreasing the percentage of inactive adults to the Top 4 Core Cities average (≤30 mins per week equivalent)	29.1%	28.1%	27.6%	27.1%	26.6%
	(PHOF 2.06ii) Contribute to reducing the percentage of children aged 10-11 yrs with excess weight to the top 4 Core Cities average	37.9%	37.5%	37.3%	37.1%	36.9%
	PHOF 1.16 Percentage of people using outdoor space for exercise / health reasons: Numerator: The weighted estimate of the proportion of residents in each area taking a visit to the natural environment for health or exercise purposes.	Tbc following new citizen survey measure in 2016	Year on year increase			
	Air Quality ¹ :HWB (in conjunction with Nottinghamshire HWB) to protect and improve health by 'leading by example' and ensuring partner HWB organisations reduce air pollution by adopting & implementing measures that may be detailed in the (Nottingham/shire) Air Quality Strategy and relevant Air Quality Action Plans) that : 1 Reduce emissions from HWB partner organisations' transport and buildings; contributing to a reduction in nitrogen dioxide (NO2) and particles , assisting local authorities meet national air quality targets. 2 Promote and publicise action and measures that reduce air pollution amongst service users, partner organisations and suppliers. Reduce current emissions by organisation	NO2 48 ug/m3 PM10: 17 PM2.5 12 ug/m3 Baseline to be established:	46 17 12 Year on year reduction	44 16 11 Year on year reduction	42 15 11 Year on year reduction	40 15 10 Year on year reduction
Priority Groups (who is disproportionately affected)	1 Housing: Those living with an increased risk of living in poverty and poor quality housing e.g. children of teenage mothers, low income groups and vulnerable people who have sensitivity to cold damp housing and those with pre-existing conditions e.g. CHD asthma and COPD. 2 Planning: a) Children aged 11 to 16 and b) staff and service users within health and social care facilities and services' catchments 3 Active Travel: Children (particularly 10 to 11 year olds) and adults from deprived households, women, older people and adults with a disability or long term limiting illness.					

or who do we need to target to reduce inequalities?	4 Greenspace: to be confirmed - National survey - Adults 16+ and /or Nottingham Citizens survey participants
	5 Air Quality: 1 Low income groups live in the more polluted areas of the City and are therefore exposed to higher levels of air pollution. 2 Vulnerable people who have special sensitivity to air pollution and those with pre-existing conditions e.g. asthma and COPD. Target Population: All HWB organisations to encourage staff and visitors to reduce their emissions.

Action	Milestone	Year				Success Measures	Action Owner ⁱⁱ
		16/17	17/18	18/19	19/20		
General							
Support all action plan leads to consider the Health and wellbeing strategy's sustainability cross-cutting principle that all action plans will consider the sustainability of their funding arrangements and the impact on the environment.	Review action plans for their prospective impact on the environment and report findings to the Health and Wellbeing Board.	✓				All action plans show how they have considered the Health and wellbeing strategy's sustainability cross-cutting principle for the sustainability of their funding arrangements and the impact on the environment.	with Green Theme Partnership with Strategy Procurement and Commissioning
	Support action plan leads to make adjustments in line with recommendations.	✓	✓				
	Report changes to Health and Wellbeing Board.		✓				
	Monitor outcome.			✓	✓		

<p>Support Joint bids for funding that support improvements in air quality, increased access to greenspace, active travel and healthier housing.</p>	<p>Identify opportunities to bid for funding.</p> <p>Develop protocols and expertise in writing and supporting joint bids</p> <p>Collaborate to gather baseline information and develop SMART targets</p> <p>Submit bids</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	<p>✓</p> <p>✓</p> <p>✓</p> <p>✓</p>	<p>10 opportunities identified</p> <p>Protocols developed and agreed.</p> <p>Baseline information and targets developed and agreed for 5 bids</p> <p>5 bids for funding submitted to support the actions within this programme.</p>	
<p>HWB partner organisations to collaborate to improve the social and environmental impacts of current commissioning and procurement practices in accordance with the Social Value Act and other relevant NHS and Local Authority guidance.</p>	<p>realise supply chain efficiency opportunities which reduce indirect costs, environmental impacts and increase social value.</p> <ul style="list-style-type: none"> • identify tools and opportunities for sustainable development investment through match funding, partnerships and collaboration; for transport, energy and infrastructure and supply chain collaboration and innovation e.g. with D2N2 Local Enterprise Partnership, central government and universities. 	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>4 Pilots that illustrate a measured reduction in financial costs, environmental impacts and increased social value by focusing Health & Wellbeing Board commissioning and procurement on creating a social and environmental return on investment utilising national tools.</p>	<p>NCC Strategy & Commissioning Nottingham City CCG Nottingham Sustainable Procurement hub</p>

Action	Milestone	Year				Success Measures	Action Owner ⁱⁱⁱ
		16/17	17/18	18/19	19/20		
Develop joint housing actions to prevent hospital admissions, reduce re-admissions, and speed up hospital discharge	<ul style="list-style-type: none"> Health and Wellbeing Board to support the development of a partnership approach to ensuring effective hospital discharge into suitable accommodation, including agreeing the renewed hospital discharge protocol. Evaluation of the impact of the Hospital 2 Home Pilot, agreement to re-commission and expand the service to people who are homeless or with mental health support needs Health and Wellbeing Board members to facilitate an integrated approach to alternative solutions to residential care and hospital: promote and market Assistive Technology solutions to help people to stay independent; homes that are energy efficient and adapted to meet needs to reduce falls and which enable support to be provided in the home and local community. 	✓	TBC	TBC	TBC	<ul style="list-style-type: none"> Reduced hospital admissions, re-admissions, and speed up hospital discharge Hospital 2 Home project is re-commissioned and extended to cover more at risk groups Better utilisation of specialist housing stock 10,000 Telehealth/Telecare users by 2018 Reduced hospital admissions, re-admissions, and speed up hospital discharge A more joined up and simplified process for accessing and utilising AT to support independent living. Reduction in the number of people discharged from hospital with no fixed abode Reduction in excessive length of stay in hospital Reduction in repeat admission to hospital 	NCH NCC Housing Strategy Health and Housing Partnership Group Homeless SIG VAPN
Enable local health, housing and social	<ul style="list-style-type: none"> Support collective systematic review into the accommodation 		✓			<ul style="list-style-type: none"> Fewer people in need of residential care and more 	NCC Housing Strategy (NCC commissioning, CDP, CCG)

<p>care partners to identify and fulfil their role in preventing homelessness, reducing repeat homelessness and meeting the health and wellbeing needs of homeless people</p>	<p>and support provision and pathways available for people who have multiple or complex needs, mental health support needs or substance misuse issues or learning disabilities and set out a clear strategy for implementation of locally preferred options promoting early intervention activity for the prevention of homelessness and using joint assessment processes, collectively established referral procedures and monitoring mechanisms</p>					<p>people able to live independently</p> <ul style="list-style-type: none"> • Increased choice in housing options with more flexibility within the system allowing for changeable circumstances • Levels of provision are adequate and don't lead to unsuitable accommodation placements or access issues • Resources are targeted efficiently • People do not fall between threshold gaps 	<p>and OPCC) NCVS</p>
<p>Ensuring homes are safe and well managed protecting the health and wellbeing of tenants</p>	<ul style="list-style-type: none"> • Support the promotion and use of the single point of contact for households & stakeholders in relation to private rented housing conditions • Utilise regulatory and non-regulatory activity to reach more and higher risk houses/ people in the private rented sector delivering safer, energy efficient & healthier homes • Evaluation and development of improvement plans for the highest housing and health challenges for the city • Strong user friendly web site • Marketing action plan with 	<p>tbc</p>	<p>tbc</p>	<p>tbc</p>	<p>tbc</p>	<ul style="list-style-type: none"> • Health protection through removing hazards to safety and health in homes • Well known and publicised contact point with simple referral mechanism • Consideration of extension of licensing of houses in the city • Delivery of existing licensing schemes • Collaborative delivery plan to tackle unsafe & unhealthy homes supporting landlord's & tenants • Increase in voluntary property improvement of homes through accreditation and other measures 	<p>NCC Environmental Health and Safer Housing</p>

	<p>focus on citizen and partners in health and social care</p> <ul style="list-style-type: none"> • Delivery plan developed to consider wider licensing and deliver licensing improvements • Assess benefits outcome and the future of existing schemes • Partnership task and finish group to develop planned action • Proactive action to tackle rogue landlord's • Monitor and evaluate home improvements that impact on health and wellbeing • Strong links/ referral mechanism to deliver wider beneficial health outcomes linked to housing such as homelessness, mental health, fuel poverty, smoking falls reduction etc. • 					<ul style="list-style-type: none"> • No of homes where improvement has been achieved 	
Develop a programme of energy efficiency works, targeting poorly performing homes, to reduce the health impacts from cold homes and fuel poverty	<ul style="list-style-type: none"> • Review survey data / BRE Study data and access landmark data to target poorest performing homes / low income areas • Review of current front line staff training and referral processes and identify any opportunities for improving value for money and outcomes 		✓			<ul style="list-style-type: none"> • Highest core city for ECO funding by 2019 • Number of landlords and owner occupiers improving their homes to EPC C or above. All homes meeting the EPBD requirements • Reduction in the number of households living in fuel poverty and/or at risk of excess 	<p>NCC head of Energy NCH NEP Health and Housing Partnership Group NCVS & VAPN</p>

	<ul style="list-style-type: none"> • Increase level of ECO funding used in Nottingham for affordable warmth measures • Produce Nottingham fuel poverty and energy efficiency strategy • Deliver programme of activity on enforcement by Environmental Health, including but going further than EPBD, and linking to facilitation of energy improvement works and developing sustainable financing models such as equity release • Working with Universities to analyse dwelling types and road maps to EPC C or above, and developing innovative (cost effective) solutions for hard to treat homes • Bring together an evidence base to show the impact of cold homes on health and the impact of energy efficiency work on health budgets. 		✓	✓	✓	seasonal deaths.	
<i>Supporting health choices through planning policy</i>							

HWB partner organisations to manage patient travel and improve access to health and care services by locating new health and social care facilities to maximise accessibility for customers and patients and reduce the need to travel.	Establish baseline for accessibility of healthcare services	✓				Accessibility & sustainable transport options fully considered within design and build for new healthcare services and facilities to maintain/ improve accessibility and reduce travel barriers. Outcomes: reduced journey times/ distance by sustainable travel mode for staff and service users within health and social care facilities and services' catchments	NCC - Transport Strategy
	Review good practice e.g. Bristol	✓					
	Develop action plan to maintain/ improve accessibility.		✓				
	Produce guidance for healthcare service commissioners on designing for accessibility		✓				
	Agree protocol for providing bid support from Health & Wellbeing Board partners for NCC active travel funding bids	✓	TBC	TBC	TBC		
Controlling Hot Food Take Aways near secondary schools	<ul style="list-style-type: none"> Local Plan policy supported by Inspector at Public Examination and adopted by City Council (2017). Policy implemented through Development Management process 		✓			Hot Food Take Aways not permitted in accordance with the Local Plan policy.	NCC Planning and Transport
Explore options for creating built environments that enable good health, e.g. Ensure new housing development (above 10 homes) makes provision for open space	Share learning and good practice. Apply learning to developments. Report outcomes	✓	✓	✓	✓	Awareness raised about impacts of environment on health. Developments in Nottingham take account of health benefits	
Active and sustainable travel							
Manage health and social care staff and	Resource developed and provided for health and social care (H&SC)		✓	✓	✓	Reduced congestion, carbon emissions and improved AQ	NCC - Transport Strategy with HWB partner organisations

<p>business travel through Workplace Travel Plans (WTPs) including support for cycling for commuter and business travel.</p> <p>HWB partner organisations lead by example to influence wider business sector and supply chain/sub-contractors</p>	commissioners and providers to support the development of their Workplace Travel Plans (WTP) through a support programme eg Access Fund bid to DfT 2017/18 – 19/20					<p>particularly in the vicinity of and between the NUHT campus sites</p> <ul style="list-style-type: none"> • Reduced carbon footprint for staff and business travel in the health sector. • Improved workforce health and wellbeing – reduced absenteeism and stress. 	
	Publicise best practice to wider business community.			✓	✓		HWB partner organisations
	WTPs to inform actions for each organisation regarding Go Ultra Low fleet and energy reduction from transport		✓	✓	✓		
	Establish baseline for no. of H&SC worksites/ employees with an active WTP		✓			<p>All health and social care commissioners and providers in Nottingham City to report on outcomes of their Workplace Travel Plans developed in accordance with PHE and NHS England Guidance.</p> <p>Anticipated outcomes: Reduction in journey times/ distance by travel mode for staff within health and social care facilities and services' catchments.</p>	NCVS
	Establish NHS H&SC Travel Plan Partnership Group		✓				
	Produce good practice guidance for development of WTPs for H&SC sector incl. carrying out baseline staff travel surveys		✓				
	Provide WTP support programme		✓	✓	✓		
	Identify and promote local case studies			✓	✓		

<ul style="list-style-type: none"> Support joint bids including DfT and EU for sustainable and active travel funding eg forthcoming DfT Access Fund (revenue competition) 	<p>Successful joint bids to secure additional funding to support programmes to achieve healthier more active workforce and communities e.g. DfT's Access Fund, to support community cycling programmes and health and social care providers' workplace travel plan (WTP) support programme.</p>	<p>✓ ✓</p>	<p>✓</p>	<p>✓</p>	<p>✓</p>	<p>Support to include, as appropriate:</p> <ul style="list-style-type: none"> Letters of support Supporting data/evidence Local match funding contributions (incl. in kind) 	<p>NCC – Transport Strategy</p>
<p>Improve the access to and use of green space to optimise their physical and mental wellbeing</p>							
<p>Support and endorse plans developments and proposals for improving access to and through Green Flag award standard Parks and Green Spaces.</p>	<p>Work with partners to identify and link up Parks and open spaces via improved cycle and walking routes.</p> <ul style="list-style-type: none"> Review park boundary fences to identify new entrances and more direct routes into Parks Develop interpretation maps to locate Parks next to the NET and Bus routes Identify opportunities to improve DDA and bench type / locations en route and with Parks. 	<p>✓</p>	<p>✓</p>	<p>✓</p>		<p>Continued expansion of cycle and walking routes through parks and green spaces</p> <p>New interpretation map produced and circulated</p>	<p>NCC Parks Development</p>
	<ul style="list-style-type: none"> Identify opportunities to improve parks and green space infrastructure including Cafes, supervised toilet facilities footpaths, cycle parking, lighting, biodiversity and maintenance 	<p>✓</p>	<p>✓</p>	<p>✓</p>		<p>Undertake review and create new improved access</p>	<p>NCC Parks Development</p>

	standards.						
	•Work with partner organisations to deliver Green Flag improvements to land not managed by the Council.	✓	✓	✓	✓	Undertake review implement improvements	NCC Parks Development
Support Improvements in Green Flag standard Parks in the in neighbourhoods with the lowest healthy life expectancy levels.	Support the delivery of the Nottingham Open Space Forum (NOSF) charitable objective:- To enhance public health and wellbeing Identify and support active Parks friends groups to deliver regular healthy lifestyle activity programmes within the Park	✓	✓	✓	✓	Prioritised local investment plans to be produced for each ward in the City. Confirm a annual programme of parks and green space improvements	NCC Parks Development
	Recruit and support a network of local volunteer ambassadors and activators to help promote and deliver healthy life style activities within the local community.	✓	✓	✓	✓	Identify major land owners and negotiate opportunities to apply for Green Flag Improvements and applications to gf Awards	NCC - Parks with nature champions
Support an Increase in community activity and involvement in local parks, including cycling.	Develop a programme of park based activities that provides regular opportunity for people to participate, build friendships and gain confidence e.g. bowling groups, Health Walks, Community Gardening groups. Include cycle rides and cycle try out sessions	✓	✓	✓	✓	Charitable status Secured Hold regular open forum meetings Provide advice and support to friends groups	NCC - Parks with nature champions NCC Parklives NCVS
	Deliver a City wide programme of activities and community engagement to encourage local	✓	✓	✓	✓	Work with the Nottingham Parklives Team to identify and recruit volunteer activators	NCC Park Rangers & Parklives

	communities to take pride and ownership in their street / local area and participate in the Nottingham in Bloom / RHS it's your Neighbourhood campaign						
	<ul style="list-style-type: none"> Improve the design and quality of amenity green space located within housing areas. Seek to adopt Green Flag Standards for housing areas. 	✓	✓	✓	✓	Develop and support local communities to actively; <ul style="list-style-type: none"> participate in the annual RHS it's your Neighbourhood campaign Deliver an annual programme of active park based activities 	NCH NCC parks Dev & NCH Nottingham in Bloom Team
	<ul style="list-style-type: none"> Ensure new housing development (above 10 homes) makes provision for open space (new or a qualitative improvement to nearby existing) 	✓	✓	✓		Improvements in open space in new or existing developments	NCC Planning
<ul style="list-style-type: none"> Support an Increase in the provision and improve the quality (to Green Flag Standard) of facilities and maintenance standards in Parks and Green spaces located within all areas of the City. 	<ul style="list-style-type: none"> Improve the design and quality of amenity green space located within housing areas. Seek to adopt Green Flag Standards for housing areas. Ensure new housing development (above 10 homes) makes provision for open space (new or a qualitative improvement to nearby existing) 	✓	✓	✓		Carry out neighbourhood environmental improvements Identify trial area and agree with NCH All developments to secure Green space	NCC Parks Dev with Champions.

Tackling air pollution							
HWB partner organisations to develop more efficient systems by working together to reduce their energy usage and emissions from transport, heating/cooling and lighting and implementing energy efficiency measures.	Partner organisations to: 1. identify their organisations action owner/reporter 2. establish baseline/ report energy usage and emissions data 3. identify, implement and report active travel/vehicle emission reductions/energy efficiency measures 4. raise awareness of outcomes and impacts e.g. Website/page promoting how HWB have saved money reducing air pollution. 5. review and plan next steps	✓				Business signed up/ Enter annual awards. Clear downward trend (and projections) in nitrogen dioxide and particle concentrations across conurbation.	Environmental Health & Public Health with named leads from each participating HWB partner organisation
	Link review of transport energy usage with Workplace Travel Plan action programme on p4	✓	✓	✓	✓	See p4	Jennie Maybury
Raise awareness of pollution levels and health/environmental impacts of air pollution to encourage behavioural change to reduce emissions.	Awareness raising via a communications engagement strategy with schools/ students and community groups about NO2 and other pollution levels throughout Nottingham.		✓	✓	✓	Communications strategy implemented and reviewed.	NCC Education NCVS, CYPPN and VAPN Nottingham Academies Universities Environmental Health & Communications
HWB partner organisations to sign up to creating	Information about the health benefits of trees and greenspace for commuting, health and general	✓				Awareness raised of the benefits of trees and greenspace to health and	Public Health

opportunities to engage their organisations and /or communities in a City wide Tree planting Initiative.	recreation, to be presented to the Health and Wellbeing Board.					wellbeing to the HWB Board.	
	HWB organisations to Identify champions to work together to draft a HWB action plan for Tree Planting and include in organisation plans and strategies. Link to NHS Forest and Healthy and Biophyllic cities initiatives.	✓	✓			Review of plans and strategies and engagement of local people to help confirm locations and plant Trees	NCC Tree Team Health and Wellbeing Board champion Public Health
	Develop an annual community tree planting programme in all areas of the city that links with number of babies born in Nottingham.	✓	✓	✓	✓	Plant 5000 young trees in locations around the City	NCC Park Rangers
	Carry out survey work and Management operations to regenerate Woodlands in various locations around the City		✓	✓		Regenerate and improve 10ha of Woodland	NCC Parks and Tree Teams
Health and Wellbeing Board partner organisations signed up to Go Ultra Low programme (Supports actions on sustainable procurement and Workplace Travel Plans below)	Explore sign up of HWBBd members and define ambition for future years.	✓	✓			Increased awareness of opportunities re Go Ultra Low and consideration given to sign up by HWBBd member organisations.	NCC - Transport Strategy
	Establish baseline data for composition of pool and grey fleet (including leased for business purposes and staff owned vehicles) for Health and Wellbeing Board partners participating in Go Ultra Low programme. Monitor annually.		✓			Data recorded regarding pool fleet composition in participating organisations	NCC - Transport Strategy
	Agree Go Ultra Low action plans for each participating organisation to			✓	✓	X HWB partner organisations have Go Ultra Low action plans	

	<p>improve their fleet and travel from the following menu of options :</p> <ul style="list-style-type: none"> • Becoming corporate car club members • Investing in Low Emission vehicles for fleet, and lease car schemes including EVs and electric bikes • Develop long term staff/pool bike loan scheme in partnership with Citycard Cycles • Eco driving accreditation and training 			✓	✓	<p>resulting in:</p> <ul style="list-style-type: none"> • Increased car club membership • Investment in Low Emission vehicles for fleet, and lease car schemes including EVs and electric bikes • Development of long term staff/pool bike loan scheme in partnership with Citycard Cycles • VCS to raise awareness of these opportunities with 100 VCS and other not for profit organisations • Increase in Eco driving accreditation and training 	NCVS
<p>Use health and social care partners' commissioning powers to green the supply chain through sustainable procurement and contract and SLA requirements.</p>	<p>Agree sustainable procurement contract standards for commissioning H&SC providers including business travel and fleet activities. (Needs reinforce WTP and Go Ultra Low activities)</p>	✓				<p>Sustainable operations requirements within contracts and SLAs</p> <p>Sustainable procurement contract standards drafted and agreed</p>	<p>NCC</p> <p>Transport Strategy input to NCC Procurement</p>
	<p>Consult with stakeholders and partners through existing networks and partnerships</p>		✓			<p>Consultation with key stakeholders and partners.</p>	
	<p>Establish BSG supplier standards</p>		✓			<p>Approve and adopt sustainable procurement contract standards</p>	
	<p>Include standards in commissioning and procurement processes.</p>			✓		<p>Sustainable operations requirements embedded within all health and social care</p>	

						contracts and SLAs for Nottingham City.	
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ⁱ Baseline/target values notes:

- i. PM₁₀ is airborne particulate matter with a diameter of less than or equal to 10 micrometres which can enter the respiratory system and are consequently often called “inhalable”. Those smaller than PM_{2.5} can penetrate into the lungs and are often called “respirable”. The concentration of Nitrogen Dioxide, a brown gas, with the chemical formula NO₂ is measured in micrograms in each cubic metre of air (µg m⁻³). A microgram (µg) is one millionth of a gram. A concentration of 1 µg m⁻³ means that one cubic metre of air contains one microgram of pollutant.
- ii. Nitrogen dioxide, particles and carbon dioxide are the main pollutants emitted when fossil fuels e.g. natural gas, oil/petrol are combusted to power vehicles and provide heat and electricity for industrial, commercial, public/third sector/NHS and domestic use. Therefore reducing emissions can effectively reduce emissions that contribute to global climate change and local air pollution that impact on health and wellbeing. An emission reduction target (in addition to air pollution concentration targets) ensures practical measures to reduce emissions are being taken/demonstrated by HWB partners.
- iii. Highest annual mean concentration of nitrogen dioxide (NO₂) monitored at the facade of a residential property (an air pollution sensitive receptor) and annual mean particle PM₁₀ and PM_{2.5} concentration monitored in the Nottingham City Area. These enable direct comparison with the Air Quality Regulations, Air Quality Objectives and WHO guideline values. Each year’s targets were chosen to reflect the predicted effects of energy efficiency measures (in conjunction with Nottingham/Nottinghamshire’s Air Quality Strategy and Action Plans) and demonstrate how incremental progress can be made to achieve the Air Quality Regulation targets/Air Quality Objectives and World Health Organisation guideline values to protect health, by 2019/20.

ⁱⁱ Health and Wellbeing Board partners to identify leads to work with Action Owners to deliver on the success measure.

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