

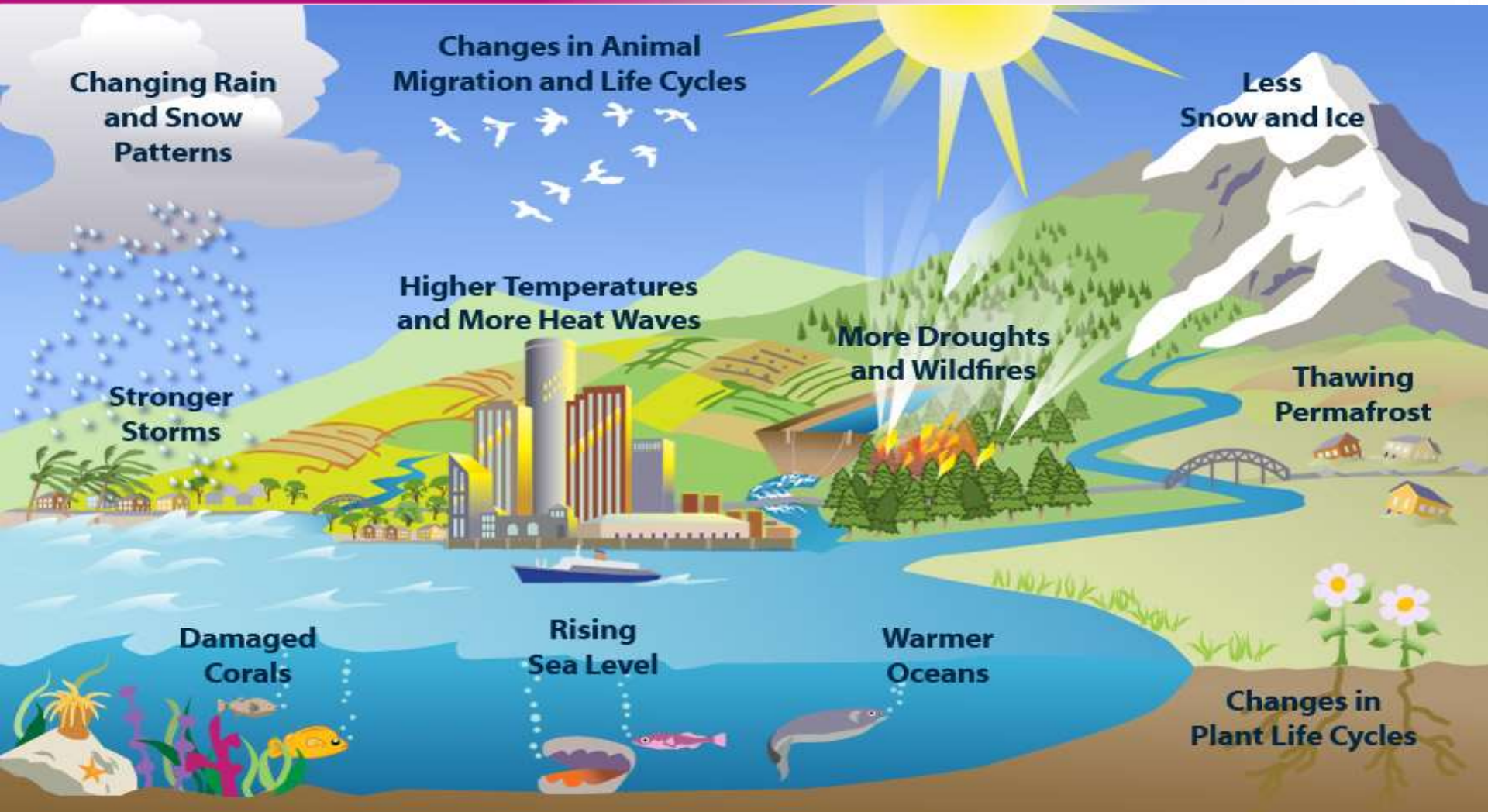


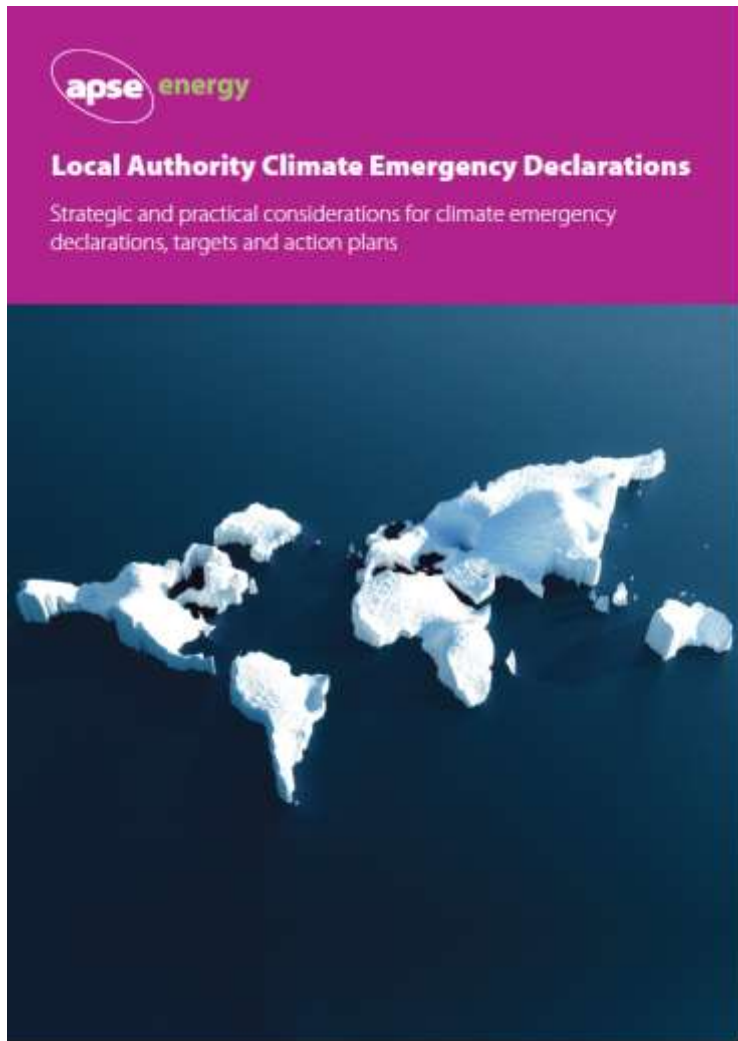
Building and Housing: Climate emergency and the green recovery

Paul O'Brien,
Chief Executive, APSE

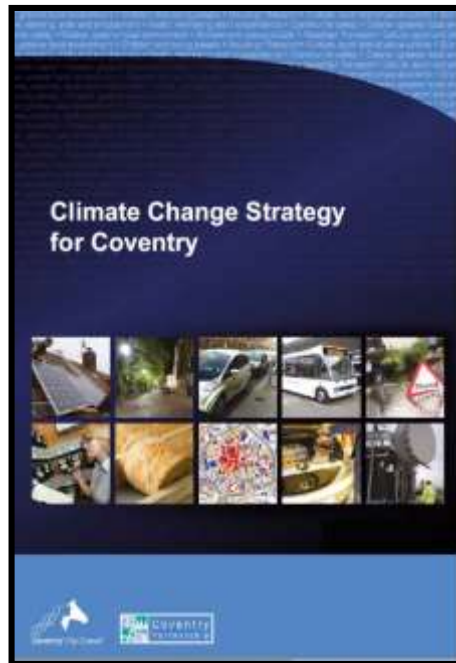
Covid recovery

- Intertwined with climate action plans
- Pre covid public policy crisis
 - ageing population, housing crisis, economy, climate change
- Covid speeding up transformation
- Employment





The Golden thread



Routemap on carbon eradication

Short

Property
energy
efficiency

Solar

Retrofit
programmes

Mid

Waste and
recycling

Electric fleet
infrastructure

Air quality

Wind

Long

Reinventing
the high street

Housing plan

District
heating
networks

6th Carbon Budget

- CCC 9 December
- 1,000 pages of additional papers
- 120 pages for local government
- Climate Change Act
- Long term goal net zero by 2050 or 2045
- 2032 to 2037 period
- Blueprint to full decarbonisation of UK

Timetable

- By 2035 cut greenhouse gas emissions by 78% on 1990 levels or 75% reduction by 2030 in Scotland
- If net zero by 2050 / 2045 then 60% of cuts in next 15 years
- By 2019 we have achieved a 41% reduction on 1990 emission levels

Actions in 4 key areas

- Reducing demand and improving efficiency
- Take up of low carbon solutions
- Expansion of low carbon energy
- Offsetting emissions

Role of behavioural and societal change

- 16% societal or behavioural change
- 43% low carbon technologies and societal behavioural change
- 41% low carbon technology on fuels

Timetable 2

- By 2025, 50% reduction, coal gone, new housing future homes standard, EV 50% of new
- By 2030, 64% reduction, all new assets zero carbon, 100% EV, 1m heat pumps installed 40GB offshore wind, Meat down 20%
- By 2035, 78% reduction, electricity system grown by 50%, 14m homes insulated, new gas boilers gone by 2033, Meat down by 25%
- By 2050, 100% down, everything net zero, gas gone other than that than can be carbon captured, oil gone other than for planes, electricity more than double, low carbon hydrogen 2/3rds of current electricity

Local authorities

- Disconnect between different tiers of government
- Planning inadequate, standard and location
- Local council key in terms of own footprint but supply chain, wider public sector, third sector, business

Areas for LA's to focus

Buildings

- Buildings, no new gas 2033 or 2025 in homes
- Public buildings phase out gas, no new gas boilers by 2030, no new oil boilers by 25/26, should achieve EPC C rating by 2028
- Reduce usage and flexible, batteries, smart meters shift to renewable energy usage

Transport

- Rapid shift to EV during next decade and beyond, 2032 all sales of new cars & vans EV. 1/3rd of all cars EV's by 2030, 90% 2040
- Charging infrastructure, car parks, battery storage facilities
- Reducing car mileage by 7-16% by 2030, 12 to 34% by 2050
- Investment in digital connectivity
- Shifting 33 to 35% of trips to walking, cycling and public transport
- Increase car occupancy, car clubs, Ebikes
- Bus fleet, zero emissions electrification / hydrogen. Air quality, public realm etc

Waste

- Reduce waste, increase recycling by 70% by 2030 / 2025, Food waste 50 to 60% reduction
- Phase out landfill, biodegradable waste by 2025, all waste banned by 2040

Electricity generation

- Doubled by 2050, electrification of heat and transport. Demand increased by 50% 2035, 100% by 2050
- Offshore wind dramatic increase, renewables contributing 90% of generation by 2050. Also onshore, solar, nuclear
- Need for places to locate solar, wind, battery storage etc

Land use

- 30,000 hectares of trees per annum by 2030, 50,000 by 2035, Scotland 18,000 hectares by 2025
- 20% reduction of consumption of meat and dairy by 2030, 35% by 2050
- Energy crops for biomass, 5% of agricultural land by 2050
- Flood prevention schemes, outdoor leisure, walking cycling encouraged

Recommendations for Govt and Local Govt

- Policy, Funding and support, Comms and engagement
- Net zero, 2030 plans, monitor, report
- Build capacity, training
- Collaborate, communicate, engage, develop green finance, L.A. pension funds

Housing and building pointers

- Cutting carbon emissions from homes and property
- Retrofit programmes
- Insulation
- Boiler replacement
- Heat pumps
- Electrification
- Charging infrastructure, battery storage
- Construction standards



Climate friendly housing service

Based in a low carbon premises / depot

Located next to a renewable energy site

Battery storage facility

Charging infrastructure for fleet

Skilled workforce

Building and maintaining low carbon property and renewable energy systems

NEW MUNICIPALISM

Delivering for local people and local economies



Contact details

Paul O'Brien, Chief Executive

Email: **po'brien@apse.org.uk**

@apsetweets

Association for Public Service Excellence
3rd floor, Trafford House, Chester Road,
Old Trafford, Manchester M32 0RS.
telephone: 0161 772 1810
web: www.apse.org.uk

