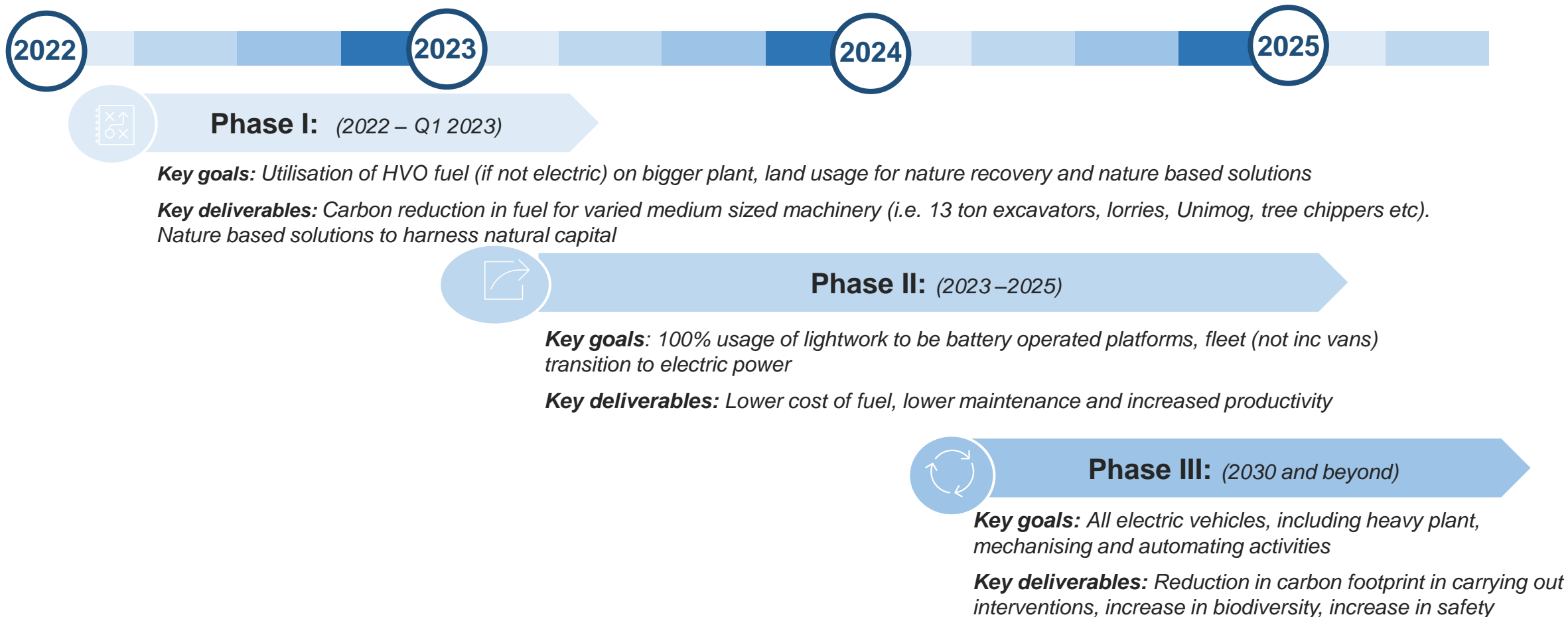


Landscaping Net Zero Carbon Plan



Category: Landscaping and Ecology

Carbon Net Zero Goals and Key Deliverables



People and plant is the highest contributor to the carbon footprint within this category. In the long term there is a growing need to mechanise and automate works which will require capital investment in both of these areas.

Category: Landscaping and Ecology

Carbon Reduction Initiatives

Carbon Reduction initiatives

Main Actions and next steps



Phase I:

(2022 – 2023)

- Land use strategy – getting the best use of our soft estate and achieve sustainable land use & Development of nature based solutions (NBS)
- Tree planting to promote carbon sequestration, sourcing native seeds
- Adopt Biodiversity Net Gain (BNG) metrics

- Alignment with development of land use system to achieve biodiversity net gains and net zero carbon initiatives
- Alignment with tree procurement strategy in sourcing seeds, planting and aftercare requirement
- Increasing biodiversity value on site by minimum 10% target



Phase II:

(2023 – 2025)

- Adoption of clean energy, electric hydrogen or electric for landscaping machinery and fleet
- Renewable energy utilisation – Solar PV
- Lightwork equipment to be battery operated

- OEM engagement to develop heavy duty non fossil fuel plant
- Solar power generation on the soft estate engagement with SES/OEM also dependant on investment
- Technology dependant 'battery range' increase needed
- Reduction in aesthetic maintenance to increase biodiversity



Phase III:

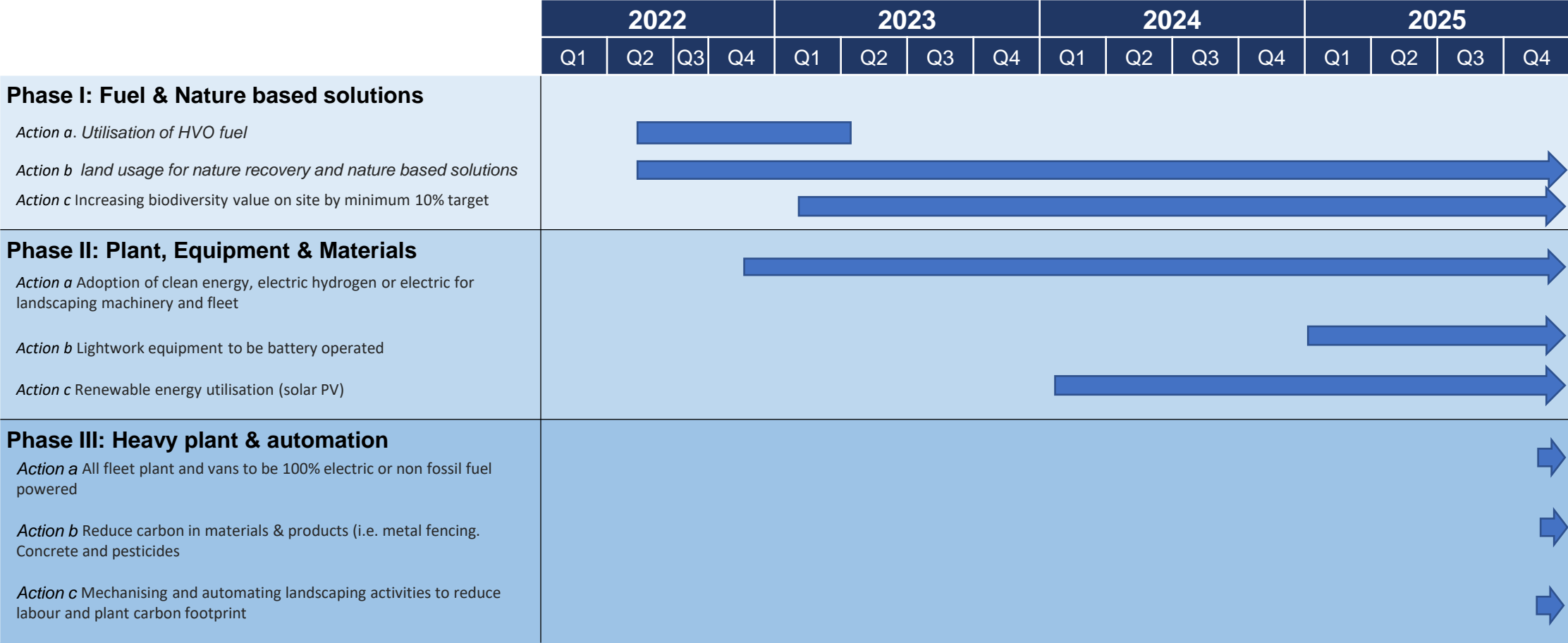
2025 and beyond

- All fleet plant and vans to be 100% electric or non fossil fuel powered
- Mechanising and automating landscaping activities to reduce labour and plant carbon footprint
- Reduce carbon in materials & products (e.g. metal fencing, concrete and pesticides)

- OEM engagement on evolution & technology dependent
- Long term objective, development needed
- Engagement with supply chain to understand alternatives

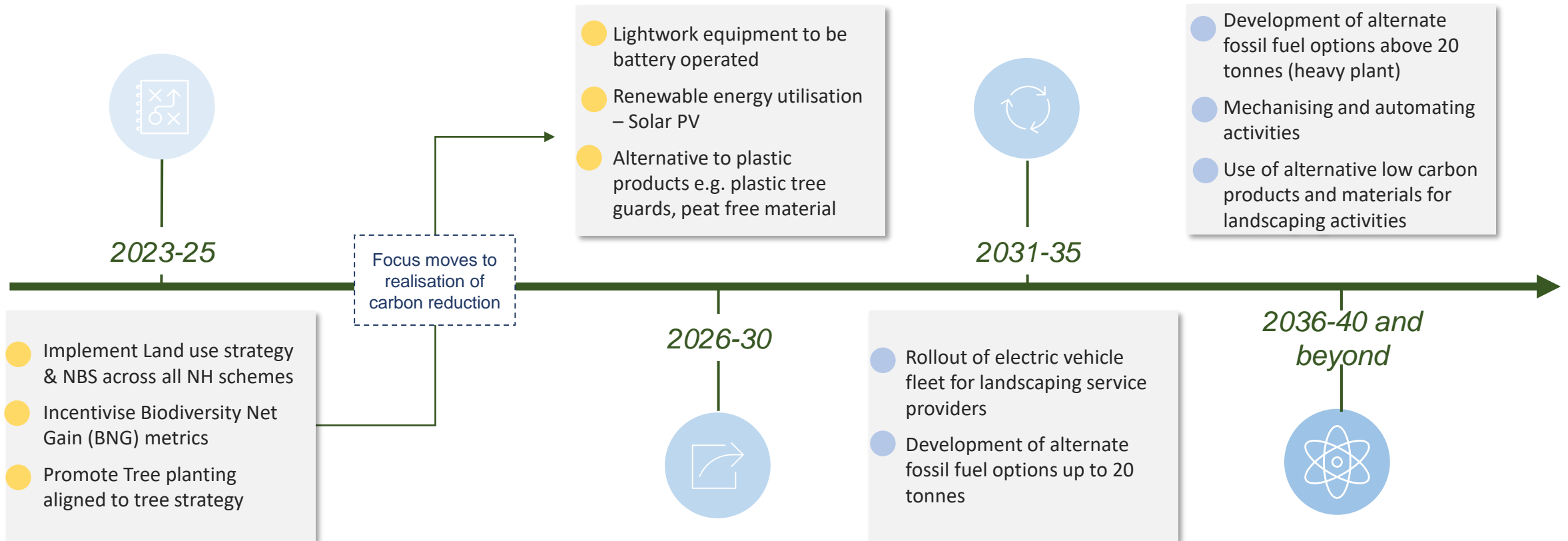
Category: Landscaping and Ecology

Detailed Timing Plan



Category: Landscaping and Ecology

Carbon Net Zero Initiatives Plan



It is key for National Highways to collaborate with the wider supply chain, OEM's and industry experts to achieve net zero by 2040. Alternatives to fossil fuel and battery operated equipment requires further development and investment to gather speed on its uptake. The vision to mechanise and automate landscaping activities and adoption of nature based solutions on the estate is key to achieving biodiversity net gains and leaving a legacy to benefit people, nature and the environment .

Legend:



Higher Impact



Lower Impact



Unknown Impact