

Embed zero carbon concepts into the Isle of Man Government and the wider community

1. EXECUTIVE SUMMARY

- 1.1. Embedding zero carbon concepts is a challenging and crucial part of reducing our carbon footprint, contributing towards net zero carbon emissions by 2050.
- 1.2. There is a need to consider how the concepts of carbon neutrality, ecosystem services and biodiversity might be placed at the heart of everything we do.
- 1.3. A simple and clear approach is needed to enable joined up working, realising potential and utilising all available assets.
- 1.4. System-wide alignment could help us to identify and articulate priorities and beliefs, finding common ground to engage, unite and inspire individuals, groups and organisations.
- 1.5. Three core principles are explored to enable this process to begin:
 - Our intentions and beliefs are visionary and strategic;
 - Our plans and actions are viable and sustainable and encourage self-reliance;
 - Our processes and delivery mechanisms ensure that all voices are heard and valued.
- 1.6. Processes to embed zero carbon concepts could be supported through an impact assessment which underpins all decision making and procurement in all publically funded bodies.
- 1.7. Additionally, revising the Programme for Government to encompass zero carbon concepts could raise their profile, enabling strategic and operational alignment to shared priorities and a common vision.
- 1.8. Importantly, aligning funding to support zero carbon concepts and priorities is necessary to support effective implementation and delivery.

2. ACTIONS

- 2.1. A series of actions have been developed for consideration in this paper. These could potentially be undertaken by realigning existing budgets with immediate effect.

Our intentions and beliefs are visionary and strategic

- 2.2. Embed zero carbon concepts into all procurement processes in all publically funded bodies. (see Work Package A2).

- 2.3. Develop shared core principles to underpin local system wide alignment (see Annex A) to complement global principles.
- 2.4. Embed a mandatory impact assessment (see Annex B) into all decision making processes in all publically funded organisations at all levels.
- 2.5. Review, update and align the Programme for Government (see Annex C) to support the embedding of zero carbon concepts.
- 2.6. Incorporate the United Nations Sustainability Development Goals (see Annex D) into a system wide strategic approach, making interdependencies explicit.
- 2.7. Develop an open source policymaking toolkit to be used by public, private and third sector organisations, making thinking and priorities explicit.

Our plans and actions are viable, sustainable and encourage self-reliance

- 2.8. Encourage a circular economy model, designing out waste and inefficiency, keeping products and materials in use at the highest possible value for the optimum time and recycling, reusing and repairing what we import and produce locally (see Work Package D).
- 2.9. Review the provision of necessary digital infrastructure, equipment and training to enable home and remote working (see Work Package E).
- 2.10. Consider the feasibility of conducting a zero or priority based bid process covering all publically funded bodies to ensure that all activity aligns to zero carbon concepts, whilst maintaining other essential work.
- 2.11. Collect and publically report data and carbon accounts for all publically funded bodies using all relevant mechanisms. Consider establishing annual stocktakes to review progress and plans.
- 2.12. Consider developing a clear framework for carbon accounting to enable consistent evaluation of carbon footprints, supporting the transition towards a carbon neutral Island.

Our processes and delivery mechanisms ensure that all voices are heard and valued

- 2.13. Identify and share transferable best practice, building on what has worked well in the past.
- 2.14. Develop and encourage system wide capacity to increase knowledge and skills, supporting growth and development of carbon neutral concepts and behaviours.

- 2.15. Consider the emotional health and wellbeing context of climate change.
- 2.16. Celebrate and highlight how Manx culture and heritage align with the importance of our natural environment. Support the 'Arts, Culture and Creativity for Everyone' strategy, encouraging key elements of embedding zero carbon concepts to be made available in the Manx language, where appropriate.
- 2.17. Work with the Chamber of Commerce to align thinking, test scenarios and share ideas through relevant working groups.

Annex A

Principles

- 1.1. The Climate Change Analytical Team engaged with a range of stakeholders to develop a series of simple draft principles to help to embed zero carbon concepts in the Isle of Man Government and wider community. These are aligned to six ethical principles agreed in 2017 by UNESCO in a 'Declaration on Ethical Principles in Relation to Climate Change' (Unesco.org, 2019).
- 1.2. The Isle of Man is a designated UN Biosphere Reserve with a focus on keeping the Isle of Man a special place to live, work and visit. The Biosphere is about celebrating our amazing landscapes, heritage and unique way of life.

1. Our intentions and beliefs are visionary and strategic

1.1. We are ambitious, brave and push boundaries

Sustainable development – promote the UN sustainable development goals (UNESCO).

- We have ambitious climate intentions.
- We have an international reputation for excellence and credibility.
- We celebrate success and collate case studies.

1.2. We lead by example, role modelling best practice

Quality of life – making sure we have the healthiest possible environment to support wellbeing (Biosphere Focus).

Tourism – raising awareness of our Island and making it an even more special place to visit (Biosphere Focus).

- We cherish and protect our ecosystem and biodiversity.
- We identify opportunities for innovation, welcoming change and reviews.
- We role model zero carbon concepts.

1.3. We are fair and proportionate, supporting wellbeing and ensuring that nobody is left behind

Solidarity – recognise the interconnectedness of physical, ecological and human systems and offer knowledge and assistance to groups vulnerable to climate change and natural disasters (UNESCO).

- We protect the most vulnerable in society.
- We are fair and proportionate.
- We are healthy and well.

2. Our plans and actions are viable, sustainable and encourage self-reliance

2.1. We make informed decisions which are evidence based, balanced and feasible

Scientific knowledge and integrity in decision-making – decisions should be based on the best available knowledge (UNESCO).

- We gather, use and report on consistent and reliable data.
- We match resources to priorities.
- We commission Research and Development to identify and fill knowledge gaps.

2.2. We turn our words, ideas and intentions into tangible actions and opportunities

Precautionary approach – facing threats of serious harm, lack of full scientific evidence should not prevent or postpone preventative measures (UNESCO).

Economy – helping to attract more investment to the Isle of Man (Biosphere focus).

- We enable a circular and local economy, encouraging new business models.
- We are easy to work with and incentivise effective delivery.
- We have a robust and enabling infrastructure.

2.3. We are open minded, welcoming change and new ways of doing things

Equity and justice – fair treatment and involvement of all people, safeguard the planet for future generations (UNESCO).

- We grow sustainable markets, encouraging diversification.
- We have an enabling regulatory framework including proportionate monitoring, public accountability, penalties and enforcement.
- We learn and adapt to changing circumstances.

3. Our processes and delivery mechanisms ensure that all voices are heard and valued**3.1. We work together for the greater good, recognising interdependencies**

Prevention of harm – anticipate, avoid and minimise harm, both from impacts and actions (UNESCO).

- We build positive relationships.
- We have shared ownership and responsibility and actively manage interdependencies.
- We are joined up, consult and co-create, facilitating networking and collaboration.

3.2. We do the right thing to make future generations proud

National pride – a global accolade like this fosters pride in everything from our outstanding natural environment to our unique culture and heritage (Biosphere Focus).

- Our thinking, intentions and actions are balanced, fair and transparent.
- Our young people are engaged and included in decision making and implementation.
- We build capacity and awareness through education and skills.

3.3. We include everybody, unleashing potential and celebrating diversity

Stronger partnerships – between the voluntary sector, business and government, helping everyone to achieve more (Biosphere focus).

- We build capacity through lifelong learning and training.
- Credibility and standards.
- We encourage social cohesion and community action and engagement.

Delivery mechanisms identified by the climate change analytical team to encourage change and adaptation align with features for consideration from the Isle of Man Climate Challenge Mitigation Strategy (CCMS) 2016-2020 (Isle of Man Government, 2016) :

1. **Communications:** Motivate and celebrate success.

- Scope for local influence (CCMS).
- Likely level of public support (CCMS).

2. **Joined up working:** Inclusive leadership and decision making and a common approach to a just transition (see Work Package W).

- Effectiveness (CCMS).
- International trends and influences (CCMS).

3. **Build Capacity:** Develop enabling systems and processes and encourage self-sufficiency.

- Achievability (CCMS).
- Capacity for a highly effective long-term outcome (CCMS).

4. **Incentivise:** Align subsidies, resources, purchasing and investments to zero carbon and bio-diversity priorities.

- Government stakeholder appetite and preferences (CCMS).
- Capacity for a 'quick win' (CCMS).

5. **Regulate:** Robust enforcement including penalties.

- Impact on consumer costs (CCMS).
- Legislative requirements (CCMS).

6. **Monitor and Review:** Intelligent accountability, measures what matters.

- Ability to measure effectiveness (CCMS).
- Value for money (CCMS).

Annex B
Impact Assessment

A Mandatory zero carbon concepts impact assessment could inform decision making and reporting at all levels, phases and stages within publically funded organisations, including procurement processes. It could become part of our everyday conversations, influencing priorities and reactions. More work is required to refine this approach, and align it to different government processes.

PLANNING TO ASSESS IF THERE IS LIKELY TO BE AN IMPACT ON ZERO CARBON CONCEPTS OR BIODIVERSITY

Outline the starting point and intentions for the future, including desired impact. Highlight any gaps, actions to address them and success criteria.

1. To what extent is the proposed approach:

- Visionary and strategic?
- Viable and sustainable?
- Inclusive and engaging?

2. To what extent, in what timeframe and at what cost will the proposal:

- Remove or reduce carbon emissions?
- Take carbon out of the atmosphere?
- Support renewable, sustainable alternatives to carbon?
- Protect biodiversity and healthy, resilient eco-systems?
- Support climate change adaptation?

3. How are resources aligned to priorities?

- What can be done through efficiency savings and realigning existing resource?
- What new resource is needed and where will this come from?
- How will the impact be measured and monitored and inform continuous improvement?

Annex C**Suggested revisions to the existing Programme for Government**

The Programme for Government (PfG) is a well-placed strategic vehicle to embed zero carbon concepts in the Isle of Man government and wider community. All departments in the Isle of Man Government could contribute towards reviewing process by adding relevant Key Performance Indicators relating to zero carbon concepts to deliver the new outcomes, national indicators and actions. There follow some initial suggestions around how the net zero carbon concept could be captured within the Programme for Government.

SUGGESTED UPDATES**1. Building Capacity**

1.1. Add 1 new strategic objective – **Net Zero Carbon Island**

1.2. Add 3 new macro indicators

- Reduce carbon emissions
- Increase carbon capture
- Promote healthy and resilient ecosystems and protect biodiversity

2. Regulation

2.1. Update the Sustainable Island outcome “We have a planning system which supports sustainable growth.” To say “We have a planning system which supports sustainable growth and address climate change mitigation and adaptation.”

2.2. Add a principle to planning “Any proposed development must be able to demonstrate clearly and concisely a positive environmental and sustainable impact in excess of what the proposed developable area currently provides.”

2.3. Add a national indicator in planning about encouraging reduced carbon emissions and more carbon capture. Add actions about updating planning and building regulations to reflect zero carbon concepts.

2.4. Review the Sustainable Island outcome “We have a natural and build environment which we conserve and cherish and which is adapted to cope with the threats from climate change.” And add any new national indicators and actions required to embed zero carbon concepts and update the existing ones about waste management and energy efficiency schemes. Add target on tree planting as a KPI.

3. Education

- 3.1. Update Enterprise and Opportunity Island outcome "We have an education system which matches our skills requirements now and in the future." To include a new national indicator about embedding zero carbon concepts throughout all systems and processes. Consider new actions including embedding climate science throughout the curriculum and accreditation processes and reviewing the skills match between existing provision and future requirements considering the transformation once zero carbon concepts are embedded.

4. Infrastructure

- 4.1. Update Enterprise and Opportunity Island outcome "We have an infrastructure which supports social and economic wellbeing." To say "We have an infrastructure which supports our **climate**, social and economic wellbeing." Add new actions about park and ride options to embed Zero Carbon Concepts.
- 4.2. Update the Enterprise and Opportunity Island outcome "We have utilities that support our Island, communities and business." To say "We have utilities that support our Island, **climate**, communities and business." Add national indicators about embedding the need to reduce fossil fuels, increase generation of renewable energy. Update the national indicator "Contain greenhouse gas emissions." Also update the same national indicator in Responsible Island, "We engage, participate and are respected internationally." Add new actions about updating the grid infrastructure, revising the Electricity Act and encouraging the generation, distribution and efficient use of renewable energy.

5. Efficiency

- 5.1. Review the Inclusive and Caring Island outcome "We have affordable and accessible housing which meets our social and economic needs." to say "We have affordable and accessible housing which meets our **climate**, social and economic needs." Add national indicators to embed zero carbon concepts for example improve insulation, LED light bulbs, heat pumps.

Annex D**Sustainable development goals mapped to suggested core principles**

The Sustainable Development Goals (SDG) are a blueprint to achieve a better and more sustainable future for all. 17 goals, underpinned by 169 targets and 232 approved indicators to measure compliance were set by the United Nations in 2015 for delivery by 2030 (Sustainabledevelopment.un.org, 2019).

OUR INTENTIONS AND BELIEFS ARE VISIONARY AND STRATEGIC**1. We are ambitious, brave and push boundaries.**

- SDG11 Sustainable Cities and Communities Goals.

2. We lead by example, role modelling best practice.

- SDG13 Climate Action.

3. We are fair and proportionate, supporting wellbeing and ensuring that nobody is left behind.

- SDG1 No Poverty.
- SDG2 Zero Hunger.
- SDG3 Good Health and Wellbeing.
- SDG16 Peace, Justice and Strong Institutions.

OUR PLANS AND ACTIONS ARE VIABLE, SUSTAINABLE AND ENCOURAGE SELF-RELIANCE**4. We make decisions which are evidence based, balanced and feasible.**

- SDG14 Life Below Water.
- SDG15 Life on Land.

5. We turn our words, ideas and intentions into tangible, incentivised actions and opportunities.

- SDG4 Quality Education.
- SDG6 Clean Water and Sanitation.
- SDG8 Decent Work and Economic Growth.

6. We are open minded, welcoming change and new ways of doing things.

- SDG9 Industry, Innovation and Infrastructure.

OUR PROCESSES AND DELIVERY MECHANISMS ENSURE THAT ALL VOICES ARE HEARD AND VALUED**7. We work together for the greater good, recognising and managing interdependencies.**

- SDG17 Partnerships for the Goals.

8. We do the right thing to make future generation proud.

- SDG12 Responsible Consumption and Production.

9. We include everybody, unleashing potential and celebrating diversity.

- SDG5 Gender Equality.
- SDG10 Reducing Inequality.

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