

IEMA Connect 2023: From strategy to delivery - building the capability to embed sustainability

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Challenges in embedding sustainability

100 year mission

£7.5bn capital programme

How do I make sustainability part of our core mission?



10,000 staff

40,000 supply chain

How do I reach all of these people?



External and organisational change

Shifting priorities

How do I keep my sustainability strategies and plans on track?



Influence and set the right strategies and plans

Underpin these with risks, opportunities and decisions

Track your progress, and communicate successfully

We are creating a clean and safe environment for future generations

Safe, secure sustainable, site stewardship

Progress at pace

Lifetime value for money



We will estimate our carbon footprint and measure our reduction of it, across the lifetime of our facilities.



Improvements in our Demand

NEW EQUIPMENT
As an interim step we have switched some equipment from diesel fuel to Hydrogenated Vegetable Oil (HVO). This is a direct replacement for diesel so no changes are required and it has a much lower carbon footprint.
As well as street lights, LED Lighting has been installed on many of our existing facilities.
Our engineering and maintenance teams are identifying more efficient equipment to reduce energy demand on our facilities. We have modernised our existing transport fleet and changed some of our vehicles to electric or to ULEV (Ultra Low Emissions) charging points and we are planning to install more as we continue to review and develop our fleet.
We have replaced some of our ageing diesel locomotives with Diesel-Electric Hybrids.

200
Street lights on site have been converted to LED saving 40% of total street lighting.

31
Vehicles were changed over to Ultra Low Emission Vehicles

52
Tower lights on site are now solar, with diesel tower lights only used for essential site security work

Sellafield Ltd

Carbon Management Transition Plan

Embedding Carbon Management in our Business

Carbon Management Transition Plan | 2023

Programmes & Projects

The delivery of our programmes and projects impacts on our current carbon emissions but also sets our future emissions for many decades. We must consider carbon through the full lifecycle of our programmes and projects to ensure the total footprint is minimised.

We have already taken steps to include Carbon in Business Cases and this requirement will develop over time to embed a consistent and proportionate approach.
Our projects capability are committed to embedding life-cycle carbon considerations into delivery and have identified a range of areas to target including:

- Developing sustainability selection criteria for optimising
- Using appropriate national guidance to set standards
- Setting project reduction targets for carbon, energy usage, and raw materials

The innovation of our design teams is key to reducing carbon. Keeping our design standards up to date will be essential to enable the use of low carbon alternatives where appropriate.
Our projects rely on our procurement and supply chain processes. It is important that we set expectations that ensure we get the outcome we want while allowing our delivery partners to offer lower carbon solutions.

WE ARE

1. Getting carbon into our thinking from the very start will give us the best chance of reducing our footprint!

2. What does carbon management mean to us?

3. Not everyone's projects will incorporate whole lifecycle assessment by 2025. We will support our SDA to create a consistent group-wide approach.

PROGRAMME & PROJECT PARTNERS AT SELLAFIELD

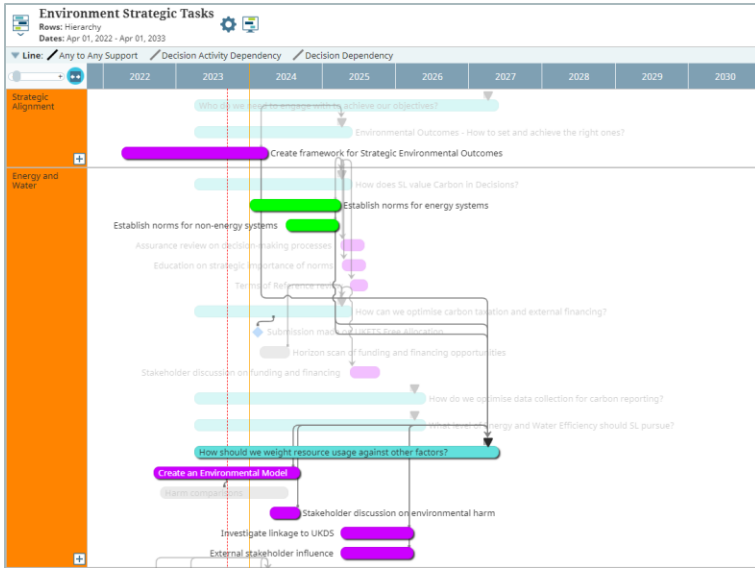
80% have used the expertise available across the team to develop an approach to life cycle carbon reduction by FY23.

We are driving on SPP expenditure as we develop our approach.

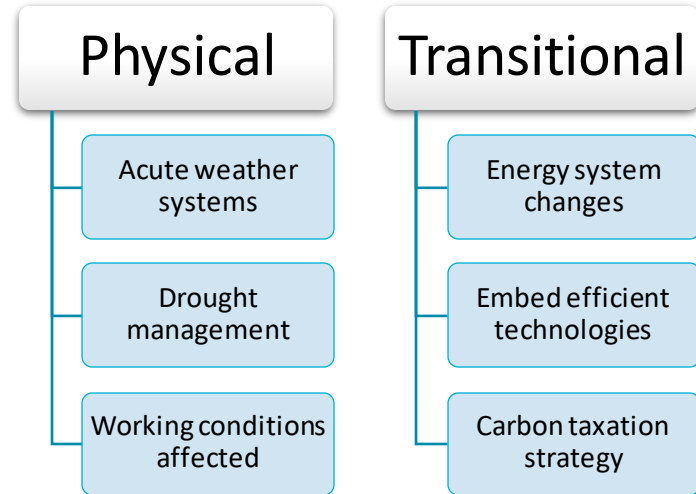
*Influence and set
the right strategies
and plans*

*Underpin these with
risks, opportunities
and decisions*

*Track your progress,
and communicate
successfully*



*What are your environmental
challenges, and what decisions do you
need to take and when?*



*What environmental risks does your
organisation face and how will you
mitigate these?*

*What opportunities exist to be a more
sustainable organisation, and what are
the benefits?*

Influence and set the right strategies and plans

Underpin these with risks, opportunities and decisions

Track your progress, and communicate successfully

Our Targets

Scope 1 & 2 reduction of **5%** in 2021/22

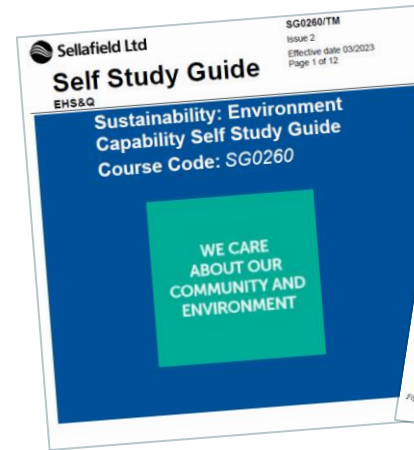


Scope 1 & 2 reduction of **70%** on or before 2030

Scope 1 & 2 reduction of **90%** on or before 2050

Scope 3 reduction of **80%** on or before 2050

Provide help and training



Track your progress and share with business leaders



Speak to a diverse audience

*Influence and set
the right strategies
and plans*

*Underpin these with
risks, opportunities
and decisions*

*Track your progress,
and communicate
successfully*

Sustainable Transport

Travel is an essential part of daily life. It helps us move ourselves to work and the goods we need to be able to complete our jobs. It does however, come at a cost. It is a cost that is measured and forms part of our reported carbon footprint. This includes the movement on site and our commuting. It also affects the local environment with traffic congestion and many other negative aspects. In order to maximise the benefits and reduce the negative impacts, Sellafield Ltd have a Travel Plan. This looks to set out the way we want to move our people and materials around in a way that considers the pluses and minuses. Looking at some of the elements we have:

Travel to our sites

Every weekday over 8,000 vehicles travel on the A595. More than 6,000 of these vehicles are accessing the Sellafield site making Sellafield responsible for 75% of the traffic on the A595.

Sellafield is aware of how this could negatively impact the environment stating, "we have a duty to try and reduce this congestion as much as possible".

Future construction work on and near to the Sellafield site will only increase the pressure to the surrounding road network and car parking on and near to the site. The commuter traffic to our sites has increased as we settle into agile working. This is made obvious by the amount of traffic on the usual routes at in and out muster times.

There is no single answer to the problem and the Travel Plan offers a suite of measures to support a more sustainable local infrastructure, much of the improvement is associated with behaviours rather

*Tell your workforce and
stakeholders what part
they can play...*

*...and celebrate your
successes!*

Social Value

Resilient Economies

This objective seeks to address local economic inequalities using growth in the nuclear sector but also through increasing the scale, diversity and development of existing sectors and new economic opportunities. By utilising our mission we aim to attract and create new investment, knowledge, ideas, innovation, capability and resources that contribute to more inclusive and distributed local economies.