



A closer look into Sustainability

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1 NO
POVERTY



2 ZERO
HUNGER



3 GOOD HEALTH
AND WELL-BEING



4 QUALITY
EDUCATION



5 GENDER
EQUALITY



6 CLEAN WATER
AND SANITATION



7 AFFORDABLE AND
CLEAN ENERGY



8 DECENT WORK AND
ECONOMIC GROWTH



9 INDUSTRY, INNOVATION
AND INFRASTRUCTURE



10 REDUCED
INEQUALITIES



11 SUSTAINABLE CITIES
AND COMMUNITIES



12 RESPONSIBLE
CONSUMPTION
AND PRODUCTION



13 CLIMATE
ACTION



14 LIFE
BELOW WATER



15 LIFE
ON LAND



16 PEACE, JUSTICE
AND STRONG
INSTITUTIONS



17 PARTNERSHIPS
FOR THE GOALS



**SUSTAINABLE
DEVELOPMENT
GOALS**

17 goals, 169 targets, 232 indicators



12 RESPONSIBLE CONSUMPTION AND PRODUCTION

TARGET 12-C

REMOVE MARKET DISTORTIONS THAT ENCOURAGE WASTEFUL CONSUMPTION

TARGET 12-1

IMPLEMENT THE 10-YEAR SUSTAINABLE CONSUMPTION AND PRODUCTION FRAMEWORK

TARGET 12-2

SUSTAINABLE MANAGEMENT AND USE OF NATURAL RESOURCES

TARGET 12-3

HALVE GLOBAL PER CAPITA FOOD WASTE

TARGET 12-4

RESPONSIBLE MANAGEMENT OF CHEMICALS AND WASTE

TARGET 12-5

SUBSTANTIALLY REDUCE WASTE GENERATION

TARGET 12-6

ENCOURAGE COMPANIES TO ADOPT SUSTAINABLE PRACTICES AND SUSTAINABILITY REPORTING

TARGET 12-7

PROMOTE SUSTAINABLE PUBLIC PROCUREMENT PRACTICES

TARGET 12-8

PROMOTE UNIVERSAL UNDERSTANDING OF SUSTAINABLE LIFESTYLES

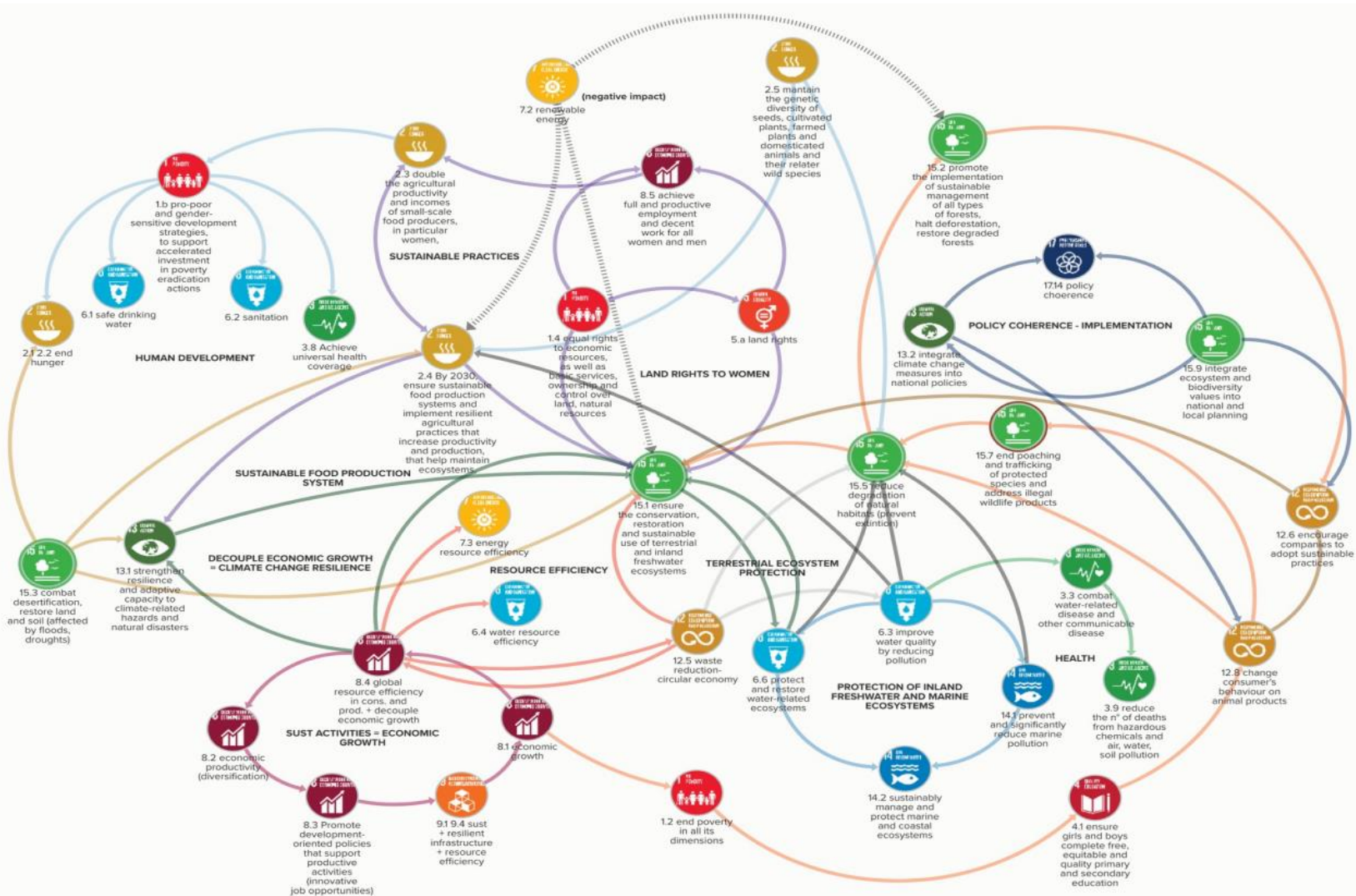
TARGET 12-B

DEVELOP AND IMPLEMENT TOOLS TO MONITOR SUSTAINABLE TOURISM

TARGET 12-A

SUPPORT DEVELOPING COUNTRIES' SCIENTIFIC AND TECHNOLOGICAL CAPACITY FOR SUSTAINABLE CONSUMPTION AND PRODUCTION





Voluntary National Reviews



United Nations

**High-Level Political Forum
on Sustainable Development**

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- Secretariat



**HIGH-LEVEL POLITICAL FORUM
ON SUSTAINABLE DEVELOPMENT**

VOLUNTARY NATIONAL REVIEWS

VNRS

VNRs Countries

Lessons Learned
and Best
Practices

Tools

Inputs

Major Groups &
Other
Stakeholders

HLPF



Practical use of the SDGs to activities



Direct impacts to SDGs occur through direct interaction of an activity we undertake (e.g. strategy, project, decision). They can normally be measured quantitatively.

Indirect impacts to SDGs are those which are not the direct result of an activity, often produced as the result of complex impact pathways.

There may be some goals on which the activity has **no impact**.

100% recycled nuclear vessel



- 🌐 The decommissioning of Oceanic Pintail recycled **100% of the 3,865-tonne specialist nuclear vessel**.
- 🌐 Demonstrated the embedding of **circular economy principles to recycle materials to protect and enhance the environment**.
- 🌐 Achieved by **working collaboratively** with contractors, combining ambitious targets with **innovative solutions**.

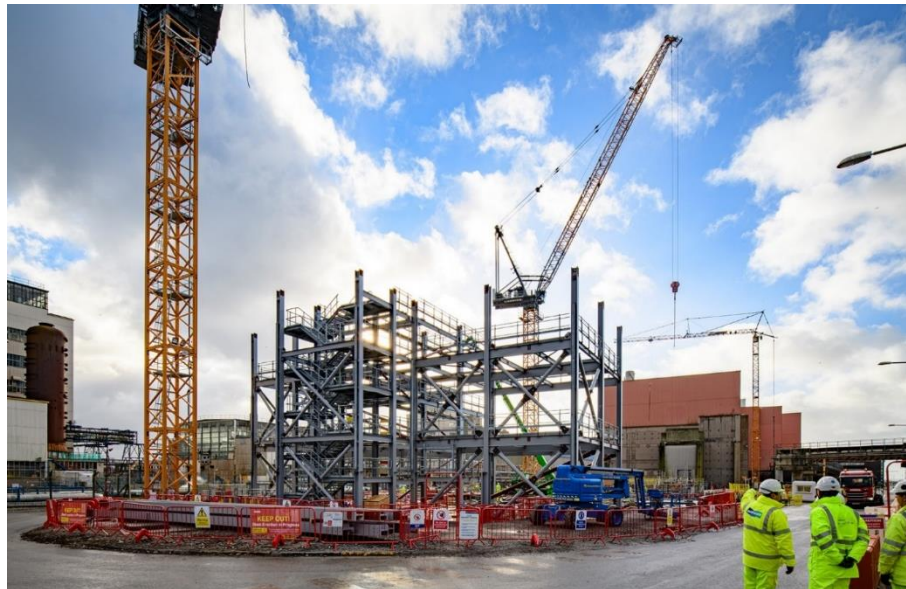
Material reduction



- 🌐 Consideration of material use in studies phase
During the optioneering studies for a new continuity plant for effluent treatment, project considered limited refurbishment of the remaining reception and discharge systems. This resulted in the **reduced requirement for materials such as concrete and steel.**

- 🌐 Reduction in bulk shielding concrete
A reduction in bulk shielding thickness was the main contributor to the **reduced use of shielding concrete saving approx. 3,000 m3 of concrete.**

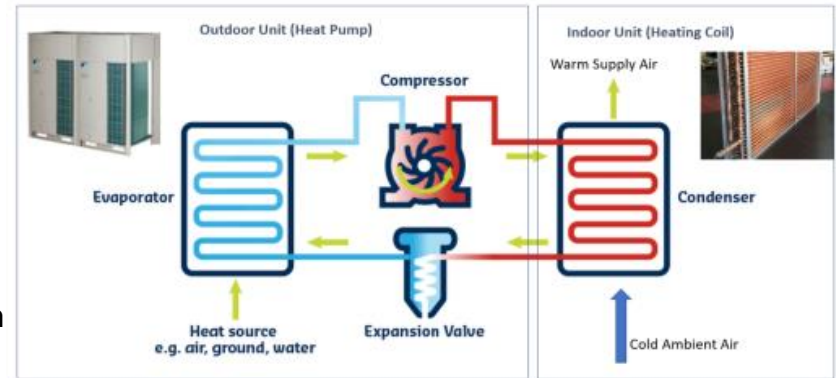
- 🌐 Optimisation of plant and equipment
Design Change Proposals were approved to rationalise the plant, **achieving material reductions.** This resulted in the removal of surplus valves and steam traps, 5 steam cabinets and related drain and ventilation. In addition, a reduction in the mass of compressors by approximately 25x lower was implemented.



Change of heat source



- Historically, building services for major projects have utilised steam as the source of heat.
- A **new and innovative approach** to heating, ventilation, and air conditioning system design based on direct exchange **heat pumps** will lead to a substantially **reduced carbon footprint**, when compared to steam.
- Potential carbon savings over 100 year lifetime:
 - Plant 1 - **67% carbon savings, equivalent to 32,000 tCO₂e.**
 - Plant 2 - **73% carbon savings, equivalent to 3,600 tCO₂e.**
- Operational cost savings have been estimated at £12m over the lifetime with further cost and carbon savings when adopted as business as usual on all future projects.



Practical use of the SDGs to activities



Direct impacts

Analyse the activity holistically: which SDGs are mostly impacted in a direct way? Can you describe impacts qualitatively? Are impacts positive or negative? Can you quantify them? Can you maximise positive impacts and minimise negative ones?

Indirect impacts

Regarding the remaining SDGs: any SDG is indirectly impacted? Can you describe impacts qualitatively? Are impacts positive or negative? Can you quantify them? Can you maximise positive impacts and minimise negative ones?

Conclusions



Do not feel overwhelmed or alien to Sustainability – the UN SDGs are here to help

Use a Sustainability analysis in the assessment of activities - analyse the hidden connections and the impacts, positive and negative ones too

Be outcomes based focused – be clear on the desired positive impacts and work backwards



**Ensuring Safety and
Enabling Sustainability**



Thank you