# **Marine Plan Areas Sustainability Appraisal**

Sustainability Appraisal Scoping Report (covering the North East Inshore and Offshore, North West Inshore and Offshore, South West Inshore and Offshore and South East Inshore Marine Plans)



Project funded by: The Marine Management Organisation







**Report prepared by**: Ramboll Environ, Marine Planning Consultants and ClearLead Consulting Ltd.

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## 1 Introduction and Purpose of this Report

### 1.1 Introduction

The Marine Management Organisation (MMO) is currently preparing the remaining<sup>1</sup> English marine plans (North East Inshore and Offshore, North West Inshore and Offshore, South West Inshore and Offshore and South East Inshore marine plans). These will set out how the UK Marine Policy Statement will be implemented in these plan areas.

Marine plans, and their reflection of the UK Marine Policy Statement (<a href="www.gov.uk/government/publications/uk-marine-policy-statement">www.gov.uk/government/publications/uk-marine-policy-statement</a>), contribute to a plan-led regulatory system for marine activities. They provide greater coherence in policy and a forward-looking, proactive and spatial planning approach to the management of the marine area, its resources, and the activities and interactions that take place within it. Once prepared the marine plans will cover a 20 year period and will be reviewed regularly throughout this time.

The next phase of marine plans will seek to take account of social, economic and environmental factors that affect the North East, North West, South West and South East marine plan areas and the communities that are dependent on or have an interest in the marine plan areas.

The marine plans will be subject to an integrated Sustainability Appraisal (hereafter referred to as SA) and Strategic Environmental Assessment (SEA) in line with the requirements of Statutory Instrument 2004 No. 1633: The Environmental Assessment of Plans and Programmes Regulations 2004.

This scoping report is the first formal output of the SA process. The scoping report provides baseline information on the environmental, social and economic characteristics of the marine plan areas, including the likely evolution of the baseline without the marine plans<sup>2</sup>.

The scoping report has been prepared by Ramboll Environ, Marine Planning Consultants and ClearLead Consulting Ltd on behalf of the MMO.

## 1.2 Structure of the Scoping Report – a new approach

The purpose of SA scoping is to define the scope and level of detail of the assessment and to provide the statutory consultation bodies with the opportunity to comment on "the scope and level of detail of the information that must be included in the report", SI 2004 No. 1633 PART 3 12.—(5).

<sup>&</sup>lt;sup>1</sup> To date, four marine plans have been produced under the Marine and Coastal Access Act 2009. England's East Inshore and Offshore Marine Plans were published in April 2014. The South Marine Plan (inshore and offshore) are shortly to be published in draft form for consultation.

<sup>&</sup>lt;sup>2</sup> Although the likely evolution of the baseline without the marine plans is likely to be further developed through the SA process

The primary purpose of data collection at this stage is to help set the scope of the SA (ie what factors are to be scoped in (included) and scoped out (not included) of the appraisal stage of the SA). This information is then used to develop a SA framework, against which the plan will be appraised.

A secondary purpose is to assemble an evidence base which can be used to inform the appraisal of the plan. It should be noted, however, that this process will continue through the SA process and a more detailed baseline data collection may be needed once the appraisal of the marine plans and their alternatives is underway.

Collection of baseline data is an important part of SA. However, SA (or indeed planning) is not about collecting data for the sake of it. The overall approach to this scoping report has been to focus on collecting data and information that is crucial to the decision making process and then using this to effectively scope in (and out) those issues that are relevant to each plan. Please note that the word "issues" has been used to denote potentially negative issues (problems) and positive issues (opportunities) and refers to issues which are significant in helping to set the scope of the SA. Issues which are significant to the plan making process will be developed as part of the planning process. There could be some overlap between these issues but they are likely to be considered in more detail as part of the plan making process. This is consistent with SA best practice.

SA scoping reports have traditionally been long text based documents which have attempted to collect all the necessary data at the early scoping stage. However, at the scoping stage there is often uncertainty regarding the level of detail or exact scope of the plans to be appraised. This can lead to unnecessary data being collected or data being collected that is at the incorrect level of detail or spatial scale. Therefore, the primary purpose of this scoping report is to collect the data which is appropriate to the decisions to be taken at the scoping stage with regards to the coverage and the level of detail of the assessment. The data that has been collected will be useful in assembling an evidence base (both for the SA and for the marine plans) but there is an acknowledgement that this does not represent all the data / evidence that could be needed to appraise the marine plans.

This scoping report has also taken a new approach to presentation, as follows:

- A fully searchable baseline database has been produced as part of the SA scoping process. This baseline database includes information that can help to characterise the plan areas, identify impacts upon receptors, legislative and policy targets and objectives that should be met, issues that have been identified for each sub topic and also identifies known data gaps. This database is considered to be a starting point, underpinning scoping decisions and can be built upon as the SA and marine plan processes develop; and
- A series of report cards have been produced which provide a more accessible way of interpreting the findings of the SA scoping process. Expert judgement has been used to determine which elements of the baseline / issues have been discussed on the report cards. The report cards have then been used to define the scope of the SA.

Taking all of the above into account, the format of this report is as follows:

- Section 1 (this section) sets out an introduction to the report and outlines the consultation that has been undertaken as part of SA scoping;
- Section 2 sets out background to the marine plans and details of their scope and remit;
- Section 3 sets out an introduction to the SA process:
- Section 4 sets out the methodology of the SA scoping;
- Section 5 sets out the results of the SA scoping with regard to the topic scope of the SA;
- Section 6 sets out the results of the SA scoping with regard to the geographical and temporal scope of the SA, the level of detail of the SA and how the SA report will deal with other pertinent issues<sup>3</sup>;
- Section 7 outlines details of two related appraisal processes, Habitat Regulations Assessment and Equalities Impact Assessment; and
- Section 8 outlines the next steps for the marine plans process and the SA.

### 1.3 Consultation

This scoping report is the primary mechanism for consulting on the scope and level of detail of the SA, and is being consulted upon in accordance with the requirements of Regulation 12(5) and (6) of the SEA Regulations<sup>4</sup>. To adhere to these regulations it needs to be sent to the following statutory bodies:

- Natural England (NE);
- Historic England (HE); and
- The Environment Agency (EA).

In addition, the scoping report has also been issued to the following organisations for comment:

- Associated British Ports;
- Association of Inshore Fisheries and Conservation (IFCA);
- British Marine Aggregate Producers Association (BMAPA);
- Chamber of Shipping;
- Department for Environment, Food and Rural Affairs (DEFRA);
- Devon Coastal Partnership;

- Durham Heritage Coast;
- Joint Nature Conservation Committee (JNCC);
- National Federation of Fishermen's Organisations (NFFO);
- North-West Coastal Forum;
- Wildlife and Countryside Link;
- Oil and Gas UK: and
- Renewables UK.

<sup>&</sup>lt;sup>3</sup> Please note that this report does not address in detail how the appraisal will be undertaken. It is not necessary to consult on the methodology that will be used at the appraisal stage and this will be developed once the scope of the marine plans (and their alternatives) are clearer.

<sup>&</sup>lt;sup>4</sup> The Environmental Assessment of Plans and Programmes Regulations 2004 SI No.1633

- Royal Yachting Association (RYA);
- Severn Estuaries Partnership;
- Tamar Estuaries
   Consultative Forum;

- Thames Estuary Partnership;
- The Crown Estate;
- Marine Scotland (The Scottish Government);
- Visit England;
- Welsh Assembly.

A number of these organisations, in addition to the statutory bodies and the MMO, form the SA Advisory Group. The full list of the members of the SA Advisory group is given below:

- Associated British Ports:
- Association of Inshore Fisheries and Conservation (IFCA);
- British Marine Aggregate Producers Association (BMAPA),
- Chamber of Shipping;
- Devon Coastal Partnership;
- Durham Heritage Coast;
- Historic England;
- Joint Nature Conservation Committee (JNCC);
- Natural England;
- National Federation of Fishermen's Organisations (NFFO);

- North-West Coastal Forum:
- Royal Yachting Association (RYA):
- Severn Estuaries Partnership;
- Tamar Estuaries Consultative Forum;
- Thames Estuary Partnership;
- The Crown Estate:
- The Environment Agency (EA); and
- Marine Scotland (The Scottish Government)

The overall objective of the advisory group is to guide and advise on the delivery of the SA for the North East Inshore and Offshore, North West Inshore and Offshore, South West Inshore and Offshore and South East Inshore marine plans.

The advisory group provides objective procedural, technical and general advice:

- To facilitate the marine plan SA process;
- To input, as appropriate to each stage of the SA process (scoping, appraisal of alternatives, appraisal of the draft plan and SA reporting);
- To promote stakeholder involvement;
- To ensure appropriate consideration of relevant information, including that arising from consultations; and
- To achieve timely preparation of quality documents to inform appraisal decisions.

The group met on 2<sup>nd</sup> March 2016 to discuss the scope of the SA and views expressed at this meeting have been reflected within this report. The group will continue to meet and input into the SA at key points in the process.

This scoping consultation runs from the 11<sup>th</sup> April 2016 untils13<sup>th</sup> May 2016.

### 2 Introduction to the Marine Plans

### 2.1 Policy and Data Context

The MMO was established in 2010 through provisions made in the Marine and Coastal Access Act (MCAA) 2009 ('The Act')

(http://www.legislation.gov.uk/ukpga/2009/23/contents). The Act also set out the mechanism for marine planning with the MMO given the delegated responsibility to prepare marine plans for English waters. Marine plans seek to provide greater coherence of policy and a forward-looking, proactive and spatial approach to the management of the marine area, its resources and the activities and interactions that take place within it.

The UK Marine Policy Statement 2011 provides the framework for preparing marine plans and taking decisions affecting the marine environment. The UK Marine Policy Statement facilitates and supports the formulation of national and regional marine plans, ensuring that marine resources are used in a sustainable way in line with the high level marine objectives.

The Act divides UK waters into marine planning areas with an inshore area (0-12 nautical miles (nm)) and offshore area (12– c.200nm or Exclusive Economic Zone limit/median line). Based on stakeholder feedback, and to provide a consistent and simple approach to marine plans, for the majority of the areas, the MMO is preparing adjacent inshore and offshore marine plans through a single integrated process (apart from the South East, where an inshore plan only will be prepared as there is no South East offshore marine plan area). Therefore, a single 'plan document' is planned for the majority of the marine plan areas with distinctions made as to which policies are relevant to either the inshore or offshore marine plan areas, or to both, in each geographical region. The 11 English marine plan areas are identified on Figure 1.1 of this report (please see Annex 1 – Maps) – available at http://www.connect.marinemanagement.org.uk/consultations/sascoping/

The first marine plans to be adopted were the East (inshore and offshore) plans in April 2014. The South (inshore and offshore) marine plans are currently being prepared for public consultation. The remaining marine plan areas<sup>5</sup> are being progressed concurrently and these marine plans will set out how the UK Marine Policy Statement will be implemented in each marine plan area. All such regional marine plans must conform to the UK Marine Policy Statement unless relevant considerations indicate otherwise, taking into account the social, economic and environmental factors that affect the marine plan areas and the communities that are dependent on, or have an interest in, the area.

The UK Government vision for the marine environment (as expressed in the Marine Policy Statement 2011), is for, "clean, healthy, safe, productive and biologically diverse oceans and seas". The UK high level marine objectives, published in April 2009 (<a href="https://www.gov.uk/government/publications/our-seas-a-shared-resource-high-">https://www.gov.uk/government/publications/our-seas-a-shared-resource-high-</a>

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<sup>&</sup>lt;sup>5</sup> North East Inshore and Offshore, North West Inshore and Offshore, South West Inshore and Offshore and South East Inshore

<u>level-marine-objectives</u>), set the broad outcomes for the UK's marine area in achieving this vision, and reflect the principles for sustainable development. The high level marine objectives are:

- Achieving a sustainable marine economy;
- Ensuring a strong, healthy and just society;
- Living within environmental limits;
- Promoting good governance; and
- · Using sound science responsibly.

The aim of marine planning is to ensure a sustainable future for our coastal and offshore waters through managing and balancing the many activities, resources and assets affecting the marine space and in so doing, deliver these high-level marine objectives.

The marine planning system does not exist in isolation and it should be noted that the terrestrial (land-use) planning system has been in existence for over 60 years. Both marine and land-use planning systems have a presumption in favour of sustainable development and are based upon a set of high level objectives and a framework of national policies, which inform planning at the area specific level. Whilst there are similarities there are also key differences. However, integration of both systems is built in to the MCAA ensuring that the MMO takes all reasonable steps to ensure that marine plans are compatible with the development plans in the land-use planning system. As well as conforming with the UK Marine Policy Statement, the marine plans must also be in accordance with other UK national policy including the Planning Act 2008

(<a href="http://www.legislation.gov.uk/ukpga/2008/29/contents">http://www.legislation.gov.uk/ukpga/2008/29/contents</a>), National Planning Policy Framework (NPPF) (<a href="https://www.gov.uk/government/publications/national-planning-policy-framework--2">https://www.gov.uk/government/publications/national-planning-policy-framework--2</a>), National Policy Statements (NPSs) such as those for ports and energy and the procedures for consents of Nationally Significant Infrastructure Projects under the Planning Act 2008 (as amended)

(http://infrastructure.planninginspectorate.gov.uk/legislation-and-advice/national-policy-statements/). Relevant provisions in these marine plans and policies will therefore form policy drivers for the regional marine plans.

## 2.2 Scope of Marine Plans – approach and principles

The marine planning approach and principles ensure that marine plans have regard to other relevant programmes and plans and:

- Are based on a sound evidence base as far as possible;
- Are participative and informed by data provided by relevant interested parties;
- Take an ecosystem approach;
- Are streamlined and efficient making effective use of existing data and management arrangements where appropriate;
- Are in line with the principles of Integrated Coastal Zone Management; and
- Are forward looking whilst ensuring appropriate flexibility.

The marine plans are enabling and empowering tools that provide greater certainty about where activities could best take place and assist users in determining preferred locations.

### Specifically the marine plans:

- Enable efficient use of space, highlighting the need and opportunities for coexistence in areas with a high concentration of activities;
- Clarify where co-existence is not appropriate, and where activities should be avoided:
- Enable dialogue and negotiation where co-existence is an option, so impacts
  can be mitigated or minimised. In some cases where impacts cannot be
  minimised but where proposals will bring other benefits, the marine plans
  enable these to be taken into account in the decision making process;
- Give greater certainty around existing activity through the marine planning evidence base (http://mis.marinemanagement.org.uk/marine-planningevidence-base);
- Provide appropriate safeguarding for areas of future resource potential where evidence allows;
- Allow flexibility where evidence is limited so developers and decision makers are able to apply their knowledge and experience; and
- Support the development of proposals by:
  - o setting out requirements that apply irrespective of specific location, including 'how' an activity or development is undertaken
  - identifying factors within marine plan objectives which will improve chances of success within the decision making process, for example encouraging proposals to sustain local jobs, draw on the local skills base and promote diversification
  - providing context for when 'imperative reasons of overriding public interest' are being considered,<sup>[1]</sup> such as the need for nationally significant infrastructure
  - increasing awareness of which other relevant legislation, policy, regulations, existing measures and available guidance should or must be taken into consideration
  - reiterating the importance of other relevant project-level regulation and assessment within the decision making process

The marine plans enable sustainable economic growth, whilst respecting local communities and protecting the marine environment. Policies will be presented within an economic, social and environmental framework, helping to deliver the high level marine objectives set out in the Marine Policy Statement and sustainable development of the marine area.

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<sup>[1]</sup> Further information on imperative reasons of overriding public interest can be found at <a href="http://www.defra.gov.uk/consult/2012/08/07/habitats-directive-iropi/">http://www.defra.gov.uk/consult/2012/08/07/habitats-directive-iropi/</a>

### 2.3 Remit of the Marine Plans

The marine plans interpret the UK Marine Policy Statement in a way that addresses the issues identified through evidence gathering and meets the aspirations of stakeholders.

Table 2.1 below highlights the remit of the marine plans and is organised into topics in order to provide specific examples.

In terms of general approach, marine plans will seek to support and complement existing plans wherever appropriate, in order to avoid duplication. Signposting was used successfully in the East and draft South marine plans to point towards relevant information and policies held in other existing plans. This ensures that marine plans can focus on issues where they make a real difference.

To enable integrated coastal planning, specific attention is being given by the MMO to appraising the policies in Local Plans and other relevant plans to inform the production of the marine plans. However, the marine plans are not likely to be able to allocate space in the same manner, nor be as prescriptive. This is not surprising, given their greater spatial coverage (and multi-space use of the seas), covering areas more akin to regional planning, although the marine plans will contain an element of spatial specificity.

Table 2.1: The remit of the marine plans

| SA Topic   | Remit of the marine plans  |
|--|--|
| Physical and Chemical A                            | spects   |
| Cultural heritage                                  | The marine plans will be used when considering the potential impacts of proposals, many of which will be assessed with regards to their impact on heritage assets. It is important in the drafting of the marine plans, and at the project level, to account for the degree of change in heritage assets that certain developments may represent. Given the future trajectory for certain industries, the potential for future cumulative impacts on heritage assets could also be a consideration of the plans. |
| Geology,<br>geomorphology and<br>coastal processes | The marine plans will be used by the MMO and other decision makers when considering the potential impacts of proposals, many of which will be assessed with regards to their impact on sediments, coastal processes and underlying geology.  |
| Seascape and landscape                             | The marine plans will be used by the MMO and other decision makers when considering the potential impacts of proposals, many of which will be assessed with regards to their impact on seascape and landscape.   |

| SA Topic                           | Remit of the marine plans   |
|------------------------------------|---|
| Water environment                  | The marine plans will be used by the MMO and other decision makers when considering the potential impacts of proposals, many of which will be assessed with regards to their impact on water quality and circulation. It will be important when drafting the plans, and at the project level, to account for the degree of risk to the water environment that certain proposals may represent.  |
| Air quality and climate            | The marine plans will be used by the MMO and other decision makers when considering the potential impacts of proposals, many of which will be assessed with regards to their impact on air and climate. It will be important in the drafting of the marine plans to account for the degree of air and climate change impacts and benefits that certain proposals may represent. Given the future trajectory for certain industries including renewable energy there is significant potential to contribute to climate change mitigation targets, for example.  The marine plans will also be used by the MMO and other decision makers to consider potential impacts on coastal flooding and climate change adaptation benefits that proposals can put in place. The marine plans will also be used to consider how all marine users will be able to adapt to climate change. |
| Social and Economic Asp            | pects   |
| Communities, health and well being | The marine plans will be used by the MMO and other decision makers when considering the potential impacts of proposals, some of which may be assessed with regards to their impact on communities and health. It will be important in the drafting of the marine plans, and at the project level, to account for a degree of change in communities and health. Given the future trajectory for certain industries, the potential future cumulative impacts on communities and health could also be a consideration of the marine plans.   |

| SA Topic                  | Remit of the marine plans  |
|---------------------------|--|
| Economy                   | The marine plans will be used by the MMO and other decision makers when considering the potential impacts of proposals, many of which will be assessed with regards to their impact on the economy. It will be important in the drafting of the marine plans, and at the project level, to account for the degree of risk to the economy that certain developments may represent. Where appropriate, and data permitting, such an assessment should include, projected risks associated with adaptation and mitigation measures or consequence related to developments. Given the future trajectory for certain industries, the potential future cumulative impacts could also be a consideration of the marine plans. |
| <b>Ecological Aspects</b> |  |
| Marine ecology            | The activities covered in the marine plans may have both direct and indirect effects upon marine ecology. For example, direct effects may include loss or disturbance of habitats through activities such as dredging and disposal. Indirectly, noise or pollution generated from marine developments both inshore and offshore may impact upon marine ecology; for example, noise and vibration from construction may disturb bird and marine mammal populations. The marine plans will be drafted in accordance with the provisions of the UK Marine Policy Statement with regard to the protection of marine ecology and they will be used when considering the potential impacts of developments.                  |

### 3 Introduction to the SA

### 3.1 Background and purpose of the SA

SA considers the economic, social and environmental impacts of an emerging plan (the three dimensions of sustainable development). The aim in undertaking SA is to identify a plan's likely significant effects and take steps to avoid and/or mitigate the negative effects as well as identify opportunities to maximise a plan's contribution to sustainability.

SA differs from SEA in that it gives greater consideration to socio-economic issues (although the SEA Directive refers to a possible need to consider issues such as 'population' and 'human health' and to contribute to sustainable development) alongside the environment.

### The purpose of SEA is:

"...to provide for a high level of protection of the environment and to contribute to the integration of environmental considerations into the preparation and adoption of plans and programmes with a view to contributing to sustainable development". (Article 1 of the SEA Directive).

The SA ensures that sustainability issues are considered in a structured, clear and transparent manner through its focus on testing and comparing the merits of different plan alternatives as well as consultation with key stakeholders. Note that there is no formal guidance for SA of marine plans – the closest to this would be the National Planning Practice Guidance (NPPG) for terrestrial plans<sup>6</sup>. However, please note that terrestrial plans have greater level of detail in them for a smaller area so the guidance reflects that.

### 3.2 SA Process

The stages in the SA process have been developed to take into account the five procedural stages of SEA outlined in the Practical Guide<sup>7</sup> and NPPG:

- Stage A: (Scoping) Setting the context, establishing the baseline (with the
  acknowledgement that this process needs to continue as the SA and
  marine plan processes continue) and deciding on the scope of the
  appraisal (what this document does);
- Stage B: Developing and refining marine plan alternatives and appraising the effects:
- Stage C: Preparing the SA Report;

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<sup>&</sup>lt;sup>6</sup> DCLG (2014) National Planning Practice Guidance [online] available at: http://planningguidance.communities.gov.uk/blog/guidance/strategic-environmental-assessment-and-sustainability-appraisal/

<sup>&</sup>lt;sup>7</sup> ODPM et al. (2005) A Practical Guide to the Strategic Environmental Assessment Directive. https://www.gov.uk/government/uploads/system/uploads/attachment\_data/file/7657/practicalguidesea. pdf

- Stage D: Consulting on the SA Report and the draft marine plans and appraising any significant changes; and
- Stage E: Monitoring the significant effects of implementing the marine plans.

In practice, the SA is an iterative process which will be undertaken in parallel with the development of marine plans and feed into the marine plans' development at appropriate intervals – see Figure 3-1 below. SA is particularly important at the options stage when its findings help inform the choice between competing reasonable alternatives.

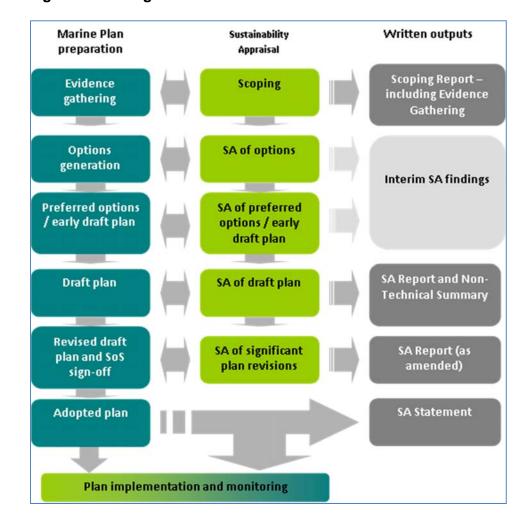


Figure 3-1 Stages in the SA Process

The SA is currently in Stage A, Scoping. The purpose of Stage A is to decide on the scope and the level of detail of the SA. These details should then be subject to consultation in line with the requirements of the SEA Regulations<sup>8</sup>.

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<sup>&</sup>lt;sup>8</sup> The Environmental Assessment of Plans and Programmes Regulations 2004 SI No.1633

## 4 Methodology of the SA scoping

### 4.1 Overall Approach

The key aspects of the approach to the SA scoping of the remaining English marine plans (North East Inshore and Offshore, North West Inshore and Offshore, South West Inshore and Offshore and South East Inshore Marine Plans) include:

- The production of a combined SA scoping report for all seven marine plan areas (this report):
- The inclusion of a baseline database in excel spreadsheet format which is publicly available on the MMO website;
- The production of report cards for each SA sub topic to present the key information in a more accessible format:
- The use of the information in the baseline database and report cards to sets the scope for the appraisal; and
- The production of mapped data in a SA scoping report annex (Annex 1).

This approach is focused on defining and guiding the reader to the significant issues, whilst providing clear signposting to where further information is available.

### 4.2 Baseline database

### 4.2.1 The purpose of the database

The baseline database sets out a baseline characterisation of the marine plan areas in a way that is both clear and user friendly. This is a conscious attempt to move away from very long text based SA scoping reports, which is a particular risk with this project as this SA scoping report covers seven marine plans.

The information in the baseline database addresses a number of the requirements of the SEA regulations, as shown in Table 4.1. Table 4.1: Fulfilling the requirements of the SEA regulations

| What the regulations say <sup>9</sup>   | How this is addressed   |
|---|---|
| 1. (the plan's) relationship with other relevant plans and programmes.  | Policies, targets and objectives from relevant plans, programmes and legislation that are significant and need to be complied with have been included in the baseline database <sup>10</sup> .  |
| 5. The environmental protection objectives, established at international, Community or Member State level, which are relevant to the plan or programme and the way those objectives and any environmental considerations have been taken into account during its preparation. |   |
| <ul> <li>2. The relevant aspects of the current state of the environment and the likely evolution thereof without implementation of the plan or programme</li> <li>3. The environmental characteristics of areas likely to be significantly affected</li> </ul>               | The baseline database includes information on aspects of the environment broken down into relevant topics. This involves setting out the key characteristics of areas and identifying the receptors which could be affected. The database divides information into baseline (something which is a statement of fact) and issues (something which is subject to interpretation). |
|   | The report cards outline the likely evolution of the environment over the duration of the marine plans (also known as the future baseline).   |
|   | As highlighted in the methodology, this data collection process will continue through the SA process and a more detailed baseline data collection may be needed once the appraisal of the plan and its alternatives is underway.  |

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<sup>&</sup>lt;sup>9</sup> Please see Schedule 2 of the SEA regulations: *Information for Environmental Reports*.
<sup>10</sup> It should be noted that the SA scoping make reference to MMO research paper number 1109 and 1110 carried out by Atkins. This report is entitled "Sub-National Policy Review: North West/ South West & North East/ South East (February 2016)". This research report sets out detailed sub-national policy reviews and include plans which cover the management and use of sea/ coastal areas and resources including: plans produced by coastal local authorities; relevant port plans; National Park plans; AONB plans; Heritage Coast plans; Local Enterprise Partnership strategic economic plans; River Basin Management Plans; Shoreline Management Plans; and Estuary Management Plans.

| What the regulations say <sup>9</sup>   | How this is addressed  |
|---|--|
| 4. Any existing environmental problems which are relevant to the plan or programme including, in particular, those relating to any areas of a particular environmental importance, such as areas designated pursuant to Council Directive 79/409/EEC on the conservation of wild birds and the Habitats Directive | The information collected in the database includes any issues, problems or opportunities that have been identified during the data collection exercise.  This includes information on birds and Natura 2000 sites (incorporating sites designated under both the Birds and Habitats Directives). |

### **4.2.2 Topics covered within the database**

A set of themes were identified (please see the first column of Table 4.2 for a list of these themes), consistent with those used to scope the South Marine Plan, in order to structure the gathering of evidence and to aid the design of the baseline database. It was anticipated that the structure of the SA framework used to appraise the South Marine Plan would be appropriate to the remaining marine plans with edits made according to the key issues identified for each plan area as part of the scoping process.

An initial review of the themes undertaken by the SA team ensured that the draft SA framework was comprehensive, streamlined, adhered to relevant regulations and was able to gain buy in from stakeholders. The changes made as a result of this review include:

- A review of the formal scoping responses received on the South Marine Plan SA scoping report indicated that stakeholders were keen that climate change issues were dealt with under a separate topic;
- The need to ensure that the framework is as streamlined as possible (especially considering the wide plan area coverage of the document) to ensure transparency and a focus on the significant issues; and does not appear to favour one topic over others;
- The need to ensure that the topics under the SEA regulations are addressed (consideration is required of all topics even if it is decided after data collection to scope issues out); and
- The need to address equality issues and address the requirements of the Equality Act 2010 (see Section 7.2 of this scoping report for more details).

This work has resulted in a draft SA framework that has been used to guide the data collection and this is shown in Table 4.2.

It is also important to consider the links to both the Marine Strategy Framework Directive (MSFD) (<a href="http://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX:32008L0056">http://eur-lex.europa.eu/legal-content/EN/ALL/?uri=CELEX:32000L0060</a>. The MSFD aims to achieve Good Environmental Status (GES) for all EU waters (please note

that the MSFD does not apply in transitional waters – ie estuaries) by 2020, where GES is defined by 11 Descriptors. All of the descriptors are relevant to the topics considered in this SA framework. In addition to achieving GES, the MSFD also requires the establishment of Marine Protected Areas (MPAs), which contribute to the creation of an ecologically coherent network of MPAs and help to meet the aims of international conventions to which the EU is party. The MSFD requires Member States to work together to achieve GES for the Regional Seas defined by the Directive. The marine plan areas considered by this document sit within two of the sub-regions of the North East Atlantic Marine Region (the Greater North Sea and the Celtic Seas sub-regions).

The Water Framework Directive (WFD) aims to achieve Good Status for inland surface waters (rivers and lakes), transitional waters (estuaries), coastal waters and groundwater across the EU by 2015, where 'good' is defined in terms of chemical and biological water quality elements. Coastal waters under the WFD overlap with the geographic area covered by the MSFD. In English marine plan areas, the WFD area extends out to 1 nautical mile (nm). Where overlaps occur the MSFD is only intended to apply to those aspects of GES which are not already covered by WFD (eg noise, litter, aspects of biodiversity).

Relevant aspects of the MSFD and the WFD are addressed in the biodiversity and water report cards.

**Table 4.2: Draft SA framework** 

| Overarching SA topic                      | Proposed SA sub topic   |  |  |  |  |
|---|---|--|--|--|--|
| Physical and Chemical Aspects             |   |  |  |  |  |
| Cultural heritage                         | Heritage Assets within marine plan areas <sup>11</sup> Heritage Assets adjacent to marine plan areas                                  |  |  |  |  |
| Geology, substrates and coastal processes | Seabed substrates and bathymetry Coastal features and processes   |  |  |  |  |
| Seascape and landscape                    | Effects on seascape and landscape   |  |  |  |  |
| Water                                     | Tides and currents Water temperature and salinity Pollution and water quality (including eutrophication) Marine litter                |  |  |  |  |
| Air quality                               | Air pollutants  |  |  |  |  |
| Climate                                   | Greenhouse gas emissions Climate change resilience and adaptation (including coastal flooding)  |  |  |  |  |
| Social and Economic Aspects               |   |  |  |  |  |
| Communities, health and well being        | Health and wider determinants of health Effects on communities (including employment and skills) Effects on protected equality groups |  |  |  |  |

<sup>-</sup>

<sup>&</sup>lt;sup>11</sup> The 'adjacent to' category will capture assets that might be affected by the marine plans because of the setting of monuments on the coast, the consequences of coastal erosion, plan policies relating to tourism etc., but it will avoid repetition in respect of assets that are in the intertidal zone or close inshore, to which 'coastal' might be assumed to refer.

| Overarching SA topic                    | Proposed SA sub topic                                |  |  |  |  |  |
|---|--|--|--|--|--|--|
| Economy                                 | Ports and shipping (including dredging and disposal) |  |  |  |  |  |
|   | Fisheries and aquaculture                            |  |  |  |  |  |
|   | Leisure / recreation                                 |  |  |  |  |  |
|   | Tourism  |  |  |  |  |  |
|   | Marine manufacturing                                 |  |  |  |  |  |
|   | Defence  |  |  |  |  |  |
|   | Aggregate Extraction                                 |  |  |  |  |  |
|   | Energy Generation and infrastructure development     |  |  |  |  |  |
|   | Renewables   |  |  |  |  |  |
|   | Carbon capture and storage                           |  |  |  |  |  |
|   | Nuclear  |  |  |  |  |  |
|   | Fossil Fuels   |  |  |  |  |  |
|   | Seabed Assets (eg cables, outfalls and pipelines)    |  |  |  |  |  |
| Ecological Aspects                      |  |  |  |  |  |  |
| Biodiversity, Habitats, Flora and Fauna | Protected Sites and Species                          |  |  |  |  |  |
|   | Benthic and Inter-Tidal Ecology                      |  |  |  |  |  |
|   | Fish and Shellfish (inc. cephalopods) <sup>12</sup>  |  |  |  |  |  |
|   | Marine Mega Fauna (inc. marine mammals and turtles)  |  |  |  |  |  |
|   | Plankton   |  |  |  |  |  |
|   | Ornithology  |  |  |  |  |  |
|   | Invasive species                                     |  |  |  |  |  |

<sup>&</sup>lt;sup>12</sup> Please note that basking sharks are addressed under the marine mega fauna sub topic and all other shark species are addressed under the fish and shellfish sub topic

### 4.2.3 The approach to data collection

Considerable care has been taken to ensure that this report is streamlined and provides signposting to the significant amount of data that has been collected by the MMO and other organisations, with the database and report cards being a key component of the SA scoping stage along with this report.

To help achieve this aim, a phased approach to data collection has been taken. This phased approach is set out below:

- Key technical specialists were provided with a number of issues documents compiled by MMO specialists for each plan area under broad subjects. These were added to the baseline database and the appropriate work was undertaken to ensure that these issues were fully evidenced;
- For each SA sub-topic a review was undertaken on the kinds of data that
  were included in the South Marine Plan and East Marine Plans SA scoping
  reports. If these data sources were relevant, the data was added to the
  baseline database;
- The MMO's Master Data Register was reviewed and appropriate data added to the database;
- Evidence reports commissioned by the MMO were reviewed and appropriate data added to the baseline database.

A guiding principle of the data collection process was to focus on data that was needed to define the scope for the SA. The databases are live documents – they are fit for purpose at the scoping stage and are likely to be added to as the SA process continues.

Once the steps above were complete a review was then undertaken of the adequacy of the data collected (both in terms of its coverage and whether the level of detail presented is appropriate). If gaps were identified then further data collection was undertaken to try and fill those gaps where possible. A number of data gaps remain and are identified as a separate category within the baseline database. Particularly significant data gaps are highlighted on the report cards.

### 4.2.4 The layout of the database

The database addresses the nine SA topic areas set out in Table 4.2. The database comprises of two linked sheets, the first of which identifies a range of information under the four following categories:

- Policy / Target: The most significant international (including EU), national and sub-national policy and regulatory requirements are identified as well as key guidance documents. Key targets set out within these documents are also identified. Expert judgement was used to determine the most significant pieces of legislation / policy;
- Baseline: Information which relates to the current status of the environment is presented for each SA topic area; and
- Issue: Salient issues for each SA topic area are identified in the database as identified in the literature reviewed. Again, expert judgement was used to

judge which the most significant issues are. For more information on the definition of the word issue see section 1.2 of this report; and

• Data gaps:

Additional information provided includes what SA sub-topic the text relates to (eg fish, benthic, plankton etc. under the biodiversity heading), what plan area the text relates to and commentary is provided in the 'Comments' cell if required.

The source information that has contributed to the policy/target, baseline and issues is referenced on the second sheet in the spreadsheets. A 'Data Identifier' is used to link the sheets through a one-to-many relationship ie one data source may relate to several issues or statements of the baseline case. Sources are clearly identified and referenced.

All of the columns in the database can be filtered so, for example, just the issues relating to the South West Inshore Marine Plan area can be identified if required. The database is therefore an important filtering tool which underpins the identification of issues and the baseline case, and provides details which would otherwise result in an overly lengthy and complex SA scoping report which covers seven marine plan areas and nine SA topics.

The two screenshots below show the first and second sheets of the database respectively.

Figures 4- 2 and 4.2 Database policy and data screen shots



|  |          |           |  | Data  | Source and Quality Assessment  |            |   |  | ENVIRON MPC   |   |
|--|----------|-----------|--|---|--|------------|---|--|---|---|
| Data Idontifior  | Arrorr   | ₩M0 Reqir | Format                                   | Saurce  | Abstract   | Date Capt  | Overall Quality Azzazzment Rezult  Classification | Link to Data   | Link to Completed CA  |   |
| _Bathinq Water Directive 2006/7/EC2015 classifications_Navember 2015   | АВ       | No        | Statutory Report                         | bathing-water-classifications.odf   | Thir document details the classification for each designated bathing beaches in 2015.  | 02/02/2016 |   | P:\Cantractz\UK225xx\UK15-22570_MMOSA\WaterEnvironment\WaterEnvironment Data     |   |   |
|  |          |           |  | http://www.anv.uk/anvernment/<br>unlmade/evetem/unlmade/attachm<br>ent_data/file/312327/zzr   | Thir document provides a high level summary of the important   |            |   | P:\Cantractr\UK225xx\UK15-22570_HMO SA\Water Environment\Water Environment       |   |   |
| Stratogic Scoping Roport for Marino Planning in England_August 2013  | AB       | No        | Statutory Report                         | auaurt2012.edf<br>http://www.moruk.ora/downloadr/<br>pollution/beachwatch/latert2015/   | izzuez in each of the plan areaz.  | 02/02/2016 |   | Data  P:\Cantractr\UK225xx\UK15-22570_MMO SA\Water Environment\Water Environment |   |   |
| Conrervation Society_Great British Beach Clean 2014_Report   | AB       | No        | Non Statutory Report                     | MCS GBBC 2014 Resert.edf  | Statistics on the results of the national beach clean for 2014.  PCB concentrations have been shown to have stabilized in killer   | 02/02/2016 |   | Data   |   |   |
| et al_Scientific Reports POB pollution contines to impact populations of orcas and other dolphin<br>pean waters_Nature 2016  | AB       | No        | AcadomicPapor                            | rop18573  | whaler and battlengred dalphin papulations around the UK, at far in excess of the concentration likely to coure toxic effects.   | 02/02/2016 |   | P:+Cantractr+UK225xx+UK15-22570_MMO SA\Water Environment\Water Environment Data  |   |   |
| vornmont. UK Initial Azzazzmont and Gand Environmontal Statuz. 2012  | AR.      | N_        | Statutory Report                         | https://www.apo.uk/apoernment/<br>uelnade/rystem/uelnade/attachm<br>ent_data/file/9632/eb/3860-<br>marine-ytrateay-earth<br>2012/12/0.edf                                 | Thir documents out the characteristics for Good Environmental Statur (GES) and the more detailed targets and indicators for GES for the UK marine environment in order to fulfil the obligations of the MSFD.  | 02/02/2016 |   | P:\Cantracta\UK225xx\UK15-22570_MMO SA\Water Environment\Water Environment Data  |   |   |
| AND THE STATE OF T |          | 116       | 2.co.cory respect                        | http://webarshive.nationalarshiv<br>er.apv.uk/20141203181034/http://<br>shartinaprogress.defra.apv.uk/re  | Obsting Pragraz Zillustrator the changezince 2005 and the advancer we have made towards surphered virian of 'clean, healthy, rafe, productive and biologically vivorre occans and reaz'. It reports data for the   |            |   | P-VCantract/VUK225xx4UK15-22570_MMO SAWVator EnvironmentWator Environment        |   |   |
| AS_Charting Pragrozz 2 An Azzozzmont of the State of UK Seaz_2010  | AB       | No.       | Statutory Report<br>Other Please Specify | rereen.edf  | oight rogionalseas.  | 02/02/2016 |   | Data   |   |   |
| oway Landan_2016   | AB       | No.       | uebrite                                  |   | Local planning policies  | 04/02/2016 |   |  |   |   |
|  |          |           |  | http://www.arpar.org/site/assets/<br>files/1290/aspar_convention_e_u  |  |            |   | P:\Cuntracts\UK225xx\UK15-22570_MMO SA\Water Environment\Water Environment       |   | 1 |
| PAR Cammizzian_The OSPAR Canoentian_1992<br>tianal Maritime Organizatian_Internatianal Canoentian far the Preventian of Pallutian fram Shi   | AB<br>pr | No        | Statutory Report                         | pdated_text_in_2007_na_revr.pd<br>http://www.ima.arq/en/Abaut/Ca<br>nventin/ListOfCanventians/Paq<br>er/International-Canventian-for-<br>the-Preventian-of-Pallutian-from |  | 04/02/2016 |   | Data   |   |   |
| OL)_1973   | AB       | No        | Statutury Report                         | Shipr (MARPOL), arpx<br>http://www.imp.ora/en/Akout/Co<br>nventions/ListOfConventions/Pag<br>es/International-Conventionson:  | MARPOL convention  an international maritime convention establishing measures for  | 04/02/2016 |   |  |   |   |
| tional Maritime Organization_International Convention on Oil Preparednezz, Response and Co-<br>ion (OPRC)_1990   | AB       | No        | Statutory Report                         |   | dealing with marine all callution incidents nationally and in ca-  | 04/02/2016 |   | P:\Cantractr\UK225xx\UK15-22570_MMO SA\WaterEnvironment\WaterEnvironment Data    |   | 1 |
| tional Maritime Organization_International Convention on the Prevention of Marine Pollution b  | ,        |           |  | or/Convention-on-the-Prevention<br>of-Marine-Pollution-by-Dumping-  | The abjective is to promote the effective control of all sources of marine pollution and to take all practicable steps to prevent pollution of the sea by dumping of water and other matter.   |            |   | P:\Cantroctr\UK225xx\UK15-22570_MMO SA\Water Environmont\Water Environment       | Unable ta lacate<br>dacument. Summary page  |   |
| og af Warter and Other Matter_1972   | AR       | Na        | Statutary Repart                         | http://www.mpgr.org/site/assoss/  | Oursealty, AT States are Parisis to this Occovariate,<br>Under its Marth-East Atlantic Environment Strategy (MEGE<br>Strategy) OSPARI it taking for some durants of Strategy (MEGE<br>Strategy) AT Strategy (MEGE Strategy<br>Part I) and the owning of five them attentive along (MEGE Strategy<br>Part II) as defease the main threats that it has identified<br>concerning for your suitinity to emphasize that<br>concerning for your suitinity to emphasize the<br>momentum for your suitinity to emphasize the<br>suitinity and suitinity the<br>magnetized of the suitinity to emphasize the<br>suitinity and suitinity to the<br>suitinity to<br>suitinity the<br>suitinity to<br>suitinity to<br>suitinity to<br>suitinity to<br>suitinity the<br>suitinity to<br>suitinity the<br>suitinity to<br>suitinity the<br>suitinity to<br>suitinity the<br>suitinity the | 04/20/2016 |   | Date  PhOantrook/WK225wiNUK15-22570_MM0 SAVWate EnvironmentWater Environment     | from IMO website. This document also includes the extraphicationstrategy, haxardows substances strategy, affishers oil and garstrategy and radioactives webstances. |   |
| PAR Commission_OSPAR_The North East Atlantic Environment Strategy_2010<br>  Commission_OSPAR Decision 2000/3 on the Use of Organic-Phase Drilling Fluids (OPF) and the   | AB       | No        | Statutory Report                         | filoz/1200/stratogy.pdf<br>http://www.aspar.org/documents?  | OSPAR convention decirion regarding the we and directorge of   | 04/02/2016 |   | Data P:\Cantractr\UK225xx\UK15-22570_MMO SA\Water Environment\Water Environment  | stratogy.   | ٠ |
| rgo of OPF-Contaminated Cuttingr_2000  | AB       | No        | Statutory Roport                         | 4-32321   | uil bared drilling fluidrin uil and gar production<br>OSPAR convention decirion regarding the requirement for  |            |   | Data   |   | L |
| i Cammirzian_OSPAR Decirian 2000/2 an a Harmanired Mandatary Cantral System far the Use a<br>ian af the Dircharge af Offshare Chemicals (as amended by OSPAR Decirian 2005/1)_2000   | AB       | No        | Statutory Roport                         | http://www.arpar.org/documents?<br>4-32742  | chemicalrured in affrhare ail and qur drilling approximate be<br>cantralled and regulated by a harmanized mandatary cantral<br>ryxtem, uith the aim of reducing the ure and direharge of<br>chemicalr  | 04/02/2016 |   | P:\Cantractr\UK225xx\UK15-22570_MMO SA\Water Environment\Water Environment Data  |   |   |
| i Cammizzian, OSFAR Recammendatian 2005/2 an Environmental Gaalz far the Dircharqe by the<br>reIndurtry of Chemicalz that Are, or Contain Added Subztancer, Lizted in the OSPAR 2004 Lizt of<br>calz far Priority Action, 2005   | AB       | No        | Statutory Report                         | http://www.arpar.arq/dacumentr?<br>4-32772  | OSPAR convention recommendation regarding the<br>requirement for a list of 'chemicals listed as a chemicals for<br>priority action' wed in offshore oil and gas drilling operations  | 04/02/2016 |   | P:\Cantractr\UK225xx\UK15-22570_MMO SA\Water Environment\Water Environment Data  |   | l |
| i<br>Commizzian_OSPAR Recommendation 2000/1 on Bert Environment of Practice (BEP) for the<br>ion of Inputs of Agricultural Particidar to the Environment through the Ure of Integrated Grop  |          |           |  | http://www.arpar.org/documontr?   | OSPAR Convention recommendation on the Bert<br>Environmental Practice (BEP) for the Reduction of Inputs of<br>Agricultural Perticidar to the Environment through the Use of  |            |   | Pt/Cantrocts/UK225xx/UK15-22570_MMO SAWator EnvironmentWater Environment         |   |   |

### 4.3 Report-cards

The report cards present a summary of the baseline and issues within each plan area for each SA sub topic. They are broken down into the following sections:

- Baseline / issues for each plan area;
- Summary of the legislative / policy context (note that the report cards have focused on the international and national legislation and policy. Sub national policy is included in the database but is generally too detailed to include on the report cards);
- Key cross cutting baseline / issues across all plan areas;
- The likely evolution of the environment over the plan duration (sometimes referred to as the future baseline);
- Potential interactions with other topics (this is necessarily a summary as this list cannot be exhaustive);
- Potential transboundary issues; and
- Key data gaps.

The report cards use the information within the databases and present this in an accessible way. The purpose of the report cards is to demonstrate what the significant issues are within each plan area. These have then been used to scope the assessment for each SA sub topic for each plan area. The decision regarding what information from the database to present on the report cards has been made using the expert judgement of the SA team and the views of the SA Advisory Group. As well as using information contained in the database some of the boxes on the report cards present an interpretation of this information, again using the expert judgement of the SA team. The parts of the report card that are subject to interpretation are the following: the likely evolution of the environment over the plan duration and the potential interactions with other topics. References to the databases have been added to the report cards in a number of places to ensure a clear audit trail. For example, (Water\_101) indicates Issue 101 in the Water database.

The following report cards have been provided (see Section 4.3.1 to 4.3.9). Because of the subject matter or because of the amount of information collected some of the SA sub topics have been combined. Please note that the report cards set out what the important issues are for each marine plan area for the SA scoping.

### 4.3.1 Cultural heritage

- Heritage Assets within marine plan areas
- Heritage Assets adjacent to marine plan areas

### 4.3.2 Geology, substrates and coastal processes

• Seabed substrates and bathymetry and Coastal features and processes

### 4.3.3 Seascape and landscape

Effects on seascape and landscape

#### 4.3.4 Water

- Tides and currents
- Temperature and salinity; Marine litter
- Pollution and water quality (including eutrophication)

### 4.3.5 Air quality

Air pollutants

#### 4.3.6 Climate

 Greenhouse gas emissions and Climate change resilience and adaptation (including coastal flooding)

### 4.3.7 Communities, health and well-being

- Health and wider determinants of health and Effects on protected equality groups
- Effects on communities (including employment and skills)

### 4.3.8 Economy

- Ports and shipping (including dredging and disposal)
- Fisheries and aquaculture
- Leisure / recreation and Tourism
- Marine manufacturing and Defence
- Aggregate Extraction and Seabed Assets (eg cables, outfalls and pipelines)
- Energy Generation and infrastructure development

### 4.3.9 Biodiversity, habitats, flora and fauna

- Protected Sites and Species
- Benthic and Inter-Tidal Ecology
- Fish and Shellfish (inc. cephalopods)
- Marine Mega Fauna (inc. marine mammals and turtles)
- Plankton
- Ornithology
- Invasive species

### 4.4 Mapped Data

Annex 1 includes a selection of mapped data that helps to set the context for the SA, helps readers to interpret the baseline database and will also be used to inform the appraisal of the marine plans. The maps that have been produced are a sample of the range of maps that are available from the MMO and other sources. Please note that this Annex is not exhaustive. The MMO hold a large amount of mapped data and this is outlined in the Master Data Register

(https://www.gov.uk/government/publications/master-data-register) and within the Marine Planning Evidence Base (http://mis.marinemanagement.org.uk/marine-planning-evidence-base). Because of the availability of the Marine Planning Evidence Base (which is kept updated and is publicly available) it has not been necessary to reproduce comprehensive baseline maps for the SA scoping report. The sections below set out which maps have been reproduced for each SA topic

(figure references refer to Annex 1) and each section also gives a guide to the maps available on the Marine Planning Evidence Base (link shown above).

### 4.4.1 Cultural heritage

The following maps have been included in Annex 1:

- Figure 1.1: Marine Plan Areas
- Figure 1.2: Heritage Assets

Other maps available in the Marine Planning Evidence Base include:

- Sites protected by Military Remains Act;
- National Parks;
- Scheduled Ancient Monuments; and
- Registered battlefields.

### 4.4.2 Geology, substrates and coastal processes

BGS Bedrock and Seabed Sediment maps are available to view on <a href="http://www.maremap.ac.uk/view/search/search/maps.html">http://www.maremap.ac.uk/view/search/search/maps.html</a>

Other maps available in the Marine Planning Evidence Base include:

Seabed habitats (Broadscale Habitats);

### 4.4.3 Seascape and landscape

The following maps have been included in Annex 1:

- Figure 1.2: Heritage Assets
- Figure 3.1: National Character Areas; and
- Figure 3.2: Seascape Character Areas (included as an example this refers to the East Plan area and a small portion of the South Plan area).

Other maps available in the Marine Planning Evidence Base include:

Land and sea visual resource

#### 4.4.4 Water

The following maps have been included in Annex 1:

Figure 4.1: Water Framework Directive Coastal Waterbodies and Estuarine Waterbodies

Other maps available in the Marine Planning Evidence Base include:

- Blue flag beaches; and
- Bathing waters compliance.

### 4.4.5 Air quality

The following maps have been included in Annex 1:

• Figure 5.1: Ports.

Other maps available in the Marine Planning Evidence Base include:

Air Quality Management Areas

#### 4.4.6 Climate

No figures have been included in Annex 1 for this topic. With regard to climate, the main mapped resource is the UK climate projections website (<a href="http://ukclimateprojections.metoffice.gov.uk/21708?projections=23665">http://ukclimateprojections.metoffice.gov.uk/21708?projections=23665</a>). The UK climate projections website has mapped data for a large number of different projections for different spatial levels (UK wide / coastal areas / river basin regions) plus a range of emission scenarios (eg low / medium / high emissions scenarios) and other variables (for example, winter / summer mean temperatures, winter / summer maximum and minimum temperatures, winter / summer mean precipitation, relative humidity, cloud amount etc. Because of the availability of mapped data on the climate projections website and the large range of data available, maps have not been reproduced in this report.

In addition, maps available in the Marine Planning Evidence Base include:

- Shoreline Management Plans;
- Offshore wind (round 1, 2 and 3 and ports suitable for round 3 development);
   and
- Wave lease areas and tidal lease areas.

### 4.4.7 Communities, health and well being

Maps available in the Marine Planning Evidence Base include:

- UK fishing fleet port landings 2014;
- Socio economic typologies of coastal communities
- Inshore fishing effort;
- Recreational model mapping (beach activity potential, boat angling activity potential, motor boat activity potential, personal water craft activity potential, sailing activity potential and scuba diving activity potential); and
- RYA yachting activity (including club sites, training centres, marinas, RYA cruising routes, racing areas and sailing areas).

### 4.4.8 Economy

The following maps have been included in Annex 1:

- Figure 5.1: Ports;
- Figure 8.1: UK fishing effort;
- Figure 8.2: Area Between International Maritime Organisation
- Routing Areas;
- Figure 8.3: Current Aquaculture Potential and Mussel Farm Lease Sites (included as an example this refers to the East Plan area and a small portion of the South Plan area).
- Figure 8.4: Shellfish bivalve classification (UK wide);

Other maps available in the Marine Planning Evidence Base include:

- Oil and gas award license blocks;
- Hydrocarbon fields;
- Licenced aggregate areas and exploration and options agreements;
- Cables (subsea and submarine cables) and surface and sub surface infrastructure;
- Navigational dredging;
- Dredging (including beneficial use of dredged material);
- Terrestrial energy installations (including nuclear power stations);
- Offshore wind (round 1, 2 and 3 and ports suitable for round 3 development);
- Wave lease areas and tidal lease areas:
- Carbon capture potential;
- Underground coal gasification;
- UK fishing fleet port landings 2014;
- Inshore fishing effort;
- Anchoring areas;
- National shipping density;
- Recreational model mapping (beach activity potential, boat angling activity potential, motor boat activity potential, personal water craft activity potential, sailing activity potential and scuba diving activity potential); and
- RYA yachting activity (including club sites, training centres, marinas, RYA cruising routes, racing areas and sailing areas).

### 4.4.9 Biodiversity habitats, flora and fauna

The following maps have been included in Annex 1:

- Figure 9.1: Seabird winter density;
- Figure 9.2: Seabird summer density;
- Figure 9.3: RSPB Important Bird Areas;
- Figure 9.4: Marine Protected Areas;
- Figure 9.5: Important Bass nursey areas;
- Figure 9.6: Grey seal at sea usage;

- Figure 9.7: Grey seal total usage;
- Figure 9.8: Harbour seal at sea usage; and
- Figure 9.9: Harbour seal total usage.

Other maps available in the Marine Planning Evidence Base include:

- Habitat Directive Annex 1 features;
- Habitats and species (FOCI and HOCI and broadscale habitats);
- Nature Reserves and Trusts;
- Underwater noise; and
- Fish habitat.
- EUNIS seabed habitats

## 5 Results of SA scoping

### 5.1 The scope of the SAs – SA framework

The purpose of the SA framework is to ensure that all the sustainability topics that could be affected by activities included in the marine plans are addressed. Marine plans cover a wide range of topics and activities and therefore the SA framework needs to be comprehensive. The marine plans (and any reasonable alternatives) are then appraised against the topics in the SA framework.

A consistent SA framework has been developed for the appraisal of each of the seven marine plan areas and it is important to consider whether every issue will need to form part of the SA for each marine plan. The report cards that have been produced set out in detail what the sustainability issues are for each marine plan area and this information has not been reproduced here. This section formally confirms which elements of the SA framework will be addressed in each marine plan appraisal. This is done in two parts. Table 5.1 presents the SA framework and indicates how this relates to the different plan areas. Section 5.2 onwards sets out what the implications of this are for each of the SA sub topics.

Table 5.1: SA framework

| Overarching SA topic    | SA sub topic  | NE (I) <sup>13</sup> | NE (O)   | NW (I)   | NW (O)   | SW (I)   | SW (O)   | SE (I)   |
|-------------------------|---|----------------------|----------|----------|----------|----------|----------|----------|
| Physical and Chem       | nical Aspects   |                      |          |          |          |          |          |          |
| Cultural heritage       | Heritage Assets within marine plan areas                              | <b>√</b>             | <b>√</b> | <b>√</b> | <b>√</b> | <b>√</b> | <b>✓</b> | ✓        |
|                         | Heritage Assets adjacent to marine plan areas                         | <b>√</b>             | ✓        | ✓        | ✓        | <b>√</b> | <b>√</b> | <b>√</b> |
| Geology, substrates and | Seabed substrates and bathymetry                                      | <b>✓</b>             | <b>✓</b> | <b>✓</b> | ✓        | <b>✓</b> | <b>✓</b> | <b>✓</b> |
| coastal processes       | Coastal features and processes  | ✓                    | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |
| Seascape and landscape  | Effects on seascape and landscape                                     | <b>✓</b>             | <b>√</b> | <b>✓</b> | ✓        | <b>√</b> | <b>✓</b> | <b>√</b> |
| Water                   | Tides and currents  | ✓                    | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |
|                         | Water temperature and salinity  | ✓                    | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |
|                         | Pollution and water quality (including eutrophication)                | ✓                    | <b>√</b> | ✓        | ✓        | <b>✓</b> | <b>√</b> | <b>√</b> |
|                         | Marine litter   | ✓                    | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |
| Air quality             | Air pollutants  | ✓                    | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |
| Climate                 | Greenhouse gas emissions  | ✓                    | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |
|                         | Climate change resilience and adaptation (including coastal flooding) | <b>√</b>             | ✓        | <b>√</b> | <b>√</b> | <b>√</b> | <b>√</b> | ✓        |
| Social and Econon       | nic Aspects   |                      |          |          |          |          |          |          |

<sup>&</sup>lt;sup>13</sup> "I" denotes relevance to the inshore plan SA and "O" denotes relevance to the offshore plan SA

| Overarching SA topic                     | SA sub topic   | NE (I) <sup>13</sup> | NE (O)   | NW (I)   | NW (O)   | SW (I)   | SW (O)   | SE (I)   |
|--|--|----------------------|----------|----------|----------|----------|----------|----------|
| Communities,<br>health and well<br>being | Health and wider determinants of health and Effects on protected equality groups | ✓                    |          | <b>✓</b> |          | ✓        |          | ✓        |
| 3  | Effects on communities (including employment and skills)                         | <b>✓</b>             | <b>✓</b> | <b>√</b> | ✓        | <b>✓</b> | ✓        | ✓        |
| Economy                                  | Ports and shipping (including dredging and disposal)                             | <b>✓</b>             | <b>√</b> | <b>✓</b> | <b>✓</b> | ✓        | <b>✓</b> | <b>✓</b> |
|  | Fisheries and aquaculture  | ✓                    | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |
|  | Leisure / recreation   | ✓                    | ✓        | ✓        | ✓        | ✓        | ✓        | ✓        |
|  | Tourism  | ✓                    |          | ✓        |          | ✓        |          | ✓        |
|  | Marine manufacturing   | ✓                    |          | ✓        |          | ✓        |          | ✓        |
|  | Defence  | ✓                    | ✓        | ✓        | ✓        | ✓        | <b>√</b> | ✓        |
|  | Aggregate Extraction   | ✓                    |          | ✓        | ✓        | ✓        |          | ✓        |
|  | Energy Generation and infrastructure development  Renewables                     | ✓                    | ✓        | <b>✓</b> | <b>✓</b> | ✓        | <b>✓</b> | ✓        |
|  | Carbon capture and storage   | ✓                    | ✓        |          |          |          |          |          |
|  | Nuclear  | ✓                    |          | ✓        |          | ✓        |          |          |
|  | Fossil Fuels   | ✓                    | ✓        | ✓        | ✓        |          |          | ✓        |
|  | Seabed Assets (e.g. cables, outfalls and pipelines)                              | <b>√</b>             | <b>√</b> | <b>✓</b> | <b>√</b> | <b>√</b> | ✓        | <b>√</b> |
| <b>Ecological Aspect</b>                 | s  |                      | •        |          |          | ·        |          | •        |

| Overarching SA topic                          | SA sub topic  | NE (I) <sup>13</sup> | NE (O)   | NW (I)   | NW (O) | SW (I)   | SW (O)   | SE (I)   |
|---|---|----------------------|----------|----------|--------|----------|----------|----------|
| Biodiversity,<br>Habitats, Flora and<br>Fauna | Protected Sites and Species                         | ✓                    | ✓        | ✓        | ✓      | ✓        | ✓        | ✓        |
|   | Benthic and Inter-Tidal Ecology                     | ✓                    | ✓        | ✓        | ✓      | ✓        | ✓        | ✓        |
|   | Fish and Shellfish (inc. cephalopods)               | <b>√</b>             | <b>√</b> | <b>√</b> | ✓      | <b>√</b> | <b>√</b> | <b>√</b> |
|   | Marine Mega Fauna (inc. marine mammals and turtles) | <b>√</b>             | <b>√</b> | <b>√</b> | ✓      | ✓        | <b>√</b> | <b>√</b> |
|   | Plankton  | ✓                    | ✓        | ✓        | ✓      | ✓        | ✓        | ✓        |
|   | Ornithology   | ✓                    | ✓        | ✓        | ✓      | ✓        | ✓        | ✓        |
|   | Invasive species                                    | ✓                    | ✓        | ✓        | ✓      | ✓        | ✓        | ✓        |

## 5.2 Scope of the SAs: Cultural heritage

Heritage assets within marine plan areas and Heritage assets adjacent to marine plan areas: This topic has been scoped in for all seven marine plan areas. Heritage assets - including designated heritage assets and non-designated heritage assets of equivalent significance - are present or potentially present within each marine plan area. Heritage assets are also present on land in the vicinity of inshore marine plan areas; their setting will often encompass the adjacent marine plan area. Heritage assets both within and adjacent to marine plan areas are susceptible to damage from marine activities. Heritage assets are also an important source of social and economic benefits to coastal communities and sea users. The UK Marine Policy Statement and the National Planning Policy Framework include policies for heritage assets and the historic environment, and cultural heritage – including architectural and archaeological heritage. Consequently, it is important that marine plans are assessed in respect of cultural heritage.

## 5.3 Scope of the SAs: Geology, substrates and coastal processes

Seabed substrates and bathymetry and Coastal features and processes: Issues relating to physical processes and resultant changes to the coast, nearshore sea bed and sediments are of greatest concern in the inshore plan areas where marine processes are influenced by human activity and development. The interlinked issues of coastal squeeze and how to adapt to climate change are both of concern in the inshore plan areas. Each plan area will have its own individual issues at a site specific level but strategically the topic is scoped in for all inshore plan areas. The offshore plan areas are perhaps less significant in relation to changes to marine processes and sediments. However, there are a number of designated sites for conservation which rely on seabed substrates and sediment processes in these offshore areas. In addition, some human activity such as oil/gas extraction, offshore wind developments, uses of certain fishing gear and the potential for CO<sub>2</sub> storage etc has the potential affect geology or substrates in such plan areas. Therefore on a precautionary basis this topic is also scoped in to the offshore plan areas.

# 5.4 Scope of the SAs: Seascape and landscape

Seascape and Landscape: Seascape and landscape has been scoped in for all seven marine plans and is relevant to the inshore and offshore areas. The visual impacts of developments on the landscape/seascape have the potential to influence views in different ways, affect the setting of historical/cultural features and potentially reduce local revenue. These may arise from both offshore developments and their coastal-based infrastructure. Potential sensitive receptors include people living in (or visiting) an area of the coast or at sea and the setting, and therefore perception of, designated landscapes non-designated landscapes and cultural/heritage assets for which there are particular cultural associations. The present seascape is influenced by a diverse array of fixed and transient activities (eg shipping, aggregate extraction, gas field infrastructure and other activities). Some of these may have strong cultural associations (eg fishing). In addition, all the marine plan areas have overlapping designations that affect the coast. These include National Parks, AONBs and

Heritage Coasts as well as sites in the North West, North East and South East being considered for inclusion on the World Heritage List. Therefore, it is important that any activities promoted in the marine plans are assessed against this topic.

### 5.5 Scope of the SAs: Water

Tides and currents: This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. Many activities proposed within the marine plans could potentially have an impact on currents and the tidal regime and climate change scenarios could exacerbate the impacts of tides and currents on coastal areas. Therefore, it is important that any activities promoted in the marine plans are assessed against this topic.

Water temperature and salinity: This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. The UK Climate Predictions 2009 indicate that the seas in all of the regions will continue to increase in temperature. Therefore, it is important that any activities promoted in the marine plans are assessed against this topic.

Pollution and water quality (including eutrophication): This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. Developments and other activities at the coast and at sea can have adverse effects on transitional waters, coastal waters and marine waters and historical problems exist that also need to be considered within the marine plans. Therefore, it is important that any activities promoted in the marine plans are assessed against this topic.

Marine litter: This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. Marine litter is found in oceanic water, sediments on beaches and litter on UK beaches is a particular problem because the geographical location of the UK worsens this problems (the English Channel being one of the busiest shipping lanes in the world, proximity to the industrialised nations of northern Europe and the Atlantic gulf stream). There appears to be a particular issue with beach litter in the South West Plan Area. However, all plan areas have a problem with marine litter to some extent. Therefore, it is important that any activities promoted in the marine plans are assessed against this topic.

# 5.6 Scope of the SAs: Air quality

Air quality: This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. With regard to offshore effects, shipping is a key contributor to sulphur dioxide emissions and any actions within the plan that could affect the length of shipping routes could have an impact on emissions. With regard to inshore effects, ongoing challenges with air quality (from transport emissions amongst others) in Air Quality Management Areas at the coast and increased shipping activity, port expansion and associated industry growth could lead to increased emissions at coastal locations. This effect is likely to be more significant in the South East Marine Plan area due to the extent of Air Quality Management Areas and the fact that port activities are a significant contributor to

poor air quality. However, actions within the marine plans could have a significant effect on air quality in any of the marine plan areas. Therefore, it is important that any activities promoted in the marine plans are assessed against this topic.

## 5.7 Scope of the SAs: Climate

Greenhouse gas emissions: This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. Over the next 20 years, renewable energy generation could contribute to a decrease in greenhouse gas emissions. The majority of renewable energy activity is in the inshore area but there is some activity in the offshore area, for example offshore wind areas in the North West offshore. In addition, any plan policies which affect the length of shipping routes will affect greenhouse gas emissions.

Climate change resilience and adaptation (including coastal flooding): This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. The impacts of climate change are already being observed, and impacts are predicted to continue. The main focus for climate change resilience and adaptation is the inshore zone and will address issues such as coastal inundation and flooding, loss of inter-tidal habitat and improving resilience of existing coastal defences and developments. However, there are some issues which may affect the offshore marine plans including ensuring offshore wind energy development (and any other offshore development) is resilient to the effects of climate change.

## 5.8 Scope of the SAs: Communities, health and well being

Effects on Communities (Including Employment and Skills): This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. Potential receptors in the inshore plan areas include: declining fishing and other traditionally skilled communities; low paid, low skill workers, unemployed and under-employed people in coastal communities; and households affected by multiple forms of deprivation. Issues with relation to the offshore plan areas relate to employment and economic activity in sectors including fishing, ports and shipping, defence and maritime renewables sector. Communities dependent on fisheries and tourism are particular vulnerable to change because of the declines in fisheries and the seasonal nature of tourism. The region showing the highest dependency in terms of employment in fishing is South West England. The South East is the plan area with the highest number of people employed through the ports and shipping sector whereas the North East has the lowest. There is a big maritime skills sector in the North West Marine Plan area. There is high tourism employment dependency across all plan areas although this is most significant in the South West of England. There is also a need to address socio-economic deprivation and coastal communities particularly in the North West and North East as these areas are feeling the effects of industrial decline. It is recommended that the sub-topics of communities and employment and skills are considered together in one sub-topic.

Communities: Health and Wider Determinants of Health and Effects on Protected Equality Groups: These topics have been scoped in for all four inshore marine plans however it is recommended that it is scoped out for the three offshore plan areas.

Potential sensitive receptors include ageing coastal communities, disabled people and people with long term health conditions. Health deprivation and disability tends to be higher on the coast compared with the rest of England. In addition, deprivation in relation to income, income deprivation affecting children and older people, employment and education is higher. In addition the overall trend of an ageing population is likely to continue and could increase the proportion of households who are particularly vulnerable to flooding and other adverse climate change risks facing coastal communities. Therefore, it is important that any activities promoted in the marine plans are assessed against this topic.

## 5.9 Scope of the SAs: Economy

Ports and shipping: This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. The UK ports sector is the largest in Europe, in terms of tonnage handled. Shipping is an essential and valuable economic activity for the UK. There are significant movements of ships around the UK coast and into and out of UK ports serving the UK's economic interests. There are also significant levels of passing traffic, for example through the English Channel and other ships freely using the navigable seas adjacent to the UK. The South East is the busiest in the marine plan areas under consideration in terms of both ports and shipping routes. However, all of the marine plan areas have major ports and shipping routes within them. Therefore, it is important that any activities promoted in the marine plans are assessed against this topic.

Fisheries and aquaculture: This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. Aquaculture is relevant only to the inshore areas and all of the plan areas have some aquaculture activity. Even in the North East inshore plan area, which has the least concentration of aquaculture sites, there could be future potential and employment in aquaculture can be significant to areas which are deprived or peripheral. With regard to fishing this is an important activity in all the plan areas both in the inshore and offshore areas. Therefore, it is important that any activities promoted in the marine plans are assessed against this topic.

Leisure / recreation and tourism: Tourism has been scoped in for all four inshore marine plans however it is recommended that it is scoped out for the three offshore plan areas as tourism is generally coastal with the significant issue being the effects that marine plan activities may have on coastal towns and cities that are important for tourism (activities that visitors may participate in are addressed under leisure and recreation). With regard to leisure and recreation, most activity happens in the inshore area. However, boating activity and activities such as wildlife watching do cross into offshore areas. Therefore, leisure and recreation have been scoped in for all seven plan areas. With regard to tourism, all of the plan areas have some coastal towns that are in the list of top 20 towns and cities visited in Great Britain by UK residents. In the North West inshore plan area examples include Blackpool (ranked 3rd) and Liverpool (ranked 6th). In the North East inshore plan area, Scarborough (ranked 2nd) and Berwick-upon-Tweed (ranked 17th). In the South East inshore plan area, London (ranked 1st) and in the South West Newquay (ranked 13th) and Bristol (ranked 15th). With regard to leisure and recreation, the South West is

particularly important for boating (with the South Coast generally dominating boating activity). However, the Merseyside area, Thames area and the North East coastal region are also popular for boating. In addition, all of the plan areas include a number of Royal Yachting Association cruising routes, sailing areas and racing areas (which cross inshore and offshore areas). Other examples include recreational and sport fishing which is widespread although participation rates are highest in the South West, South East and North East.

Marine manufacturing: This topic addresses industry that may affect the coastal zone and also securing manufacturing investment and the associated supply chain for offshore wind in the UK (which is a key objective of the UK Government with regard to marine manufacturing). This topic has been scoped in for all four inshore marine plans. However it is recommended that it is scoped out for the three offshore marine plan areas. The North West and the North East plan areas are particularly important with regard to industry in the coastal zone. In addition, Avonmouth is important in the South West plan area and although the South East Plan area is not a significant area for industry in the coastal area, Ports such as Port of London are key in exporting UK manufactured goods overseas. With regard to the supply chain for offshore wind, this will require a port (or ports) with the required facilities and commercial land. These would provide an industrial hub for wind turbine manufacturers and their supply chain. Examples include Barrow (North West plan area), Newcastle upon Tyne and Hartlepool (North East plan area) and Ramsgate and Medway (South East). There are no ports suitable in the South West plan area.

Defence: This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. Sea training is carried out within defined military practice and exercise (PEXA) training areas and all of the marine plan areas have PEXA areas within them or some other military presence. Therefore, it is important that any activities promoted in the marine plans are assessed against this topic.

Aggregate extraction: This topic has been scoped in for the following marine plan areas: North West (inshore and offshore), South East, South West (inshore) and North East (inshore). The North West has licenced areas in both the inshore and offshore. The South East is an area where there are future technical opportunities and the area has a number of important aggregate wharves where resource is landed. The South West has a very small amount of licenced aggregate in the inshore area but there could be future technical opportunities in this area. The North East (inshore and offshore) and the South West offshore area does not have any licenced areas or any future potential for aggregate extraction. However, both the South West and the North East inshore have a number of wharves where aggregate resource is landed so the inshore effects have been scoped into the SA.

Energy generation and infrastructure development – renewables: This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. The majority of renewable energy activity is in the inshore area but there is some activity in the offshore area, for example offshore wind areas in the North West offshore. With regard to renewables, each plan area has a slightly different focus so the focus of the SA might be slightly different. In the North West, the focus is on offshore wind as the area has several operational wind farms

(although none in round 3) and tidal power (Tidal Lagoon Power has an early stage proposal to create tidal lagoon north of Workington on west Cumbrian coast and there are also plans for a Wyre tidal energy barrage and a Mersey barrage). In the South West there is no current or planned offshore wind activity and the main focus is on wave and tidal energy. The South West is the only plan area that has lease agreements for tidal and wave energy. There are tidal stream/lease agreements for lease sites in the South West inshore (Pulse Tidal Limited, Bristol Channel), North Cornwall Wave Demonstration Zone, North Devon Tidal; Demonstration Zone and Falmouth Bay Test Site (FabTest) and Tidal Lagoon Power are considering the potential of Bridgwater Bay, Somerset to develop a tidal lagoon). In the North East, there is a small amount of offshore wind (but no round 3 sites) but there is a Wave and tidal demonstration facility at the National Renewable Energy Centre (NAREC). In the South East, there is a small amount of offshore wind (but no round 3 sites) and no lease areas for tidal or wave energy.

Energy generation and infrastructure development – carbon capture and storage: This topic has been scoped into the North East inshore and offshore plan assessments and scoped out of the other areas. Potential projects in this area include the Teesside low carbon project. Because of the nature of the technology which involves storing captured emissions in depleted oil and gas fields or deep saline aquifer formations, and the uncertain financial situation (in the 2015 Chancellor's Autumn Statement, HM Government confirmed that the £1 billion ringfenced capital budget for the Carbon Capture and Storage Competition is no longer available) this technology is only likely to happen in the medium term in the North East area which has a significant resource in terms of depleted oil and gas reserves and suitable geology.

Energy generation and infrastructure development – nuclear: This topic has been scoped in for the South West, North West and North East inshore plan areas. All of these areas contain nuclear power stations which affect the inshore zone – South West (Hinkley point power station and planning permission was granted for Hinkley Point C in 2013), North West (Heysham 1 and 2) power stations are in the North West plan area, North East plan area (Hartlepool). uGen's Moorside project aims to develop a new generation nuclear power station of up to 3.6GW on land in West Cumbria, North West England. There are no nuclear power stations in the South East plan area and no future development plans.

Energy generation and infrastructure development – fossil fuels: This topic has been scoped in for the North West and North East inshore and offshore plan areas and the South East plan area. With regard to oil and gas the main focus is the North West inshore and offshore plan areas and the North East offshore plan areas. In the South West plan area there are no oil or gas fields, no oil or gas terminals and no currently licenced areas and a large portion of this plan area is designated as a restricted area. In the South East there is a small proportion of the area that is 28th round provisional award. There are no oil or gas fields, terminals or current licenced areas in the South East. With regard to underground coal gasification there are a number of areas along the coast of the North East inshore plan area north of Sunderland subject to Coal Authority Underground coal gasification licenses and one area off the coast of the Wirral in the North West inshore plan area.

Seabed assets (eg cables, outfalls and pipelines): This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. The South West Coast acts as a landing point for a substantial number of economically important cable connections across the Atlantic to North America. The North West inshore and offshore area contains several cables crossing the Irish Sea linking England with Ireland, Northern Ireland and also contains a power interconnector to the Isle of Man and there is an interconnector from Kent to Belgium ('Nemo') currently being installed in the South East plan area. However, all of the areas (both inshore and offshore) are crossed with a number of cables, outfalls and pipelines and potential new sub-sea cabling to reinforce and better connect certain sections of the onshore grid is a key part of supporting the growth of renewable and low carbon generation. Therefore, it is important that any activities promoted in the marine plans are assessed against this topic.

### 5.10 Scope of the SAs: Biodiversity, habitats, flora and fauna

Protected sites and species: Protected sites and species are present in all marine plan areas and have been scoped in for all seven marine plan areas. Connectivity and the creation of a coherent network of protected sites is a key aim of national and international legislation and conventions that requires cross-border co-operation across marine plan and national / international boundaries. A number of protected sites straddle marine plan boundaries or cross boundaries with adjacent marine planning authorities. Many protected species are highly mobile and / or widespread; with populations extending beyond individual plan boundaries, UK administrative boundaries and UK marine space. There are links to other areas of the Biodiversity topic, as numerous species of fish, birds, marine megafauna etc. are protected and / or are protected as part of protected sites. Protected sites incorporate benthic and intertidal areas and many sites rely on the maintenance of geomorphological, sedimentary, coastal and ocean processes to retain their special character. Protected species may interact with a wide variety of economic activities at the coast and in inshore and offshore plan areas (eg dredging, aggregates, energy, shipping etc.). Activities far inland may affect protected species, particularly birds and migratory fish, and can affect migration, breeding or feeding areas or water quality. This topic is therefore an important consideration for all marine plan areas.

Benthic and inter-tidal ecology: This topic has been scoped in for all seven marine plan areas. A wide variety of habitats and species are found within the inshore and offshore plan areas, many of which are of conservation importance or can be found within areas designated for protection. There are numerous influences on the varying species and habitat types, including damage or disturbance from marine energy developments, interactions with fishing and pollution to name but a few. Consideration must be given to large scale and widespread increases in proposed coastal and offshore developments, increasing effects predicted from climate change, and changes to marine environmental legislation. Therefore, it is important that any activities carried out in the marine plan areas are assessed against this topic.

Fish and shellfish (inc. cephalopods): This topic has been scoped in for all seven marine plan areas. The specific species and issues requiring consideration vary depending on the plan area. Fish stock health is generally only monitored for commercially fished species, with little information on non-target species. Estuaries

and coastal areas are important for migratory fish species as well as providing important nursery and spawning habitat for many other fish and shellfish. Large areas of inshore and offshore plan areas provide important nursery and spawning habitat, for a range of species. There is an obvious interaction with commercial and recreational fishing but other economic activities have the potential to interact with this topic, including dredging, aggregate extraction, energy generation and distribution through subsea cables, shipping and water quality in particular. This topic is therefore an important consideration for all marine plan areas.

Marine mega fauna (inc. marine mammals and turtles): This topic has been scoped in for all seven marine plan areas and is relevant to the inshore and offshore plan assessments. Numerous sensitive receptors can be found in these marine plan areas, including harbour porpoise, harbour seals, grey seals and leatherback turtles. There are numerous strategic level concerns for cetaceans, seals, turtles and basking sharks in the marine plan areas, with drivers including climate change, anthropogenic influence from offshore developments, fishing and marine vessel activity along with marine pollution and litter. Therefore, it is important that any activities carried out in the marine plan areas are assessed against this topic.

Plankton: This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. Long term observations suggest that plankton are generally healthy and subject to few anthropogenic disturbances. Increasingly effects are predicted on plankton from climate change due to increasing sea temperatures and ocean acidification. With an increase in large scale and widespread coastal and offshore developments, plankton may be considered increasingly at risk, while changes to marine legislation<sup>14</sup> mean that plankton has become increasingly important as a proxy for assessing the condition of pelagic habitats. Therefore, it is important that any activities promoted in the marine plans are assessed against this topic.

Ornithology: This topic has been scoped in for all seven marine plans and is relevant to the inshore and offshore plan assessments. The effects of the inshore marine plans are likely to be more significant, however, activities within the offshore area can affect migration routes and feeding areas of various species. Each of the marine plan areas is important for seabirds in its own right, with a host of international and national designations in these areas demonstrating their importance and all of the marine plan areas are under pressure from various forms of development and these could have impacts on bird's habitat and species. Activities associated with leisure and recreation can also impact on some seabird species, largely through disturbance to nesting sites or disturbance to feeding birds by recreational boat traffic.

Invasive species: This topic has been scoped in for all seven marine plan areas. Invasive species are found in all four inshore marine plan areas with information relating to the offshore area being limited. Pathways for the introduction and / or spread of invasive species are present in all seven marine plan areas, so it is a potential risk and an important consideration for the development of all marine plans.

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<sup>&</sup>lt;sup>14</sup> The Marine Strategy Framework Directive introduces the use of plankton with a benthic life stage as a monitoring proxy

Key introduction pathways for invasive species are commercial shipping, recreational boating, aquaculture stock imports and natural dispersal.

# 6 Results of SA scoping – scope and level of detail

## 6.1 Geographical scope including transboundary effects

The SA will cover direct and indirect effects within the inshore and offshore marine plan areas but also possible direct and indirect effects relating to adjoining or connected terrestrial areas (including devolved administrations). Baseline data has been collected for such terrestrial areas (where appropriate) and presented in the issues database in order to judge any terrestrial effects of the marine plans.

The SA will also need to address effects on other Member States where relevant. It is possible that transboundary effects on other Member States will be identified at the appraisal stage. Therefore data related to transboundary issues has been collected, where appropriate, at the scoping stage to support the appraisal.

The spatial extent of the potential effects will need to be considered as part of the SA and it is recommended that the following general definition is used unless there is a specific more appropriate definition for individual topics:

- International / Transboundary Effects extending beyond the UK
- National Effects within England or the UK but extending beyond the plan area; and
- Local/Regional Effects within the plan area or confined to the local area, typically <5km from source.</li>

## **6.2 Temporal scope**

The marine plans will cover a 20 period and therefore the SA will consider the effects of the marine plans over the next 20 years and beyond where possible. It should be noted that making predictions beyond five years into the future increases the levels of uncertainty in the prediction of effects with this uncertainty increasing over longer time horizons. The duration of effects will be classified as follows:

- Short term between 3-5 years within the marine plan review period;
- Medium term 5-20 years within the marine plan duration; and
- Long term 20+ years beyond the marine plan duration.

#### 6.3 Level of detail

The appraisal will need to address both direct and indirect effects and distinguish between effects that are a direct result of the plan or are secondary, as they occur away from the original effect or as a result of a complex pathway. The appraisal will also need to consider the frequency of the effect, the probability of that effect occurring and whether the effect is likely to be permanent or temporary, reversible or irreversible as part of the consideration of the significance of the identified effects. The magnitude of the effect will need to be defined and it is recommended that the following general definition is used unless there is a specific more appropriate definition for individual topics:

- High 80%+ receptor or environmental capacity affected;
- Medium 40-80% of receptor or environmental capacity of affected;
- Low 20-40% of receptor or capacity affected; and
- Very Low <20% of receptor or capacity affected.

Department of Communities and Local Government (DCLG) guidance<sup>15</sup> on SEA efficiency and effectiveness clarifies that the level of detail of an appraisal should correspond to the level of detail of the plan being appraised. This reflects the SEA Regulations which state "The report must include the information that may reasonably be required taking into account current knowledge and methods of appraisal, the contents and level of detail in the plan or programme, its stage in the decision-making process and the extent to which certain matters are more appropriately assessed at different levels in that process to avoid duplication of the assessment".

The marine plans are regional scale strategic plans which do not seek to address site or project-specific details. The marine plans do not directly result in the development of new projects. They provide guidance for decision makers to assist in consenting (or otherwise) activities in the marine plan areas and also more general guidance with regard to management measures. As such, the exact location and nature of new activities will also depend upon market forces and development proposals being received.

This lack of detail on location and nature of activities results in uncertainty when predicting the effects of activities and consequently strategic impacts can be identified with the most certainty, together with the extent to which the marine plans seek to avoid or offset these impacts. Correspondingly, this SA's predictions and proposed mitigation measures will primarily be at a strategic level. At each stage of the appraisal any uncertainty, data gaps and assumptions taken will be made explicit and at each stage the SA will take a precautionary approach.

#### 6.4 Cumulative effects

Cumulative effects arise, for example, where several proposals each have insignificant effects but together have a significant effect; or where several individual effects of the plan (eg noise, dust and visual) have a combined effect. This includes synergistic effects where interactions produce a total effect greater than the sum of the individual effects. These will be identified and appraised as part of the SA.

http://www.communities.gov.uk/publications/planningandbuilding/towardsmoreefficient.

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<sup>&</sup>lt;sup>15</sup> DCLG (2010) 'Towards a more efficient and effective use of Strategic Environmental Assessment and Sustainability Appraisal in spatial planning',

# 7 Related appraisal processes

## 7.1 Habitat Regulations Assessment

As well as SA, the marine plans are also subject to a Habitat Regulations Assessment (HRA). This process is being undertaken as a requirement of the Habitats Regulations<sup>16</sup> for inshore and offshore waters and will assess the effects the marine plans may have on the network of Natura 2000 sites. Natura 2000 is a network of areas designated to conserve natural habitats that are in danger of disappearance in their natural range, have a small natural range, or present outstanding examples of typical characteristics of the biogeographic region and/or species that are rare, endangered, vulnerable or endemic within the European Community. Their creation is specified in the Habitats and Birds Directives as outlined below and referred to collectively as European sites. These European sites include:

- Special Areas of Conservation (SACs) designated under the EC Directive on the Conservation of Natural Habitats and of Wild Fauna and Flora (the Habitats Directive) for their habitats and/or species of European importance;
- Special Protection Areas (SPAs) classified under the EC Directive on the Conservation of Wild Birds (the Birds Directive) for rare, vulnerable and regularly occurring migratory bird species and internationally important wetlands:
- Sites of Community Importance (SCIs) that have been adopted by the European Commission but not yet formally designated by the government of each country; and
- Candidate SACs (cSACs) that have been submitted to the European Commission, but not yet formally adopted.

The term HRA refers to the assessment of the implication of a proposed plan on one or more European designated sites in view of the sites' conservation objectives. The marine plans HRA process will be carried out in the following stages:

- Pre-Screening: identifying an initial list of potentially relevant European sites for consideration and setting out the HRA methods;
- Screening: identifying (ie 'screening in' to the next assessment stage)
  those European sites for which there is a 'likely significant effect' (LSE)
  from the marine plans (or where a LSE cannot be excluded).
- Appropriate Assessment Information Review (AAIR): assessing the marine plans' effects on the integrity of the 'screened in' European sites.

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<sup>&</sup>lt;sup>16</sup> The Conservation of Habitats and Species Regulations 2010 which replace the Conservation (Natural Habitats, &c.) Regulations 1994 (as amended) in England and Wales; and the Offshore Marine Conservation (Natural Habitats) Regulations 2007 (SI 2007 No. 1842) (as amended) (the Offshore Habitats Regulations).

 Appropriate Assessment (AA) preparing the formal assessments and HRA record on the basis of the AAIR findings.

The HRA will be presented in separate documents but the findings will be reflected within the findings of the full SA of the remaining marine plans.

### 7.2 Equalities Impact Assessment screening process

#### 7.2.1 Introduction

The Equality Act 2010 covers nine protected characteristics which cannot be used, either directly or indirectly, as a basis for unequal treatment. A new equality duty, set out in Section 149 of the Equality Act requires public bodies to give due regard to the need to:

- Promote equality of opportunity,
- To tackle unfair discrimination; and
- To promote good relations between different groups.

Therefore, as part of the SA it is necessary to consider whether the following groups (protected characteristics) are likely to be disproportionally affected by the policies in the marine plans (as compared to the rest of the population). An assessment will be carried out during the options assessment and draft plan assessment as part of the SA:

- Age;
- Being or becoming a transsexual person;
- Being married or in a civil partnership;
- Being pregnant or having a child;
- Disability;
- Race including colour, nationality, ethnic or national origin;
- Religion, belief or lack of religion/belief;
- Sex / gender; and
- Sexual orientation.

This process is called an Equalities Impact Assessment (EQIA).

# 7.2.2. What are the marine plans and who will they affect?

Section 2 sets out the context for the marine plans and their remit. The marine plans may affect a diversity of people with an interest in the marine environment. Marine planning policies will have implications on:

 The preparation of applications by developers and assessment of these applications by marine licensing authorities and other decision makers;

- The choice of location of marine developments and activities; and
- The requirements placed on the management, construction, operation and expansion of marine proposals.

A number of sectors/groups of people will be affected by the adoption of the marine plans including:

- Marine activities/businesses: oil and gas, renewable energy, ports & harbours, aquaculture, aggregates, coastal defence as well as all the associated infrastructure etc;
- Developers of licenced activities in England's marine areas (all such activities listed above);
- Marine nature conservation, coastal defence, and marine heritage activities/conservation;
- Coastal communities:
- · Public authorities; and
- The Ministry of Defence.

### 7.2.3 Key considerations

The marine plans will have effects on communities both positively and negatively. For example, coastal communities may benefit economically and socially from projects that are licenced under the framework of the marine plans. Communities may also suffer from possible adverse effects of marine projects if they do not consider issues such as air quality, landscape issues and flood risk adequately. However, what needs to be demonstrated through the EQIA process is whether communities with the protected characteristics are likely to be affected *disproportionately* by the marine plans because of the way they are written and implemented.

Another key consideration is that although marine plans set the framework for consent and licensing of projects they do not provide services on the ground. Therefore, they are not likely to be discriminatory in the way they operate.

Bearing all of these issues in mind regarding the scope and purpose of marine plans, Table 7.1 outlines some considerations for each protected characteristic and the conclusions regarding whether the marine plans are likely to have a disproportionate impact on people who have this protected characteristic.

**Table 7.1: Equalities Impact Assessment - Considerations** 

| Table 7.1: Equalities Impact Assessment - Considerations |  |  |  |
|--|--|--|--|
| Protected characteristic                                 | Issues to consider   | Conclusion   |  |
| Age  | Many coastal communities comprise sizeable or growing numbers of older people and this is the case with regard to the marine plan areas under consideration. Whilst this places an increased demand on health and social care services, provision of these services is not an issue which the marine plans can have an influence on.  Many older people face issues  | The marine plans will not have a disproportionate impact on people who have this protected characteristic. |  |
|  | regarding disability and this is addressed in the disability section below with regard to access to recreational opportunities etc.  |  |  |
| Sex / gender   | Baseline data collected for this scoping report has indicated that women provide certain roles within the fishing and aquaculture business. Women in fisher families, enterprises and communities take on multiple responsibilities ranging from being accountants and book keepers, to administrators, crews' cooks, drivers, representative at meetings and community organisers. There is also evidence that a lot of on-shore processing activities are dominated by women as a part of the aquaculture industry <sup>17</sup> . However, these businesses are generally run as a partnership, and quite often as a family. The marine plans will include policies on fisheries but it is not expected that these could be implemented in a way that will discriminate on the grounds of gender. | The marine plans will not have a disproportionate impact on people who have this protected characteristic. |  |

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<sup>&</sup>lt;sup>17</sup> MMO Social impacts of fisheries, aquaculture, recreation, tourism and marine protected areas in Marine Plan areas in England, 2013.

| Protected characteristic                        | Issues to consider   | Conclusion   |
|---|--|--|
| Being or<br>becoming a<br>transsexual<br>person | Limited data is available regarding<br>the numbers of people undergoing<br>gender reassignment at any one<br>time.   | The marine plans will not have a disproportionate impact on people who have this protected characteristic. |
|   | The House of Commons Women and Equalities Committee have recently published a report on transgender equality (January 2016) <sup>18</sup> . This report sets out the key issues as access to NHS services and tackling transphobia in relation to a number of issues (reporting hate crime, recording of names and identities, prison and probation services, online services and media transphobia, schools and education and social care). Planning (marine or terrestrial) is not mentioned as a key issue. | CHARACTERISTIC.  |
| Being married or in a civil partnership         | The marine plans are not providing services that could unfairly discriminate against people who are married or are in a civil partnership.   | The marine plans will not have a disproportionate impact on people who have this protected characteristic. |
| Being pregnant or having a child                | The marine plans are not providing services that could unfairly discriminate (or place at harm) pregnant women. The marine plans have limited potential to measurably impact on discrimination and equal treatment of pregnant women or breastfeeding mothers.   | The marine plans will not have a disproportionate impact on people who have this protected characteristic. |
| Disability                                      | The marine plans are not providing services that could unfairly discriminate on the basis of disability. With regard to access to recreation / leisure this is addressed by the Disability Discrimination Act so any premises which are subject to public access would not be allowed to unfairly discriminate on this basis.  | The marine plans will not have a disproportionate impact on people who have this protected characteristic. |

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<sup>&</sup>lt;sup>18</sup> House of Commons Women and Equalities Committee Transgender Equality First Report of Session 2015–16. Report, together with formal minutes relating to the report. http://www.publications.parliament.uk/pa/cm201516/cmselect/cmwomeq/390/390.pdf

| Protected characteristic                                      | Issues to consider  | Conclusion   |
|---|---|--|
| Race including colour, nationality, ethnic or national origin | The marine plans are not providing services that could unfairly discriminate on the basis of race or national origin.               | The marine plans will not have a disproportionate impact on people who have this protected characteristic. |
| Religion, belief<br>or lack of<br>religion/belief             | The marine plans are not providing services that could unfairly discriminate on the basis of religion or lack of religion / belief. | The marine plans will not have a disproportionate impact on people who have this protected characteristic. |
| Sexual orientation.   | The marine plans are not providing services that could unfairly discriminate on the basis of sexual orientation.                    | The marine plans will not have a disproportionate impact on people who have this protected characteristic. |

## 7.2.3 What is the approach?

It is suggested that a full EQIA is not necessary as current evidence shows that the marine plans will not impact disproportionately on protected characteristics and has minimal relevance to equality issues.

The approach that is proposed is to include an integrated equalities impact assessment within the SA. This is to enable the Marine Management Organisation (MMO), as a public authority, to fulfil its duty to give due regard to the need to promote equality, tackle discrimination and promote good relations between different groups in society. At this stage in the SA process this simply means including protected equality characteristics in the SA frameworks for each of the marine plans.

# 8 What happens next?

## 8.1 Next Stages in the SA Process

Following the receipt of the consultation comments, they will be reviewed and modifications made to the scope of the SAs as necessary.

The next stage of the SA process is Stage B: Developing and refining marine plan alternatives and appraising the effects. At this stage, the MMO will develop alternative options of how to progress each of the marine plans. With regard to alternatives, Part 3 of the SEA Regulations states that an environmental report shall be prepared which shall identify, describe and evaluate the likely significant effects on the environment of implementing the plan or programme and *reasonable alternatives* taking into account the objectives and the geographical scope of the plan or programme.

The Practical Guide advises that reasonable, realistic and relevant alternatives should be considered and they should be sufficiently distinct to enable a meaningful comparison of their different effects. The overall SA process seeks to evaluate the potential significant effects of alternatives on each of the SA topics and sub-topics. It is recognised that at the strategic level there will be less detailed information available about some of the alternative options compared with the preferred draft marine plans which will contain a series of worked up policies. Therefore, a level of uncertainty will be acknowledged in the SA for all remaining marine plans. At this point in the development of the remaining marine plans, it is too soon to be able to provide detailed commentary on the likely range of options and therefore alternatives. The vision and objectives will provide further information that can be used to clarify the scope of the alternatives. The evidence and issues will inform the development of plan area visions and policy options under the high level marine objectives. Policy options will be developed to meet the plan area visions and high level marine objectives in different ways. It is anticipated that as the marine planning process proceeds, a separate technical document looking at the development of alternatives will be produced, as part of the SA process.

The next stage after alternatives is the development of draft marine plans. The SEA Regulations require that an appraisal is carried out on a draft version of the marine plans and a statutory environmental report (a SA report under the English planning system) is produced and consulted on. The SA report will set out the results of the SA process, outline why alternatives were selected or rejected, report on the appraisal of the Draft marine plans, outline mitigation and enhancement measures and include a programme for monitoring the effects of the marine plans.

The SA report is a statutory document and will be produced alongside marine plans. It will be published at the same time, thus providing respondents with appropriate information on the sustainability implications of the marine plans on which to base their representation. A Non-Technical Summary will also be prepared which complies with the requirements set out in the SEA Regulations.

## 8.2 How to Comment on this Report

If you would like to respond to this consultation, please visit <a href="http://www.connect.marinemanagement.org.uk/consultations/sascoping/">http://www.connect.marinemanagement.org.uk/consultations/sascoping/</a> and complete the consultation online. Alternatively you can download and print the consultation questionnaire from weblink and once completed, send it to:

The Marine Planning Team,
Marine Management Organisation,
Lancaster House,
Hampshire Court,
Newcastle Business Park,
Newcastle upon Tyne,
NE4 7YH.

The consultation will run for a mandatory five weeks, closing on 13<sup>th</sup> May 2016.

If you have any questions or problems responding the consultation please contact: <a href="mailto:planning@marinemanagement.org.uk">planning@marinemanagement.org.uk</a>