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Tees CCPP Project

The Tees Combined Cycle Power Plant Project Land at the Wilton International Site, Teesside

Volume 1 - Chapter 1

Regulations – 6(1)(b) and 8(1)

Applicant: Sembcorp Utilities UK

Date: November 2017

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1 INTRODUCTION

1.1 PURPOSE OF THIS REPORT

- 1.1 Sembcorp Utilities (UK) Limited ('Sembcorp') plans to construct and operate a natural gas fired combined-cycle gas turbine (CCGT) generating station with an output capacity of up to 1,700 MWe ('the Project') on land within the Wilton International site, Teesside (see *Figure 1.1*).
- This document including, its annexes, comprises the Environmental Statement (ES) for the Project and reports the findings of the Environmental Impact Assessment (EIA) that has been undertaken. In doing so, it describes the likely significant environmental effects resulting from the construction, operation and decommissioning of the Project and, where appropriate, the measures that are intended to mitigate any adverse impacts and how these measures will be secured.
- 1.3 The Project proposes an electrical generation plant with an output capacity of up to 1,700 MWe. In accordance with sections 15(1) and 15(2) and 14(1)(a) of the Planning Act 2008, it is therefore a Nationally Significant Infrastructure Project (NSIP).
- 1.4 As a NSIP, and in accordance with Section 31 of the Planning Act 2008, development consent is required to authorise development of the Project. Sembcorp is preparing an application to the Secretary of State (SoS) for Business, Energy and Industrial Strategy, for an order granting development consent.
- 1.5 In accordance with Regulation 3 of the Infrastructure Planning (Environmental Impact Assessment) Regulations 2009 (the '2009 EIA Regulations'), the SoS may not make an order, granting development consent unless he has first taken environmental information into consideration (1).

⁽¹⁾ Regulation 4 of the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (the '2017 EIA Regulations'). The context of for this ES in regard to the 2009 and 2017 EIA Regulations is discussed in Section 1.6.



1.2 THE PROJECT

1.2.1 Overview

- 1.6 The application site (henceforth the 'Project Site') is located on land at Wilton International, a major industrial complex located near Redcar in Teesside, northeast England. The station will include up to two gas turbine units, up to two steam turbine units, ancillary plant and equipment located in the main power island in the western part of the Project Site. The northern part of the site will include hybrid cooling towers and, in accordance with policy requirements for new generating infrastructure, an area of land for possible future carbon capture equipment has been set aside in the eastern part of the site.
- 1.7 The Project Site also includes land provision for connections to existing gas transmission infrastructure and connections via existing substation on the Project Site to the national grid.
- Dependent on market conditions at the time of construction, two development scenarios are envisaged: one in which the full 1,700 MWe is built (i.e. two trains of 850 MWe each); and a second scenario where one train of 850 MWe is built and up to five years after commencement of commercial operation of the first train, construction of the second train commences. To allow for these two scenarios all of the technical assessments within this ES outline their attendant assumption in a 'basis of assessment' section which allows the adoption of a reasonable worst case scenario.

1.2.2 Project Components

- 1.9 The main Project components are:
 - two gas turbine generators;
 - two waste heat recovery steam generators (HRSGs);
 - two condensing steam turbines;
 - two hybrid cooling towers;
 - two existing sub stations
 - two stacks:
 - control room and instrumentation system;
 - administration building;
 - package boilers; and
 - land set aside for future carbon capture plant.
- 1.10 The Project is likely to also include the following:
 - ancillary plant, equipment and buildings;
 - internal roads plus car and heavy goods vehicle (HGV) parking;
 - security fencing and noise control walls;
 - connection to the existing electricity grid infrastructure;

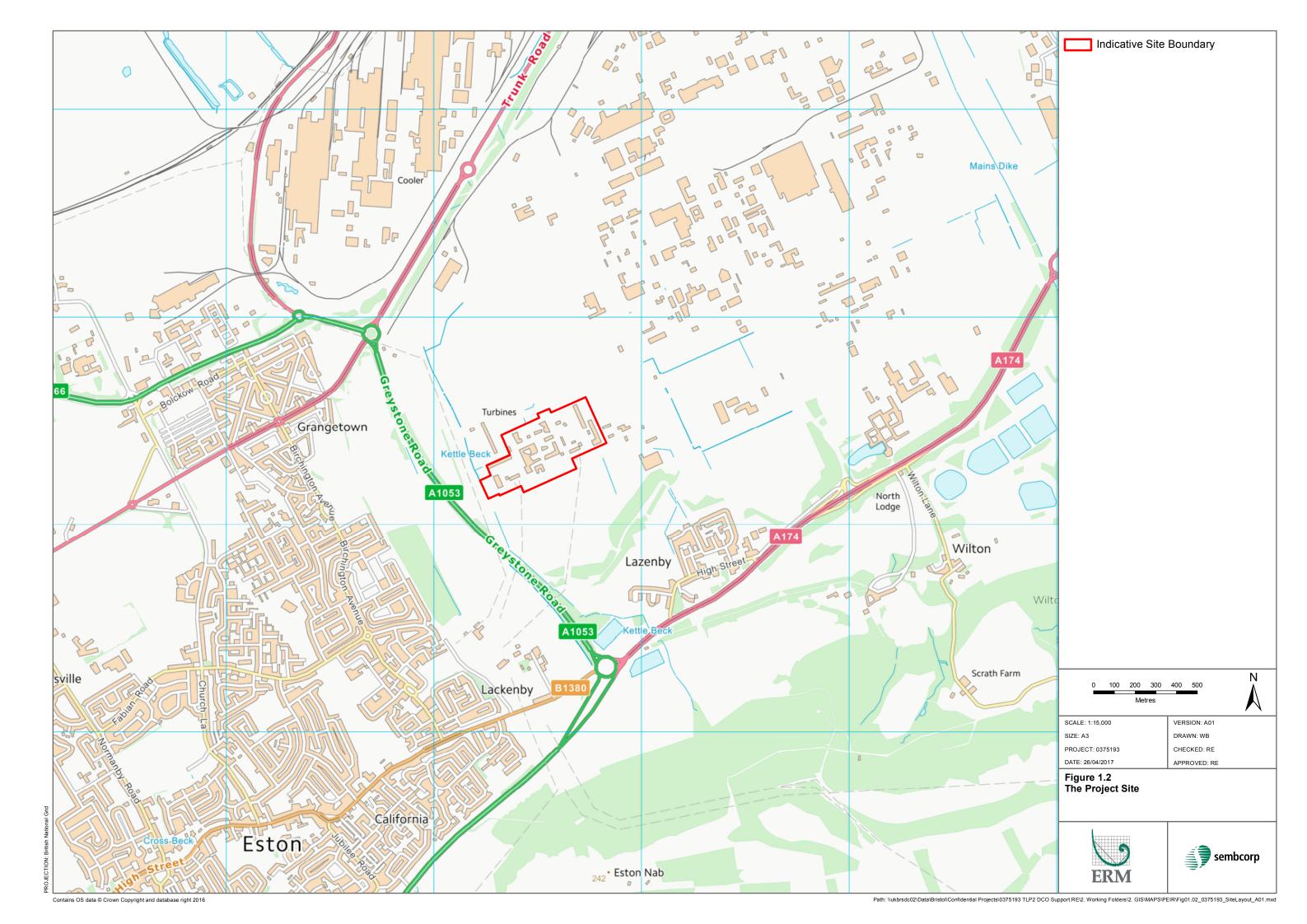
- inter-connections with the existing utilities for water, natural gas, and other ancillary fuels / materials to the plant;
- surface water management systems and foul drainage provision; and
- lighting.
- 1.11 Chapter 5 of this report provides a more detailed description of the Project.

1.2.3 The Project Site

1.12 The general location of the Project Site is shown on *Figure 1.2*. This land currently forms part of the Sembcorp Utilities (UK) landholding.

1.2.4 The 'Rochdale Envelope'

- 1.13 As noted in the Preliminary Environmental Information Report (PEIR), it is important to retain design flexibility to respond to emerging economic circumstances. A degree of flexibility will, therefore, be built into the Project design and two scenarios of development are considered. This need for flexibility does, however, introduce some complexity into the EIA process.
- 1.14 The 2009 (and 2017) EIA Regulations require an ES to provide a description of the location, design and size of the project to enable the likely significant environmental effects to be assessed and to enable the decision maker, statutory consultees and the public to make a properly informed response.
- 1.15 In summary a balance has to be sought, therefore, between defining the Project in enough detail to assess effects, while leaving enough flexibility to enable the Project to be successfully delivered under conditions which may be subject to change, such as final operational parameters. The adopted approach is to provide a reasonable worst scenario as a basis for assessing the effects of the Project.
- In practice the EIA takes account of all the reasonable variations (up to the worst case scenario from an environmental perspective) and presents the likely significant effects of these where appropriate. Such an approach is good practice, as reflected in the Planning Inspectorate's Advice note 9 'Rochdale Envelope'.



1.3 THE APPLICANT

1.17 Sembcorp provides vital utilities and services to major international process industry customers on the Wilton International site on Teesside. Part of Sembcorp Industries, a Singapore-based group providing energy, water and marine services globally, Sembcorp Utilities UK also owns much of the industrial development land on the near 2,000 acre site which is marketed to energy intensive industries worldwide.

1.4 THE APPLICANT'S TEAM

1.4.1 EIA Study Team

- 1.18 The preparation of the EIA is being led by Environmental Resources
 Management (ERM) with support from other specialist organisations. ERM is
 a member of the Institute of Environmental Management and Assessment's
 (IEMA's) EIA Quality Mark, a scheme which allows organisations to make a
 commitment to excellence in their EIA activities, and have this commitment
 independently reviewed.
- 1.19 Specific topics in this EIA are being addressed by the following shown in *Table* 1.1.

Table 1.1 EIA Project Team

Item	Organisation	Person
EIA Project Director	ERM	Kevin Murphy, BSc (Hons, PhD
EIA Project Manager	ERM	Roderick Ellison MSc BSc (hons) CEnv
		MIEMA
Legal and Policy	Dalton Warner	Technical lead and DWD Partner Geoff
Framework	Davis LLP	Bullock, BA (Hons) BPl. MRTPI
Geology and Ground	ERM	Technical lead, ERM Partner Russell
Conditions		Cullen, BSc (Hons), MSc, FGS
Water Resources and	ERM	Senior Consultant Dr Andrew Gregory,
Flood Risk Assessment		BSc (Hons), PhD
Air Quality and Climate	ERM	Principal Consultant Dr Chris Hazell-
Change		Marshall, BSc, PhD, MIAQM, MIES
		Gavin Bollan, BSc, CEnv, CSci, MIEnvSc,
		FIAQM
Noise and Vibration	ERM	Principal Consultant Michael Fraser, BSc,
		MIOA
Baseline noise surveys	GT Acoustics	Dr Geoff Taylor BEng PhD CEng
		MIMechE MIOA
Ecology and Nature	Industry Nature	Technical Director - Andy Coates MSc BSc
Conservation	Conservation	(Hons) MCIEEM
	Association (INCA)	
	and ERM	ES Author - Laura Cobden - BSc (Hons)
		MCIEEM
		Lead field ecologist Ian Bond, CEnv
		MCIEEM
Landscape and Visual	ERM	Principal Consultant Naushad Tahsildar,

Item	Organisation	Person
Impact		B'Arch, M Plan (Urban), MSc, PIEMA.
Archaeology, Material	ERM	Principal Consultant Charles Le Quesne,
Assets and Cultural		MA Hons, MCIfA
Heritage		
Traffic and Transport	Mayer Brown Ltd	Mayer Brown Director Vera Lamont, BE
		(Civil) CEng MICE MCIHT MCMI
Major Accidents and	Sembcorp	Carole Nichols BSc (Hons)
Natural Disasters		
Human Health	ERM	Roderick Ellison MSc BSc (hons) CEnv
		MIEMA
Socio-economic	ERM	Georgia Tew-Street, MA, MSc
Characteristics		

1.4.2 Other Contributors

1.20 In addition to the above, legal advice to the Project is being provided by Bond Dickinson and Project engineering is being undertaken by Sembcorp Group Project Development Team.

1.5 SUMMARY OF THE ENVIRONMENTAL IMPACT ASSESSMENT PROCESS

1.5.1 Scoping

As an initial stage in undertaking the EIA, a Scoping Report (see *Annex A*) was prepared and submitted to the Planning Inspectorate (PINs) in February 2017 (ERM, 2017). The scoping exercise that was undertaken is described in detail in *Chapter 3* of this ES. As a result of the Scoping Report being submitted, in February 2017 the Secretary of State responded with a Scoping Opinion in March 2017 (see *Annex B*) including responses from a range of consultees. As noted in *Chapter 3*, the technical scope of the EIA has derived from both the Scoping Report and the Scoping Opinion. Since the Scoping Report was prepared, whilst the development itself has remained the same, some changes have been made to the internal configuration and potential phasing of the Project as part of the iterative design process. These changes have been discussed with PINs, RCBC and the relevant statutory consultees and this ES reflects these changes in full.

1.5.2 Preliminary Environmental Information

1.22 A PEIR was prepared to accompany the consultation process as required under Regulation 10(b) of the 2009 EIA Regulations (Regulation 12(b) of the 2017 EIA Regulations). The purpose of the PEIR was to provide information and details on the Project, baseline conditions in the area of influence (including data collected to date) assessment methodologies, any identified effects and provisional mitigation. However, a key purpose of the PEIR was to provide consultees, particularly the public and local communities with relevant information on the Project to assist them in identifying the key

environmental and social issues at a stage where feedback could meaningfully influence the design process and the subsequent EIA and content of the ES.

1.6 THE NEW EIA REGULATIONS AND TRANSITIONAL PROVISIONS

- 1.23 The 2017 EIA Regulations came into force on 16th May 2017, replacing the 2009 EIA Regulations. The 2017 EIA regulations implement the Environmental Impact Assessment (EIA) Directive 2014, the purpose of which was to streamline the existing EIA regime.
- 1.24 Where the DCO application process was commenced prior to 16th May 2017, as is the case for the Project, a project may have the benefit of transitional provisions and the 2009 Regulations will continue to apply, if:
 - the applicant has submitted an ES or updated ES (as defined in the 2009 Regulations), in connection with that application; or
 - the applicant has requested that the Secretary of State (SoS)or the relevant authority adopt a scoping opinion (as defined in the 2009 Regulations) in respect of the development to which the application relates; or
 - the applicant has made a request for a screening opinion or a subsequent screening opinion; or
 - the SoS has initiated the making of a screening direction.
- 1.25 A scoping opinion was sought in relation to the Project earlier this year, and received in March 2017 (i.e. prior to 16th May 2017), which involved the submission of a scoping report; the Project therefore benefits from the transitional provisions and can undertake an assessment pursuant to the 2009 Regulations only, should it prefer to.
- 1.26 However in the Scoping Opinion the SoS did draw attention to the 2014 EIA Directive as follows:

"EU Directive 2014/52/EU

- 3.2 The SoS draws the Applicant's attention to European Union (EU) Directive 2014/52/EU (amending Directive 2011/92/EU on the assessment of the effects of certain public and private projects on the environment) which was made in April 2014.
- 3.3 Under the terms of the 2014/52/EU Directive, Member States are required to bring into force the laws, regulations and administrative provisions necessary to comply with the Directive by 16 May 2017.
- 3.4 Whilst transitional provisions will apply to such new regulations, the Applicant is advised to consider the effect of the implementation of the revised Directive in terms of the production and content of the ES."

- 1.27 In consideration of the SoS's scoping opinion, the applicant has chosen to comply with the 2009 EIA Regulations while also voluntarily addressing the additional elements introduced by the 2017 EIA Regulations.
- 1.28 It should also be noted that under the 2017 EIA Regulations, where a scoping opinion has been adopted, the ES must be "based on" that opinion. The Applicant confirms that this ES is based on the scoping opinion. Each chapter of the ES sets out how the scoping opinion has been addressed.
- 1.29 Table 1.2 at the end of this chapter sets out the required contents of an ES for both regulations and describes how and where in the ES the requirements have been addressed.

1.7 REPORT CONTENT AND STRUCTURE

- 1.30 This ES has adopted the following structure.
 - The Non-technical Summary provides a concise summary of the ES and its technical annexes to improve accessibility to a non-specialist readership.

Volume 1

- *Chapter 1* details the purpose of the EIA and Development Consent Order processes and introduces the Project proponent, the Project's background and the Project Site (and its key component).
- *Chapter 2* outlines the planning policy and context for the Project and key legislation and guidance.
- Chapter 3 describes the EIA process applied in the EIA. This chapter also details the methodology adopted to identify other significant development and plans within the Project's area of influence so that the potential for cumulative effects can be considered in the technical assessments contained within Chapters 6 to 15 of the ES.
- Chapter 4 provides a brief overview of the environmental and social baseline conditions within the area of influence for the Project. The baselines relevant to each topic are subsequently described in the following technical chapters.
- Chapter 5 provides a detailed description of how the Project will be constructed and its operational components. This section also considers key alternatives to the design assumptions adopted within this EIA and how waste arising during construction / operation will be managed.
- *Chapter 6* addresses hydrogeology, drainage, flood risk, geology and ground conditions in relation to all stages of the Project.

- *Chapter 7* addresses emissions to atmosphere of pollutants in relation to all stages of the Project (construction, operation and decommissioning).
- *Chapter 8* addresses noise and vibration in relation to all stages of the Project.
- *Chapter 9* addresses terrestrial ecology and birds in relation to all stages of the Project.
- *Chapter 10* addresses traffic and transport in relation to all stages of the Project.
- Chapter 11 addresses landscape and visual amenity in relation to all stages of the Project.
- *Chapter 12* addresses archaeology, material assets and cultural heritage in relation to all stages of the Project.
- *Chapter 13* addresses socio-economic characteristics in relation to all stages of the Project.
- *Chapter 14* addresses health and well-being in relation to all stages of the Project.
- *Chapter 15* addresses major accidents and disasters in relation to all stages of the Project.
- *Chapter 16* provides a summary of potential cumulative effects for the Project in combination with other significant development within the areas of influence from the technical assessments contained within *Chapters 6* to 15.
- Chapter 17 summarises the mitigation measures proposed to avoid, minimise, reduce and where possible offset any significant adverse effects on the environment.
- *Chapter 18* provides a summary of the likely significant effects of the Project on the environment, including the direct effects and any indirect, secondary, cumulative, short, medium and long-term, permanent and temporary, positive and negative effects of the Project.

Volume 2

- 1.31 This volume includes a number of supporting documents namely:
 - *Annex A*, Scoping Report.
 - *Annex B*, the Planning Inspectorate's Scoping Opinion.

- *Annex C*, Flood Risk Assessment which provides a qualitative analysis of flood risk for the present day and over the lifetime of the Project, taking into account climate change allowances.
- Annex D, Contaminated land documentation which provides details of the Project Site's history, its environmental setting and its potential to be affected by land contamination.
 - *Annex D.1*, Phase 1 study.
 - Annex D.2, Envirocheck Report.
 - *Annex D.3*, Site Condition Report.
 - *Annex D.4*, Framework Site Waste management Plan.
- *Annex E*, Air Quality
 - Annex E.1, Air Quality Modelling Results.
 - *Annex E.2*, Stack Height Assessment.
 - Annex E.3, Greenhouse Gas Statement.
- *Annex F*, Noise and Vibration.
 - *Annex F.1,* Noise Baseline provides details of the baseline surveys undertaken.
 - *Annex F.2*, Operational Noise provides details of the operational noise model and the assumptions and predictions used.
- *Annex G*, Ecology and Nature Conservation.
 - Annex G.1, Effects of Air Quality on Nationally and Locally Designated Sites.
 - *Annex G.2*, Preliminary Ecological Appraisal.
 - *Annex* G.3, Breeding Bird Survey.
- Annex H, a Habitat Regulations Assessment Report which examines the likely effects of the Project either alone, or in-combination with other projects and plans on European sites. The report includes Stage 1 (Screening) and seeks to answer the question "can it be concluded that no likely significant effect will occur"?
- *Annex I*, Traffic and Travel
 - Annex I.1, Transport Assessment.
 - Annex I.2, Framework Construction Traffic Management Plan.
- *Annex J*, provides the gazetteer of designated heritage assets.
- *Annex K*, provides supporting landscape and visual photomontages.
- Annex L, Construction Environmental Management Plan.

Table 1.2 EIA Requirements and where they are Addressed in this ES

Required Information 2009 EIA Regulations	Required Information 2017 EIA Regulations	How the 2017 EIA Regulations have been Addressed	Reference to where Addressed in the ES
Paragraph 17 of Schedule 4	Paragraph 1 of Schedule 4	Although setting out more detail	Chapter 5 provides a description of all
A description of the Project, including in	A description of the development, including	in terms of the topics that are	aspects of the Project.
particular:	in particular:	required to be addressed no	
	(a)a description of the location of the	material differences are	Chapter 4 describes the general location
A description of the physical characteristics of	development;	introduced above and beyond the	and setting for the Project.
the whole Project and the land-use	(b)a description of the physical characteristics	matters that are normally	
requirements during the construction and	of the whole development, including, where	addressed pursuant to the 2009	Topic <i>Chapters 6</i> to 15 also contain
operational phases;	relevant, requisite demolition works, and the	EIA Regulations and have been	relevant information under the sub-
A description of the main characteristics of the	land-use requirements during the construction	covered in this ES.	heading: Basis of Assessment including
production processes, for instance, nature and	and operational phases;		Realistic Worst Case Scenario.
quantity of the materials used;	(c)a description of the main characteristics of	In terms of demolition works, the	
An estimate, by type and quantity, of expected	the operational phase of the development (in	former CCGT facility has already	
residues and emissions (water, air and soil	particular any production process), for	been demolished and this is	
pollution, noise, vibration, light, heat, radiation,	instance, energy demand and energy used,	covered in <i>Chapter 6</i> .	
etc.) resulting from the operation of the Project.	nature and quantity of the materials and	•	
	natural resources (including water, land, soil	Energy demand and energy used	
	and biodiversity) used;	is covered in <i>Annex E.3</i> .	
	(d)an estimate, by type and quantity, of		
	expected residues and emissions (such as		
	water, air, soil and subsoil pollution, noise,		
	vibration, light, heat, radiation and quantities		
	and types of waste produced during the		
	construction and operation phases.		
Paragraph 18 of Schedule 4	Paragraph 2 of Schedule 4	Although the 2017 Regulations	Chapter 5 provides an outline of the
An outline of the main alternatives studied by	A description of the reasonable alternatives	give examples of alternatives to	main and reasonable alternatives
the applicant and an indication of the main	(for example in terms of development design,	be considered and introduce the	studied by Sembcorp and the
reasons for the applicant's choice, taking into	technology, location, size and scale) studied	caveat of "reasonable	rationales for the main elements of
account the environmental effects.	by the developer, which are relevant to the	alternatives", no material	decision-making for the chosen option.
	proposed project and its specific	differences are introduced above	
	characteristics, and an indication of the main	and beyond the matters that are	Where relevant further consideration
	reasons for selecting the chosen option,	normally addressed under the	of alternatives (e.g. for mitigation
	including a comparison of the environmental	2009 EIA Regulations and are	options) is considered for each topic in
	effects.	covered in this ES.	Chapters 6 to 15
	Paragraph 3 of Schedule 4	This is a new requirement,	Chapter 4 provides an overview of the

Required Information 2009 EIA Regulations	Required Information 2017 EIA Regulations	How the 2017 EIA Regulations	Reference to where Addressed in the
		have been Addressed	ES
	A description of the relevant aspects of the	although it should be noted that	general environmental and socio-
	current state of the environment (baseline	ESs produced under the 2009 EIA	economic setting for the Project and
	scenario) and an outline of the likely evolution	Regulations would often look at	Chapters 6 to 15 each contain a topic-
	thereof without implementation of the	future trends (e.g. traffic growth,	specific description of existing
	development as far as natural changes from	future extreme rainfall influenced	conditions.
	the baseline scenario can be assessed with	by climate change). A sub-	
	reasonable effort on the basis of the	section addressing this matter is	
	availability of environmental information and	included within each technical	
	scientific knowledge.	topic chapter (Chapters 6 to 15).	
Paragraph 19 of Schedule 4 A description of the aspects of the environment likely to be significantly affected by the Project, including, in particular, population, fauna, flora, soil, water, air, climatic factors, material assets, including the architectural and	Paragraph 4 of Schedule 4 A description of the factors specified in regulation 4(2) likely to be significantly affected by the development: population, human health, biodiversity (for example fauna and flora), land (for example land take), soil	Although setting out more detail in terms of the topics that are required to be addressed no material differences are introduced above and beyond the matters that are normally	Chapter 4 provides an overview of the general environmental and socio-economic setting for the Project and Chapters 6 to 15 each contain a topic-specific description of existing conditions.
archaeological heritage, landscape and the interrelationship between the above factors.	(for example organic matter, erosion, compaction, sealing), water (for example hydromorphological changes, quantity and quality), air, climate (for example greenhouse gas emissions, impacts relevant to adaptation), material assets, cultural heritage, including architectural and archaeological aspects, and landscape.	addressed under the 2009 EIA Regulations and are covered in this ES. In particular, climate in terms of greenhouse gas emissions is addressed in <i>Annex E.3</i> and impacts relevant to adaptation are covered in the flood risk assessment (<i>Annex C</i>) and <i>Chapter 5</i> . Health is covered in <i>Chapter 14</i> and biodiversity is covered in <i>Chapter 9</i> .	
Paragraph 20 of Schedule 4	Paragraph 5 of Schedule 4	Although setting out more detail	Chapters 6 to 15 describe and assess the
A description of the likely significant effects of	A description of the likely significant effects of	in terms of the topics that are	likely significance of effects for each
the Project on the environment, which should	the development on the environment resulting	required to be addressed, other	technical topic.
cover the direct effects and any indirect,	from, inter alia:	than items (d) and (f) no material	
secondary, cumulative, short, medium and	(a)the construction and existence of the	differences are introduced above	Cumulative effects are addressed in
long-term, permanent and temporary, positive	development, including, where relevant,	and beyond the matters that are	each of these chapters (according to
and negative effects of the Project, resulting	demolition works;	normally addressed under the	the methodology set out in <i>Chapter 3</i>)

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Required Information 2009 EIA Regulations	Required Information 2017 EIA Regulations	How the 2017 EIA Regulations have been Addressed	Reference to where Addressed in the ES
from:	(b)the use of natural resources, in particular	2009 EIA Regulations. This ES	and are be summarised along with
The existence of the Project;	land, soil, water and biodiversity, considering	covers all of the relevant aspects	indirect effects in <i>Chapter 16</i> .
 The use of natural resources; 	as far as possible the sustainable availability of	of the 2017 Regulations.	
• The emissions of pollutants, the creation of	these resources;		
nuisances and the elimination of waste,	(c)the emission of pollutants, noise, vibration,	The impact of the project on	
And the description by the applicant of the	light, heat and radiation, the creation of	climate (in terms of the nature	
forecasting methods used to assess the effects	nuisances, and the disposal and recovery of	and magnitude of greenhouse	
on the environment.	waste;	gas emissions) is addressed in	
	(d)the risks to human health, cultural heritage	Annex E.3.	
	or the environment (for example due to		
	accidents or disasters);	The vulnerability of the project to	
	(e)the cumulation of effects with other existing	climate change is addressed in	
	and/or approved projects, taking into account	Annex C (Flood Risk Assessment)	
	any existing environmental problems relating	and <i>Chapter 5</i> (Project	
	to areas of particular environmental	Description).	
	importance likely to be affected or the use of		
	natural resources;	In terms of risks to human health	
	(f) the impact of the project on climate (for	this is covered in chapter X.	
	example the nature and magnitude of		
	greenhouse gas emissions) and the	In terms of demolition works, the	
	vulnerability of the project to climate change;	former CCGT facility has already	
	(g)the technologies and the substances used.	been demolished and this is	
		covered in Chapter 6 and Annex	
	The description of the likely significant effects	D.3.	
	on the factors specified in regulation 4(2)		
	should cover the direct effects and any		
	indirect, secondary, cumulative,		
	transboundary, short-term, medium-term and		
	long-term, permanent and temporary, positive		
	and negative effects of the development. This		
	description should take into account the		
	environmental protection objectives		
	established at Union or Member State level		
	which are relevant to the project, including in		
	particular those established under		
	Council Directive 92/43/EEC and Directive		
	2009/147/EC.		

1-14

Required Information 2009 EIA Regulations	Required Information 2017 EIA Regulations	How the 2017 EIA Regulations have been Addressed	Reference to where Addressed in the ES
Paragraph 20 of Schedule 4	Paragraph 6 of Schedule 4	Although introducing a specific	The overall approach to the EIA is
And the description by the applicant of the	A description of the forecasting methods or	requirement to describe the	described in Chapter 3.
forecasting methods used to assess the effects	evidence, used to identify and assess the	evidence used, in reality an ES	
on the environment.	significant effects on the environment,	produced under the 2009 EIA	Each technical topic chapter (Chapters 6
Paragraph 23 of Schedule 4	including details of difficulties (for example	Regulations and produced in	to 15) contains a section setting out the
An indication of any difficulties (technical	technical deficiencies or lack of knowledge)	accordance with good practice	methodology, including forecasting
deficiencies or lack of know-how) encountered	encountered compiling the required	would as a matter of course set	and modelling methods and evidence
by the applicant in compiling the required	information and the main uncertainties	out the evidence base that it had	used.
information.	involved.	used. Therefore no material	
		differences are introduced above	Uncertainty and related matters and
		and beyond the matters that are	how they have been dealt with are also
		normally addressed under the	considered for each topic in <i>Chapters</i> 6
		2009 EIA Regulations and this ES	to 15 where relevant.
		complies with the requirements	
		of the 2017 Regulations on this	
		aspect.	
Paragraph 21 of Schedule 4	Paragraph 7 of Schedule 4	No material differences are	Certain items of inherent (designed-in)
A description of the measures envisaged to	A description of the measures envisaged to	introduced above and beyond the	mitigation are described in <i>Chapter 5</i> .
prevent, reduce and where possible offset any	avoid, prevent, reduce or, if possible, offset	matters that are normally	
significant adverse effects on the environment.	any identified significant adverse effects on	addressed under the 2009 EIA	Mitigation measures specific to
	the environment and, where appropriate, of	Regulations. Although there is	particular topics are described in
	any proposed monitoring arrangements (for	an emphasis on any proposed	Chapters 6 to 15.
	example the preparation of a post-project	monitoring arrangements to be	
	analysis). That description should explain the	specified, monitoring has	Mitigation measures are also
	extent, to which significant adverse effects on	traditionally formed a	summarised in the form of a 'register'
	the environment are avoided, prevented,	cornerstone of mitigation and	in <i>Chapter 17</i> and their means of
	reduced or offset, and should cover both the	environmental management in	delivery are outlined in a Draft
	construction and operational phases.	EIA and is picked up in this ES in	Construction Environmental
		the relevant chapters, for	Management Plan (CEMP) (Annex L)
		example on noise where	and Framework Construction Traffic
		monitoring requirements are	Management Plan (CTMP) (Annex I.2),
		proposed in the DCO to ensure	as well as in specific DCO
		the mitigation is effective and	Requirements.
		noise limits can be achieved.	
	Paragraph 8 of Schedule 4	This is a new requirement	Chapter 15 provides an assessment of
	A description of the expected significant	(although some ESs produced	the potential effects arising from
	adverse effects of the development on the	under the 2009 EIA Regulations	accident scenarios and the control

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Required Information 2009 EIA Regulations	Required Information 2017 EIA Regulations	How the 2017 EIA Regulations have been Addressed	Reference to where Addressed in the ES
	environment deriving from the vulnerability of the development to risks of major accidents	may typically have addressed such matters as major oil spills).	measures to address these.
	and/or disasters which are relevant to the	such matters as major on spins).	Chapter 6 provides an assessment of
	project concerned. Relevant information	The ES includes a stand-alone	potential spill and leak scenarios that
	available and obtained through risk	chapter covering this topic.	could adversely affect the soil and
	assessments pursuant to EU legislation such		water environments and how these
	as Directive 2012/18/EU of the European		will be mitigated.
	Parliament and of the Council or Council		
	Directive 2009/71/Euratom or UK		
	environmental assessments may be used for		
	this purpose provided that the requirements		
	of this Directive are met. Where appropriate,		
	this description should include measures		
	envisaged to prevent or mitigate the		
	significant adverse effects of such events on		
	the environment and details of the		
	preparedness for and proposed response to		
	such emergencies.		
Paragraph 22 of Schedule 4	Paragraph 9 of Schedule 4		The ES is prefaced by a <i>Non-technical</i>
A non-technical summary of the information	A non-technical summary of the information		Summary.
provided under paragraphs 1 to 5 of this Part.	provided under paragraphs 1 to 8.		
	Paragraph 10 of Schedule 4	Although nominally a new	Key sources of information are
	A reference list detailing the sources used for	requirement all ESs produced	described in a specific sub-section of
	the descriptions and assessments included in	under the 2009 EIA Regulations	each of the technical topic <i>Chapters 6</i> to
	the environmental statement.	and in accordance with good	15. In addition other sources of
		practice would have included this information.	information, including cited literature sources and links to websites are
			provided as footnotes throughout the ES.