



Hearing Transcript

Project:	Connah's Quay Low Carbon Power Project
Hearing:	Recording of Issue Specific Hearing 4 (ISH4) - Part 2
Date:	18 March 2026

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1

00:00:04.380 --> 00:00:06.340

Okay, thank you. Uh, welcome back.

2

00:00:06.420 --> 00:00:09.280

Uh, re- recommence the meeting. Uh, hearing, sorry.

3

00:00:09.320 --> 00:00:13.280

Gosh, get my head right. Um, I'm now going to move on to item

4

00:00:13.320 --> 00:00:16.300

four on the agenda, which is the item specifically related to climate

5

00:00:16.360 --> 00:00:20.000

change. And we're now going to move to the applicant to provide an update on their

6

00:00:20.010 --> 00:00:23.720

assessment shortly of the potential for the proposed development to contribute

7

00:00:23.760 --> 00:00:26.820

towards and mitigate for the effects of climate change.

8

00:00:26.860 --> 00:00:30.500

I'll then come to the other interested parties online and in the room.

9

00:00:30.540 --> 00:00:33.780

Before I do that, I'll try and remember and ask the applicant to introduce their

10

00:00:33.840 --> 00:00:37.820

experts this time, if that's okay, please.

11

00:00:41.420 --> 00:00:44.320

James Straughan for the applicant.

12

00:00:44.380 --> 00:00:48.360

And, sir, to my right, Mr. Roger Bramwood

13

00:00:48.800 --> 00:00:52.740
from Uniper, and to his right, Mr. Ben Murray

14

00:00:53.820 --> 00:00:54.740
from AECOM.

15

00:00:56.380 --> 00:00:57.300
Thank you.

16

00:00:59.220 --> 00:01:02.220
I'm conscious I have Dr. Boswell online already identified.

17

00:01:02.240 --> 00:01:05.280
Is there any other party that I have missed who would like to speak
on the subject

18

00:01:05.300 --> 00:01:08.580
of climate change before we commence this session?

19

00:01:10.220 --> 00:01:12.130
Okay, thank you.

20

00:01:12.280 --> 00:01:16.190
Um...

21

00:01:20.460 --> 00:01:24.080
So item four point one, what I was looking here is

22

00:01:24.140 --> 00:01:26.370
the... I'll split it into two parts if you like.

23

00:01:26.400 --> 00:01:29.520
The contribution that the proposed development potentially could
have

24

00:01:29.580 --> 00:01:33.290
towards, the effects of climate change, including upstream and

25

00:01:33.380 --> 00:01:36.240
downstream emissions that result from its operation.

26

00:01:36.280 --> 00:01:38.220

Principally, its operation is what I'm concerned about rather than its

27

00:01:38.260 --> 00:01:41.200

construction. I think you've gone into a lot of detail there to explain

28

00:01:41.520 --> 00:01:44.600

that. And then we'll move on later to how potentially

29

00:01:44.700 --> 00:01:47.370

the development might benefit climate change.

30

00:01:48.800 --> 00:01:52.450

So following, the latest

31

00:01:52.500 --> 00:01:55.160

submissions that I've received and published on the Planning Inspectorate website

32

00:01:55.200 --> 00:01:58.580

in the examination library, please could you, the applicant, advise initially on

33

00:01:58.620 --> 00:02:02.260

your latest position with regards to the potential climate change

34

00:02:02.340 --> 00:02:05.440

effects from the operation of the, proposed

35

00:02:05.520 --> 00:02:09.259

development?

36

00:02:09.400 --> 00:02:09.961

Ben Murray

37

00:02:11.960 --> 00:02:14.380

for the applicant. Yes, sir. Uh,

38

00:02:15.540 --> 00:02:19.269
as you say, the overall, carbon emissions

39
00:02:19.380 --> 00:02:21.880
are dominated by the operational phase.

40
00:02:21.989 --> 00:02:25.920
And our assessment, as laid out in chapter twenty of

41
00:02:25.960 --> 00:02:29.900
the environmental statement, that phase accounts for forty-two

42
00:02:29.980 --> 00:02:33.740
million, six hundred thousand tons of carbon dioxide

43
00:02:33.860 --> 00:02:37.600
over its operating life or, or, rather carbon dioxide

44
00:02:37.680 --> 00:02:39.940
equivalent, I should, I should note.

45
00:02:40.020 --> 00:02:40.160
Um,

46
00:02:41.920 --> 00:02:45.820
the, the construction phase and the decommissioning

47
00:02:45.880 --> 00:02:49.750
phase, we have estimated for the construction phase specifically,
around four

48
00:02:49.800 --> 00:02:52.140
hundred and seventy thousand tons.

49
00:02:52.210 --> 00:02:56.180
Uh, that's based on the embodied emissions for the earth materials,

50
00:02:56.540 --> 00:02:59.100
and the transport to site, plus construction

51
00:02:59.160 --> 00:03:03.100

activities. In the decommissioning phase, it's more uncertain given that

52

00:03:03.120 --> 00:03:07.040

that is going to happen many years into the future, post a date when the

53

00:03:07.100 --> 00:03:10.980

UK is expected to have achieved its net zero targets.

54

00:03:11.020 --> 00:03:14.560

In the absence of any detailed, information

55

00:03:14.620 --> 00:03:18.590

around decommission activities, we've taken a, a, a worst case view and

56

00:03:18.620 --> 00:03:22.020

have applied the same emissions as in the construction

57

00:03:22.080 --> 00:03:24.780

phase. That is a, a very much a worst case

58

00:03:25.040 --> 00:03:29.020

scenario. In the operational phase, overwhelmingly,

59

00:03:29.060 --> 00:03:32.800

the emissions do come from the upstream supply of natural

60

00:03:32.920 --> 00:03:35.800

gas. Um, it is the case that

61

00:03:36.020 --> 00:03:39.740

in, projects of this nature where we have

62

00:03:39.800 --> 00:03:42.020

carbon capture attached to the flue

63

00:03:42.080 --> 00:03:46.020

gases, yeah,

64

00:03:46.120 --> 00:03:49.970
the upstream emissions do become the predominant source of emissions.

65
00:03:50.020 --> 00:03:53.660
This is because it is a low carbon energy

66
00:03:53.780 --> 00:03:57.060
source relative to an unabated gasified power station.

67
00:03:57.070 --> 00:04:00.760
An existing unabated gasified power station would have around

68
00:04:00.800 --> 00:04:03.980
sixteen percent of its emissions happening in that upstream

69
00:04:04.020 --> 00:04:07.140
phase. If you apply best available

70
00:04:07.260 --> 00:04:09.960
te-te-technique of, of carbon capture, that

71
00:04:10.100 --> 00:04:13.960
upstream, share of the overall

72
00:04:14.060 --> 00:04:17.101
operational emissions becomes around two-thirds of the total.

73
00:04:17.140 --> 00:04:20.760
So yes, it does predominate. Uh, in

74
00:04:20.800 --> 00:04:23.900
addition to that, we also have additional emissions from

75
00:04:24.840 --> 00:04:25.380
what we call

76
00:04:26.360 --> 00:04:30.300
a TNS unavailability in the event that the transport

77
00:04:30.360 --> 00:04:33.800

and storage network, the downstream part of the system,

78

00:04:34.940 --> 00:04:38.160

is unavailable in an unplanned manner.

79

00:04:38.200 --> 00:04:41.500

We have to, to, factor that in, and we've taken a

80

00:04:41.560 --> 00:04:45.260

conservative view that the downstream TNS network will

81

00:04:45.300 --> 00:04:48.060

operate with an availability of ninety-five percent.

82

00:04:48.100 --> 00:04:52.060

So we add on an additional five percent of

83

00:04:52.120 --> 00:04:55.640

the emissions that would be captured.

84

00:04:55.720 --> 00:04:58.980

Again, we think that is a very cautious basis.

85

00:04:59.080 --> 00:05:02.880

Uh, unavailability in the TNS, network falls into

86

00:05:03.320 --> 00:05:06.760

planned outages and unplanned outages.

87

00:05:06.860 --> 00:05:09.930

Um, in the event of a planned outage, that would be,

88

00:05:11.340 --> 00:05:15.100

scheduled to coincide with maintenance at the plant and the

89

00:05:15.200 --> 00:05:17.760

other emitters, so we don't think that's gonna have

90

00:05:18.940 --> 00:05:22.740

any impact on emissions. However, unplanned outages, as the name

91

00:05:22.760 --> 00:05:26.460

su-suggests, can happen any time because of a

92

00:05:26.500 --> 00:05:26.860

failure.

93

00:05:27.740 --> 00:05:31.600

Um, so that's where that additional emissions come from, and that falls into the

94

00:05:31.660 --> 00:05:35.620

downstream category. Yeah. In your question you talk about

95

00:05:35.760 --> 00:05:38.660

the, the upstream and, downstream effects,

96

00:05:40.080 --> 00:05:43.920

possibly with thought to the Finch case in the,

97

00:05:44.070 --> 00:05:47.540

Supreme Court. Yes, we have taken a whole life

98

00:05:47.740 --> 00:05:51.200

view and a whole value chain view of the

99

00:05:51.240 --> 00:05:53.140

operations of this,

100

00:05:53.960 --> 00:05:57.940

installation. As we've said, the upstream phase is dominated

101

00:05:58.080 --> 00:06:01.640

by emissions that happen in the natural gas su-supply

102

00:06:01.700 --> 00:06:03.500

chain. You've got direct emissions on

103

00:06:03.600 --> 00:06:07.340

site-That is the unabated

104

00:06:07.560 --> 00:06:10.220
share of the combustion emissions that isn't captured

105
00:06:11.280 --> 00:06:14.660
by the capture plant. And then you've got the impact of

106
00:06:15.280 --> 00:06:18.860
that TNS, the unavailability in the downstream phase.

107
00:06:18.900 --> 00:06:22.660
So yes, we feel that we have captured the entire, value

108
00:06:22.720 --> 00:06:25.260
chain as well as the whole life over the various

109
00:06:25.280 --> 00:06:27.280
phases.

110
00:06:28.220 --> 00:06:32.120
Thank you. Sorry, can you just reiterate to me again the downstream

111
00:06:32.420 --> 00:06:34.940
component and how you have assessed that?

112
00:06:35.000 --> 00:06:37.320
I, I appreciate I've had a look at your document, but I'm just
trying to make sure

113
00:06:37.360 --> 00:06:37.560
that-

114
00:06:37.570 --> 00:06:37.570
Yeah.

115
00:06:37.570 --> 00:06:39.080
-I haven't missed something what you just said there.

116
00:06:39.120 --> 00:06:41.460
So appreciate your upstream, the, um

117
00:06:42.700 --> 00:06:45.600

sorry. Bear with me. Um, upstream

118

00:06:47.500 --> 00:06:51.220

abstraction of the gas, delivery of the gas to site, any losses and leakages there.

119

00:06:51.280 --> 00:06:55.140

Right at your site, your abated plant on your-- in your proposal for how you've

120

00:06:55.160 --> 00:06:58.130

dealt with it being potentially unabated due to outages and what have you.

121

00:06:58.680 --> 00:07:02.200

What about how you've assessed the downstream component of

122

00:07:02.260 --> 00:07:06.100

how, I take that electricity and use it in an inefficient way

123

00:07:06.140 --> 00:07:06.280

to

124

00:07:07.500 --> 00:07:08.710

put on a patio heater or something like that?

125

00:07:08.710 --> 00:07:11.100

Okay. So the user emissions in th-

126

00:07:11.119 --> 00:07:11.280

Yeah.

127

00:07:11.290 --> 00:07:14.710

-in this case, the, the end use of the electricity is dealt

128

00:07:14.740 --> 00:07:18.480

with already within our a-assessment because the emissions from

129

00:07:18.540 --> 00:07:21.760

that are captured by the combustion of the fuel.

130

00:07:21.800 --> 00:07:22.160
Okay.

131
00:07:22.220 --> 00:07:25.820
So if, yeah, if you are an end user in a household or a

132
00:07:25.840 --> 00:07:29.280
factory, you would factor in, in

133
00:07:29.340 --> 00:07:31.700
your,

134
00:07:34.240 --> 00:07:37.220
reporting, you would factor in how much power you

135
00:07:37.260 --> 00:07:39.160
are importing from the grid. Um,

136
00:07:40.320 --> 00:07:43.640
now the power station is already

137
00:07:44.320 --> 00:07:48.080
reporting those same emissions for, for emissions that, that go up
its stack.

138
00:07:48.140 --> 00:07:51.810
This is why when we talk about carbon accounting, we break emissions
down into

139
00:07:51.920 --> 00:07:54.960
scopes. We have scope one, scope two, and scope

140
00:07:55.080 --> 00:07:58.750
three. Um, and these are viewed from the

141
00:07:58.800 --> 00:08:02.600
perspective on-- of an emitter. So if you are the

142
00:08:02.640 --> 00:08:06.600
power station, i.e. the applicant in this case, your scope

143

00:08:06.720 --> 00:08:10.260
one emissions, that-- those are the ones over which you have got direct

144
00:08:10.300 --> 00:08:13.480
control, and these are the ones that go up your stack.

145
00:08:13.540 --> 00:08:14.580
Yes.

146
00:08:14.640 --> 00:08:17.480
Your scope, three emissions

147
00:08:18.380 --> 00:08:22.240
would include things that happen in the upstream, natural

148
00:08:22.300 --> 00:08:26.200
gas sup-- supply chain, and also that result from

149
00:08:26.400 --> 00:08:29.140
unavailability of the downstream transport and storage

150
00:08:29.180 --> 00:08:33.160
network. Okay. Because these are things that they might

151
00:08:33.220 --> 00:08:36.920
end up happening at your site, but they are the result of a

152
00:08:37.020 --> 00:08:39.461
failure of the downstream network.

153
00:08:41.220 --> 00:08:43.140
Now, if you are the user of the

154
00:08:43.220 --> 00:08:46.740
electricity, in, in order to

155
00:08:46.820 --> 00:08:50.380
avoid double counting, say you're a factory that consumes a lot of

156
00:08:50.420 --> 00:08:51.100

electricity,

157

00:08:52.320 --> 00:08:54.940

the emissions from electricity are put un-under your scope

158

00:08:55.020 --> 00:08:57.800

two. And scope

159

00:08:57.860 --> 00:09:01.420

two, covers emissions from the consumption of

160

00:09:01.620 --> 00:09:05.200

imported electricity or possibly heating or cooling or other imported

161

00:09:05.260 --> 00:09:07.900

services. And again, scope three is

162

00:09:08.740 --> 00:09:12.500

things elsewhere in the value chain over which you do not have direct

163

00:09:12.540 --> 00:09:14.000

control or influence.

164

00:09:14.060 --> 00:09:14.590

Okay.

165

00:09:15.420 --> 00:09:16.950

Thank you. Very helpful. Um,

166

00:09:28.220 --> 00:09:32.000

I'm going to probably move, to other parties in the room first, but I just want

167

00:09:32.080 --> 00:09:32.450

to,

168

00:09:34.320 --> 00:09:37.660

clarify that thank you for the clarity that you've given me there.

169

00:09:37.680 --> 00:09:41.080

And the, and the bit that I'd like to concentrate, as we just said, is

170

00:09:41.360 --> 00:09:44.740

operational upstream emissions at the moment.

171

00:09:44.800 --> 00:09:48.370

Um, I appreciate what you've told me about the availability of the transport and

172

00:09:48.440 --> 00:09:51.080

storage network and the approach that you've taken there

173

00:09:51.160 --> 00:09:52.560

to,

174

00:09:54.220 --> 00:09:57.080

look at potential outages in that supply chain.

175

00:09:57.120 --> 00:10:00.680

And also, I think we talked, quite a lot in the previous

176

00:10:00.800 --> 00:10:01.740

hearings about

177

00:10:04.060 --> 00:10:07.980

potential downtime time at-- and outage times at the site for maintenance and,

178

00:10:08.000 --> 00:10:10.860

and commissioning, when potentially the, the, the TNS,

179

00:10:11.980 --> 00:10:14.960

supply chain might not be even available at that time. So thank you.

180

00:10:14.980 --> 00:10:18.080

I think we've covered all that off, and I understand all that, hopefully.

181

00:10:18.140 --> 00:10:21.860

Um, so I just want to really focus in on the upstream emission

components of

182

00:10:21.920 --> 00:10:25.530

this. Uh, I'm probably gonna come to,

183

00:10:25.759 --> 00:10:28.760

Dr. Boswell next, if that's okay, for some of the points he's raised.

184

00:10:28.780 --> 00:10:32.640

But before I do that, firstly, thank you for the submissions that,

185

00:10:32.680 --> 00:10:34.780

that all parties have made to this examination.

186

00:10:34.800 --> 00:10:38.560

It's been very informative, read, helpful to me .

187

00:10:38.620 --> 00:10:41.980

I apologize, particularly, to the applicant and also to Dr.

188

00:10:42.000 --> 00:10:45.520

Boswell that you've all said that you'd like to request to present some information

189

00:10:45.580 --> 00:10:49.340

visually at these hearings. Um, I'd rather they were submitted as evidence to the

190

00:10:49.350 --> 00:10:52.880

examination library for all to see, because different people, as I've already

191

00:10:52.900 --> 00:10:55.880

explained earlier, in different viewing platforms and different access arrangements

192

00:10:56.060 --> 00:10:57.760

might not be able to view what you're presenting.

193

00:10:57.800 --> 00:11:01.279

So my-- for fairness of all, I would prefer you to submit that, and

we'll

194

00:11:01.360 --> 00:11:05.060

include that on the examination library, even if it's an e-extract of something

195

00:11:05.080 --> 00:11:07.880

that you've already produced, if you'd like to draw attention to that.

196

00:11:07.900 --> 00:11:11.620

But I wanted to be consistent because we have turned down other parties, and I

197

00:11:11.640 --> 00:11:12.440

want to make sure that we

198

00:11:13.340 --> 00:11:14.070

are fair to everybody.

199

00:11:15.220 --> 00:11:18.380

Um, so please feel free to submit any information like that you might want to

200

00:11:18.400 --> 00:11:20.000

showcase to me at your next deadline.

201

00:11:20.580 --> 00:11:24.280

Um, before I go to you, Dr.

202

00:11:24.300 --> 00:11:27.280

Boswell, assuming you wish to speak on this topic.

203

00:11:27.300 --> 00:11:29.980

Principally, from what I've gathered from the evidence that you've submitted to me

204

00:11:30.000 --> 00:11:32.680

and all the information that, I've read, is

205

00:11:33.920 --> 00:11:37.140

there are three activities that you have raised some concern about

relating to the

206

00:11:37.160 --> 00:11:40.620

emissions upstream that could potentially contribute to climate change and you

207

00:11:40.660 --> 00:11:43.490

believe may have been us-underestimated.

208

00:11:43.500 --> 00:11:47.130

And these are the upstream emissions, and my

209

00:11:47.140 --> 00:11:49.700

understanding is that the climate emergency sites law have challenged the

210

00:11:49.740 --> 00:11:53.600

presumption that future national, natural, I can't

211

00:11:53.680 --> 00:11:57.000

say the word, natural gas provision will be predominantly

212

00:11:57.500 --> 00:12:01.300

by pipeline from Norway, but could also be by,

213

00:12:01.500 --> 00:12:05.472

liquefied na-natural gas supply from other sources around the world.My

214

00:12:05.492 --> 00:12:08.322

second, understanding is-- or maybe we should take these one at a time.

215

00:12:08.332 --> 00:12:11.072

But, but I-- probably let's do one at a time 'cause that'd be easier, I think, for

216

00:12:11.132 --> 00:12:14.732

going through the, the topic. I also understand you wanna discuss the

217

00:12:14.752 --> 00:12:18.412

potential for, underestimation of methane

218

00:12:18.472 --> 00:12:22.452

leakage in the short term, and then finally, the efficiency of

219

00:12:22.472 --> 00:12:23.972

the actual carbon capture itself.

220

00:12:23.982 --> 00:12:27.322

So, like I say, those are the three things I've picked out from the evidence,

221

00:12:27.692 --> 00:12:30.222

you've supplied to me. So feel free to, uh...

222

00:12:30.232 --> 00:12:33.512

Would you like to now e-elaborate on any of those points or provide any more

223

00:12:33.572 --> 00:12:35.972

detail over and above what I've just said?

224

00:12:36.012 --> 00:12:39.172

So sl-let's take the first point, upstream emissions and where you

225

00:12:39.212 --> 00:12:42.812

believe, the liquified natural gas may, arrive

226

00:12:42.852 --> 00:12:43.812

from.

227

00:12:45.192 --> 00:12:47.752

Uh, good, good, good morning, sir. Yes. Um, Dr.

228

00:12:47.772 --> 00:12:51.182

Andrew Boswell, Climate Emergency Science and

229

00:12:51.292 --> 00:12:55.032

Law. Um, yeah, just to clarify

230

00:12:55.332 --> 00:12:58.892

first of all that the,

231

00:13:00.612 --> 00:13:04.272

the first two of the points you've just mentioned, the

232

00:13:04.292 --> 00:13:08.012

upstream methane emissions and the WTT,

233

00:13:08.872 --> 00:13:12.692

the well to tank factor, and the methane

234

00:13:12.792 --> 00:13:16.552

climate metric or short-term methane impacts,

235

00:13:16.592 --> 00:13:20.352

those are upstream effects. But of course, the assumed

236

00:13:20.432 --> 00:13:23.652

CO2 capture rate is a scope

237

00:13:23.752 --> 00:13:26.992

one issue, a-and not

238

00:13:27.052 --> 00:13:29.712

upstream. So just to sort of make that distinction.

239

00:13:29.732 --> 00:13:32.312

But I think for the moment you want to home in

240

00:13:33.172 --> 00:13:37.032

on the upstream methane emissions and the

241

00:13:37.212 --> 00:13:39.932

WTT factor, um-

242

00:13:39.942 --> 00:13:42.592

Uh, well, like, like I said, the-- what, what I gathered from reading the evidence

243

00:13:42.612 --> 00:13:45.272

you've submitted to me, sorry to interrupt you there, but is I, I

think there are

244

00:13:45.332 --> 00:13:48.902

three things that you have highlighted to me that are potential either concerns or

245

00:13:48.952 --> 00:13:52.532

underestimating-- underestimations that you believe the client, the applicant

246

00:13:52.712 --> 00:13:56.692

may have made. And, the first one of those

247

00:13:56.732 --> 00:14:00.572

was that the assumption about where the natural gas will come

248

00:14:00.612 --> 00:14:03.072

from and the carbon emissions relating to that.

249

00:14:03.092 --> 00:14:06.972

The second one around potential for shorter scale methane leakages,

250

00:14:06.992 --> 00:14:08.192

which we'll come to as a separate item.

251

00:14:08.232 --> 00:14:10.512

We've-- I think it would help me if I can understand it in those three.

252

00:14:10.552 --> 00:14:12.592

If there's something I've missed, this is where I, I think it'd be useful to say-

253

00:14:12.632 --> 00:14:12.642

Mm-hmm

254

00:14:12.642 --> 00:14:16.112

... 'No, there's another thing as well.' And then finally, the efficiency of the

255

00:14:16.152 --> 00:14:17.692

carbon capture process itself.

256

00:14:17.702 --> 00:14:17.702

Mm-hmm.

257

00:14:17.752 --> 00:14:19.632

So let, let-- if we could start with

258

00:14:20.832 --> 00:14:24.012

what very simply my point of view is where, where does the natural gas come from

259

00:14:24.052 --> 00:14:27.812

in the future may have different upstream carbon

260

00:14:27.892 --> 00:14:31.372

dioxide emissions, and how you think that might relate.

261

00:14:31.382 --> 00:14:33.552

Would, would, would that be okay? Or is there another item that you think I may

262

00:14:33.592 --> 00:14:35.272

have missed?

263

00:14:35.372 --> 00:14:39.162

Um, yeah. Uh, yeah, Andrew Boswell, Climate Emergency

264

00:14:39.312 --> 00:14:42.352

Science and Law. N-no, those are the three main

265

00:14:42.412 --> 00:14:46.272

factors, sir. Uh, I was just sort of clarifying their,

266

00:14:46.292 --> 00:14:49.152

their different scopes, at that point.

267

00:14:49.192 --> 00:14:49.442

Oh, thank you.

268

00:14:49.512 --> 00:14:52.752

Um, so homing in on, on your question,

269

00:14:53.332 --> 00:14:54.152
on the,

270

00:14:55.412 --> 00:14:59.252
the upstream, emission factors, so the

271

00:14:59.292 --> 00:15:03.222
upstream, methane emissions and the-- how the emission factors

272

00:15:03.252 --> 00:15:07.152
are calculated. Um, the upstream emissions

273

00:15:07.232 --> 00:15:09.392
depend upon the supply

274

00:15:10.272 --> 00:15:14.212
source and the supply chain,

275

00:15:14.312 --> 00:15:17.852
and the emission intensities of both CO2 and

276

00:15:17.932 --> 00:15:21.512
methane. There's both CO2 and methane in the upstream

277

00:15:21.552 --> 00:15:24.812
emissions from different points in the supply chain.

278

00:15:24.832 --> 00:15:26.972
The, the emission intensities

279

00:15:27.832 --> 00:15:31.072
of the supply source and along the supply chain.

280

00:15:31.112 --> 00:15:34.632
So those are basically the sort of physical things we are

281

00:15:34.712 --> 00:15:36.212
looking at here.

282

00:15:37.212 --> 00:15:37.552
Um,

283
00:15:38.632 --> 00:15:42.552
where you were drilling in was really on the supply chain

284
00:15:42.572 --> 00:15:46.352
and the source of the gas t-into the UK natural

285
00:15:46.432 --> 00:15:48.172
gas supply.

286
00:15:48.192 --> 00:15:48.202
Mm-hmm.

287
00:15:48.312 --> 00:15:51.932
And w-what I, have

288
00:15:52.012 --> 00:15:55.932
done in my latest submission, Rep

289
00:15:56.032 --> 00:15:58.732
3085,

290
00:15:59.632 --> 00:16:01.972
is that I provided

291
00:16:03.252 --> 00:16:06.882
e-an evidence base based on the latest information from

292
00:16:07.452 --> 00:16:10.712
go-government, central government bodies like NESO,

293
00:16:11.892 --> 00:16:12.582
and,

294
00:16:13.932 --> 00:16:17.172
Natural Gas. Not, not a government body obviously, but, like, you

295
00:16:17.241 --> 00:16:20.992
know, the company operating in the

296

00:16:21.132 --> 00:16:24.792
area. Um, which all the evidence

297

00:16:24.852 --> 00:16:27.812
is pointing to,

298

00:16:29.392 --> 00:16:33.382
more reliance on imported gas in the future.

299

00:16:33.452 --> 00:16:37.412
And within that, larger proportions

300

00:16:37.472 --> 00:16:41.032
of LNG coming through the system.

301

00:16:41.092 --> 00:16:44.872
Now, so I don't sort of waste time, with stuff

302

00:16:44.932 --> 00:16:48.792
you, you know, we've, we've got in that rep, so I can delve into
that or I can

303

00:16:48.832 --> 00:16:51.792
just sort of say that's where I'm pointing to-

304

00:16:51.802 --> 00:16:51.822
I, I-

305

00:16:51.822 --> 00:16:53.772
... depending as you wish, sir.

306

00:16:53.812 --> 00:16:55.772
I, I... If I could just stop you. I, I, I-- thank you.

307

00:16:55.792 --> 00:16:59.072
I've read, read that evidence and interestingly seen other
supporting evidence-

308

00:16:59.412 --> 00:16:59.442
Mm-hmm

309

00:16:59.442 --> 00:17:02.392

... not least on the news today. But, you know, there is this-

310

00:17:02.412 --> 00:17:02.472

Mm-hmm

311

00:17:02.482 --> 00:17:06.192

... uncertainty about where future gas supply will come

312

00:17:06.252 --> 00:17:06.532

from.

313

00:17:06.542 --> 00:17:06.542

Mm.

314

00:17:06.552 --> 00:17:08.232

And I completely get-

315

00:17:08.312 --> 00:17:08.322

Mm

316

00:17:08.322 --> 00:17:08.532

... that

317

00:17:09.972 --> 00:17:13.252

where... L-let's take the fact...

318

00:17:13.272 --> 00:17:16.032

Well, now, okay, let me try and understand it if I can. Tell me if I'm wrong.

319

00:17:16.252 --> 00:17:19.873

How that gas is extracted, processed and delivered

320

00:17:20.613 --> 00:17:24.333

has the potential for different carbon dioxide and

321

00:17:24.373 --> 00:17:28.262

methane emissions, whether it comes from a pipe from Norway or

322

00:17:28.272 --> 00:17:31.692

whether it comes on a big tanker from Qatar, for instance.

323

00:17:31.712 --> 00:17:33.742

So I un-I understand what you're saying, I think.

324

00:17:33.912 --> 00:17:33.922

Mm.

325

00:17:33.932 --> 00:17:35.742

Well, I-- that's why I hope I think I understand.

326

00:17:36.192 --> 00:17:40.072

That depending on how the gas arrives, it has a different level

327

00:17:40.132 --> 00:17:43.152

of CO... Well, let's just call it carbon dioxide and methane outputs for the

328

00:17:43.212 --> 00:17:45.692

minute. And therefore-

329

00:17:45.712 --> 00:17:45.731

Mm

330

00:17:45.752 --> 00:17:48.712

... there is the potential for underestimation

331

00:17:48.832 --> 00:17:52.632

of, how much upstream

332

00:17:52.692 --> 00:17:55.572

CO2 has been emitted by the delivery of that product.

333

00:17:55.612 --> 00:17:57.832

What, what I'm interested in is,

334

00:17:59.432 --> 00:18:01.792

and this is crystal ball gazing and I think I asked Mr.

335

00:18:01.832 --> 00:18:04.902

Brownwood, sorry, a, a similar question in the future about how, how do you think

336

00:18:04.952 --> 00:18:06.082

the electricity is gonna work in the future?

337

00:18:06.092 --> 00:18:10.040

But similarly—I don't think anyone can probably put their finger on how the

338

00:18:10.060 --> 00:18:13.000

gas will arrive in the future, 'cause that will depend on circumstances and

339

00:18:13.120 --> 00:18:14.460

markets.

340

00:18:14.480 --> 00:18:15.220

Mm-hmm.

341

00:18:15.260 --> 00:18:18.880

But what I'm interested in, I think, is how is this

342

00:18:19.060 --> 00:18:22.980

different for Connors Quay than any other gas consumer in the

343

00:18:23.040 --> 00:18:26.760

country? I, I acknowledge that they all have different emission rates,

344

00:18:27.380 --> 00:18:31.050

but will-- I guess what, I'm probably answering my own sort of question in a way,

345

00:18:31.080 --> 00:18:34.640

is i-i-- any other gas-fired power station will be having that same level of

346

00:18:34.680 --> 00:18:37.960

upstream emission or any other gas consumer.

347

00:18:37.980 --> 00:18:41.160

I guess where you would draw the comparison is if you drew it to a

348

00:18:41.180 --> 00:18:44.880

different power production source, like solar or nuclear for

349

00:18:44.960 --> 00:18:47.430

instance. You'd say, "Your

350

00:18:48.400 --> 00:18:51.940

emissions, upstream emissions for your particular power plant has

351

00:18:52.100 --> 00:18:56.080

gone up compared to that baseline

352

00:18:56.120 --> 00:18:59.780

level." But I'm, I'm saying if, if there are a number of gas
consumption

353

00:19:00.480 --> 00:19:04.100

processes in the country, they're all gonna be impacted by that
upstream change

354

00:19:04.900 --> 00:19:08.320

similarly, I would think. Could you help me

355

00:19:08.880 --> 00:19:10.740

understand if I've got that right?

356

00:19:11.400 --> 00:19:15.190

Ye-yes, sir. Dr. Andrew Roswell, cl-climate change

357

00:19:15.240 --> 00:19:18.380

science and law. Um, yes, I think that is

358

00:19:18.460 --> 00:19:22.440

correct. The gas supply for Connors Quay, as I

359

00:19:22.460 --> 00:19:25.780

understand it, would come from the National Transmission

360

00:19:26.000 --> 00:19:29.740
system. I think it is NTS. Um, and,

361
00:19:30.000 --> 00:19:32.420
as you say, it would for other,

362
00:19:33.780 --> 00:19:37.440
gas-fired power stations, abated or unabated, and

363
00:19:38.080 --> 00:19:41.840
it does for, con-cons- domestic

364
00:19:41.900 --> 00:19:45.210
industry and con, and domestic

365
00:19:45.280 --> 00:19:48.760
consumers a-as well. So that i-- that, that, that, that's

366
00:19:48.780 --> 00:19:52.360
completely correct. Um, what we have

367
00:19:52.400 --> 00:19:55.560
in, i-in this situation in trying

368
00:19:55.780 --> 00:19:59.540
to, assess the uncertainty of the greenhouse

369
00:19:59.620 --> 00:20:02.700
gas emissions is we have to

370
00:20:04.680 --> 00:20:08.080
l-take a diff, understand the difference between being able to

371
00:20:08.120 --> 00:20:11.900
track molecules. So, you know, can we

372
00:20:11.920 --> 00:20:15.480
track a molecule from Texas all the way to Connors Quay?

373
00:20:15.540 --> 00:20:19.460
The answer is no, we can't. But, you know, the difference between

374

00:20:19.560 --> 00:20:22.880

tracking molecules and how the market works.

375

00:20:22.940 --> 00:20:26.760

And in my, my seven pages, on

376

00:20:26.840 --> 00:20:30.440

this, on, on the gas supply, th-that's sort of

377

00:20:30.500 --> 00:20:33.690

pages seven to fourteen I think of my,

378

00:20:34.340 --> 00:20:35.900

submission,

379

00:20:37.240 --> 00:20:41.089

I, I, I do put quite a lot about... in about how the market

380

00:20:41.160 --> 00:20:44.880

will work, and particularly how the market will work when a

381

00:20:45.860 --> 00:20:49.620

abated gas-fired power station or dispatchable gas-fired

382

00:20:49.700 --> 00:20:53.500

power station like Connors Quay, actually comes

383

00:20:53.560 --> 00:20:56.880

into the merit order and actually starts to generate

384

00:20:56.960 --> 00:21:00.880

electricity. That's in a stressed situation,

385

00:21:01.480 --> 00:21:03.720

and in that situation,

386

00:21:05.180 --> 00:21:08.880

all the evidence we gain from the documents I, I've presented

387

00:21:09.500 --> 00:21:11.220
point towards

388
00:21:12.060 --> 00:21:16.040
a r- a high reliance on imports to handle the s- the

389
00:21:16.100 --> 00:21:20.040
sit- the situation where the, you know, the, the, the, the national
gas

390
00:21:20.120 --> 00:21:23.700
supply, needs to run extra

391
00:21:23.800 --> 00:21:27.360
facilities like a Connors Quay working in dispatch mode.

392
00:21:28.100 --> 00:21:30.140
Um, and,

393
00:21:32.280 --> 00:21:35.700
also of that, as I say, you know, a high proportion of

394
00:21:35.800 --> 00:21:38.440
LNG. So we're not trying to track

395
00:21:38.520 --> 00:21:41.700
molecules, but we're trying to assess the

396
00:21:41.760 --> 00:21:45.300
uncertainty and how that, then that uncertainty

397
00:21:45.340 --> 00:21:48.480
applies to the environmental impact assessment.

398
00:21:48.490 --> 00:21:51.700
I hope that's sort of clarified things.

399
00:21:51.740 --> 00:21:53.900
Yeah. Yes, it has. Thank you. Thank you, and appreciate we're gonna
come onto the

400

00:21:53.940 --> 00:21:54.800
other, other sections you've got.

401
00:21:54.820 --> 00:21:58.340
But that's, that is useful, and I think I do...

402
00:21:58.400 --> 00:22:00.780
I have got my head around. Well, thank you again for all the information you've

403
00:22:00.860 --> 00:22:04.640
sent. But also, having read it and tried to summarize it in my head, I think

404
00:22:04.700 --> 00:22:05.230
that is all

405
00:22:06.160 --> 00:22:09.940
ticking off, and I completely get what you're saying about at the time when

406
00:22:10.120 --> 00:22:13.740
a dispatchable power is required, there could be burdens on the

407
00:22:13.840 --> 00:22:17.320
network which mean we're having a higher reliance on other supply chains.

408
00:22:17.420 --> 00:22:17.690
Um,

409
00:22:19.400 --> 00:22:21.840
thank you. I'm gonna come back to the applicant for a right to reply if that's

410
00:22:21.980 --> 00:22:22.480
okay.

411
00:22:22.500 --> 00:22:22.680
Mm-hmm.

412
00:22:22.700 --> 00:22:25.640

But again, what, what I'm trying to get my head around, and I think you've, you've

413

00:22:25.660 --> 00:22:26.900
answered it a bit there with, you know,

414

00:22:27.860 --> 00:22:31.700
Connors Quay will be an abated dispatchable power system that will

415

00:22:31.760 --> 00:22:34.760
sort of be used when these, these peaks and troughs are

416

00:22:34.780 --> 00:22:38.660
required, is

417

00:22:38.880 --> 00:22:40.200
how is it different

418

00:22:42.040 --> 00:22:42.300
to

419

00:22:43.220 --> 00:22:44.980
any other gas

420

00:22:46.080 --> 00:22:46.900
consumer

421

00:22:48.100 --> 00:22:51.780
in, in the UK, and how is it different to any other

422

00:22:52.840 --> 00:22:54.540
non-gas consumer

423

00:22:56.380 --> 00:22:59.480
that produces dispatchable power?

424

00:22:59.560 --> 00:22:59.820
So

425

00:23:00.660 --> 00:23:02.150
I'm sorry, that's a bit of a weird question.

426

00:23:02.160 --> 00:23:06.120

But what I'm trying to get my head around is surely if carbon's emissions go up for

427

00:23:06.140 --> 00:23:09.980

Connors Quay 'cause they're buying liquid natural gas from Qatar, Texas,

428

00:23:10.020 --> 00:23:10.860

wherever it comes from,

429

00:23:11.740 --> 00:23:14.500

so it will for every other comparable

430

00:23:15.680 --> 00:23:19.520

development. And how much will it go up

431

00:23:19.600 --> 00:23:21.480

compared to someone who doesn't

432

00:23:23.520 --> 00:23:25.660

process liquid natural gas

433

00:23:26.740 --> 00:23:30.120

to produce their power? Is that a fair question?

434

00:23:30.140 --> 00:23:32.060

Do you mind?

435

00:23:33.240 --> 00:23:33.980

Penrhyn Marie

436

00:23:36.320 --> 00:23:40.040

for the applicant. Uh, yes, sir. I know there are quite a number of things to

437

00:23:40.100 --> 00:23:43.520

unpack here. Yes, and, and I think first of all, your point

438

00:23:43.720 --> 00:23:47.120

about none of us having crystal b****s I think is, is, is well made.

439

00:23:47.200 --> 00:23:50.840

Um, there is clearly uncertainty around any prediction

440

00:23:50.920 --> 00:23:53.720

of future trends, and I think that that is, has to be

441

00:23:53.760 --> 00:23:55.770

noted. The,

442

00:23:56.600 --> 00:24:00.500

a supply of natural gas into the UK comes from various sources.

443

00:24:00.540 --> 00:24:03.440

We have our own production in the North Sea.

444

00:24:03.480 --> 00:24:06.020

We import substantial amounts from Norway.

445

00:24:06.040 --> 00:24:09.970

There are two major pipelines that come directly from Norway into the UK,

446

00:24:10.140 --> 00:24:13.040

one at St. Fergus and one I think in

447

00:24:13.100 --> 00:24:17.076

Yorkshire. Plus, there isA

448

00:24:17.086 --> 00:24:20.996

share of the existing UK natural gas market that comes in

449

00:24:21.216 --> 00:24:24.436

by ship in the form of LNG from exactly that,

450

00:24:24.556 --> 00:24:27.536

Texas, Qatar, Algeria, wherever it may come

451

00:24:27.556 --> 00:24:31.356

from. These various sources

452

00:24:32.795 --> 00:24:36.476

have to be sort of aggregated in order to produce an

453

00:24:36.536 --> 00:24:39.416

overall well-to-tank emissions factor.

454

00:24:41.396 --> 00:24:42.836

We know that

455

00:24:43.836 --> 00:24:47.756

UK domestic production has got higher emissions than

456

00:24:47.996 --> 00:24:51.816

Norwegian production. The, the North Sea

457

00:24:53.576 --> 00:24:54.016

Transition

458

00:24:54.936 --> 00:24:58.206

Authority, the NSTA, has produced a very useful,

459

00:24:58.426 --> 00:25:02.376

infographic that shows quite clearly that Norwegian gas has got lower

460

00:25:02.516 --> 00:25:05.396

upstream emissions than UK gas.

461

00:25:05.436 --> 00:25:09.046

Conversely, LNG imports have got a,

462

00:25:09.636 --> 00:25:13.116

m- a substantially higher upstream emissions because of the

463

00:25:13.176 --> 00:25:17.096

additional work that has to be done to liquefy and transport

464

00:25:17.156 --> 00:25:19.176

and then regasify that gas to put it into the

465

00:25:19.256 --> 00:25:23.096

network. The well-to-tank factor that the

466

00:25:23.136 --> 00:25:26.416

government, publishes annually as part of its annual

467

00:25:26.536 --> 00:25:30.176

dataset, and it is the standard factor that has been

468

00:25:30.196 --> 00:25:34.096

used for this assessment, has got to try and, as I said,

469

00:25:34.196 --> 00:25:37.336

aggregate all these various sources and come up with an overall

470

00:25:37.536 --> 00:25:41.056

representative figure, and that's quite challenging.

471

00:25:41.156 --> 00:25:44.636

If you look at the methodology paper that is published that

472

00:25:44.996 --> 00:25:48.936

basically explains here's how we worked out these numbers, it

473

00:25:48.976 --> 00:25:52.716

provides a reference to a technical paper that was produced

474

00:25:52.796 --> 00:25:56.616

for the European Commission, and that is looking at,

475

00:25:57.356 --> 00:26:00.776

at natural gas that explicitly takes account of

476

00:26:00.856 --> 00:26:04.596

venting, flaring, and what we call, fugitive emissions of

477

00:26:04.636 --> 00:26:07.676

methane. That is all factored into that.

478

00:26:07.736 --> 00:26:11.416

There have been occasions in the recent past where

479

00:26:11.476 --> 00:26:15.136

the well-to-tank factor for, for natural gas has taken a

480

00:26:15.296 --> 00:26:18.596

fairly hefty jump upwards from one year to the next.

481

00:26:18.656 --> 00:26:22.276

As well as the methodology paper, there is a here's what's

482

00:26:22.316 --> 00:26:25.296

different this year from last year paper every year.

483

00:26:25.376 --> 00:26:29.336

And on that occasion, I think that happened in twenty-twenty-one, it said

484

00:26:29.576 --> 00:26:33.396

there has been a rise in LNG imports, and this has resulted in a

485

00:26:33.536 --> 00:26:36.166

thirty-two percent increase in the well-to-tank factor

486

00:26:37.636 --> 00:26:41.216

of this year. Those factors are published two years in arrears,

487

00:26:41.276 --> 00:26:44.486

so what happens in twenty nineteen gets reflected in the twenty

488

00:26:44.576 --> 00:26:47.696

twenty-one emissions factor and so on.

489

00:26:47.776 --> 00:26:51.176

So that's a bit of background onto, you know, how the gas gets here.

490

00:26:51.196 --> 00:26:54.716

Looking into the future, there are various

491

00:26:54.756 --> 00:26:58.536

projections and scen-scenarios about what the share of different

492

00:26:58.576 --> 00:27:01.696
sources of gas into the UK might be.

493

00:27:01.796 --> 00:27:01.946
Um,

494

00:27:02.816 --> 00:27:05.096
they don't all align with each other.

495

00:27:05.156 --> 00:27:09.116
The NESO Future Energy scen-scenario is quite a useful

496

00:27:09.136 --> 00:27:12.256
source. They talk about Norwegian gas. They talk about LNG.

497

00:27:12.276 --> 00:27:15.976
There's, there's also a sector called generic imports that's a
little bit less

498

00:27:16.056 --> 00:27:19.216
useful that could include LNG as well as other forms of

499

00:27:19.256 --> 00:27:23.056
gas. For most of the scenarios

500

00:27:23.116 --> 00:27:27.016
explicitly, the explicit LNG sector is, remains

501

00:27:27.076 --> 00:27:30.236
lower than the explicit Norwegian sector for most

502

00:27:30.296 --> 00:27:31.176
years.

503

00:27:32.496 --> 00:27:36.396
Added to that, we know that there are a number of

504

00:27:36.516 --> 00:27:37.836
national and international

505

00:27:38.956 --> 00:27:42.756

plans and projects and initiatives specifically aimed at tackling emissions of

506

00:27:42.796 --> 00:27:46.576

methane because everybody accepts that it is a powerful greenhouse

507

00:27:46.616 --> 00:27:50.556

gas. You know, not only is it more powerful than

508

00:27:50.596 --> 00:27:54.466

CO2 over a hundred-year lifetime, it is even more powerful over

509

00:27:54.556 --> 00:27:57.276

a shorter lifetime. It is a... It's what we call a short-lived

510

00:27:58.176 --> 00:28:01.736

greenhouse gas. It stays in the atmosphere for around about, twelve years or

511

00:28:01.796 --> 00:28:03.196

so.

512

00:28:04.076 --> 00:28:07.716

And because of this, the various emissions sources of methane across the

513

00:28:07.756 --> 00:28:11.436

economy in agriculture, in, in construction, in the oil and gas

514

00:28:11.476 --> 00:28:14.936

sector, there are a whole range of, of initiatives

515

00:28:15.356 --> 00:28:19.116

specifically aimed at reducing that, and we hope that they will, will

516

00:28:19.156 --> 00:28:22.676

be successful. All of us want to see less methane in the

517

00:28:22.696 --> 00:28:25.396

atmosphere. Coming onto the point about

518

00:28:26.536 --> 00:28:30.116

how the gas is used by which c-consumers, absolutely

519

00:28:30.156 --> 00:28:33.936

correct, as, as you alluded to. If you've

520

00:28:33.996 --> 00:28:37.656

got a, a power station with, carbon capture and

521

00:28:37.716 --> 00:28:41.696

storage, and then next door to it you've got an unabated power station, they are

522

00:28:41.756 --> 00:28:45.496

both using the same gas. So all of the factors that influence the

523

00:28:45.556 --> 00:28:49.456

upstream supply of natural gas will apply equally to either

524

00:28:49.496 --> 00:28:53.026

consumer. Now, not only is the proposed

525

00:28:53.136 --> 00:28:53.656

development

526

00:28:54.496 --> 00:28:54.836

got

527

00:28:55.916 --> 00:28:59.316

a carbon capture plant that is gonna extract the bulk of the

528

00:28:59.456 --> 00:29:02.056

direct scope one emissions and put them under the sea.

529

00:29:03.056 --> 00:29:04.746

Because of that, it will be,

530

00:29:05.896 --> 00:29:08.976

dispatched earlier in what we call the merit order.

531

00:29:09.676 --> 00:29:09.996

Okay.

532

00:29:10.516 --> 00:29:14.176

Okay? So when NESO as the

533

00:29:14.336 --> 00:29:18.136

system operator is trying to decide which generating units to connect

534

00:29:18.216 --> 00:29:21.036

to the nat- a national grid in order to meet

535

00:29:21.056 --> 00:29:24.236

demand, they apply what's called a merit

536

00:29:24.296 --> 00:29:28.236

order, and that is influenced by,

537

00:29:28.496 --> 00:29:31.796

well, actually by the marginal cost of these things.

538

00:29:31.816 --> 00:29:35.716

But if you've got a power station with carbon capture storage and a

539

00:29:35.736 --> 00:29:38.576

power station without carbon capture storage, they will always take the carbon

540

00:29:38.616 --> 00:29:42.456

capture storage one first. And on that basis, I think that we

541

00:29:42.516 --> 00:29:45.756

can state quite definitively that this power

542

00:29:45.816 --> 00:29:49.156

station in a certain scenario where

543

00:29:49.696 --> 00:29:53.336

dispatchable power is required, this will displace unabated

544

00:29:53.416 --> 00:29:54.016

gas.

545

00:29:55.016 --> 00:29:58.756

And as we've said, all of the factors, all of the uncertainties that

546

00:29:58.816 --> 00:30:00.696

influence the upstream natural gas supply

547

00:30:01.636 --> 00:30:05.196

will affect abated or unabated equally.

548

00:30:05.236 --> 00:30:09.016

So irrespective of what the natural gas supply chain

549

00:30:09.056 --> 00:30:11.596

looks like and how much LNG there is in the mix,

550

00:30:12.496 --> 00:30:16.366

this development will always be lower carbon than an

551

00:30:16.396 --> 00:30:19.036

existing unabated, generator.

552

00:30:20.508 --> 00:30:24.328

Okay. Thank you. Um, I will, probably come back to Dr Boswell in a

553

00:30:24.368 --> 00:30:26.728

moment, but I just wanted to pick up on a couple of points there that you raised.

554

00:30:26.738 --> 00:30:28.828

And I, I know we're talking a bit about methane leakage.

555

00:30:28.848 --> 00:30:31.548

I'd like to come onto that next if that's okay, then come back to that.

556

00:30:31.568 --> 00:30:35.168

But, I noted you said that Uniper is

557

00:30:35.188 --> 00:30:38.778

responsible for its sourcing, and I didn't understand if it was producing and

558

00:30:38.778 --> 00:30:41.988

abstracting, but collecting its own gas in the North Sea, and,

559

00:30:43.768 --> 00:30:47.508

then not necessarily arguing, but saying, you know, we, we are trying to obtain

560

00:30:47.868 --> 00:30:51.688

our own gas with less emissions. But going back to the point that

561

00:30:51.708 --> 00:30:54.628

Dr Boswell raised about, you know, you can't track molecules through the pipeline.

562

00:30:54.668 --> 00:30:57.728

So I, I, it may be that, you know, you're, you're very admirably

563

00:30:58.488 --> 00:31:01.728

trying to use a less intensive emitter of gas from a

564

00:31:01.768 --> 00:31:05.468

location. What comes to you in the pipe may be the one that's arrived by

565

00:31:05.528 --> 00:31:08.488

ship, port. But so I'll just pick up on that.

566

00:31:08.528 --> 00:31:11.988

But, so we can't track the individual molecules, and I get that, and I get

567

00:31:12.588 --> 00:31:16.447

that, you know, th- what you've been saying to me about how the plant will be a

568

00:31:16.498 --> 00:31:20.288

prioritized and dispatchable power again because it's, it's already

a, a

569

00:31:20.408 --> 00:31:23.588

lower impact. And, so thank you for all that.

570

00:31:24.028 --> 00:31:27.378

I would like to move on to methane leakage as well now if it--
'cause we just sort

571

00:31:27.388 --> 00:31:29.068

of touched on that. So is that okay with yourself, doctor?

572

00:31:29.078 --> 00:31:31.368

'Cause I'm just gonna cover off on the methane leakage, or is there
something you

573

00:31:31.428 --> 00:31:34.908

wanted to come back to about, just to close off the topic on

574

00:31:35.328 --> 00:31:39.288

upstream emissions? Um, accepting we will do methane

575

00:31:39.328 --> 00:31:40.838

leakage next. Right.

576

00:31:40.848 --> 00:31:44.478

Th-thanks, sir. Yeah. Yeah. I'm Dr Andrew Boswell, Climate

577

00:31:44.588 --> 00:31:48.388

Emergency Science and Law. I would like to come back, if

578

00:31:48.528 --> 00:31:51.808

I may, before we move on.

579

00:31:51.818 --> 00:31:51.818

Yeah.

580

00:31:51.908 --> 00:31:55.728

Um, first of all, on the, the issue of

581

00:31:56.088 --> 00:31:57.788

Norway,

582

00:31:59.628 --> 00:32:02.348

I have tried in my,

583

00:32:02.708 --> 00:32:04.608

submission,

584

00:32:06.168 --> 00:32:08.728

to, you know, provide all the evidence base that

585

00:32:09.568 --> 00:32:13.048

w-what the applicants claim on Norwegian

586

00:32:13.168 --> 00:32:16.928

gas, being sort of predominant or whatever

587

00:32:16.988 --> 00:32:19.948

out into the future is incorrect. I want to say quite

588

00:32:20.048 --> 00:32:23.808

clearly that, you know, my position is that

589

00:32:23.928 --> 00:32:26.708

that is incorrect. That is

590

00:32:26.788 --> 00:32:30.048

i-i-i-i-i-is wrong in the environmental

591

00:32:30.228 --> 00:32:34.128

assessment, and that we need

592

00:32:34.188 --> 00:32:37.408

to look at the Neso figures. And I, I've reproduced the

593

00:32:37.468 --> 00:32:40.348

graph on page,

594

00:32:41.148 --> 00:32:44.178

um...

595

00:32:45.428 --> 00:32:46.328

Sorry. Okay.

596

00:32:47.688 --> 00:32:51.548

Let's find it. I-i-in my, latest representation,

597

00:32:51.568 --> 00:32:55.508

it's page nine. I've reproduced the Neso graph and all the

598

00:32:55.588 --> 00:32:59.368

numbers behind that. Um, I don't know if you're able

599

00:32:59.448 --> 00:33:01.148

to see that graph.

600

00:33:01.908 --> 00:33:05.048

Um, well, like I say, what I will do is I will obviously,

601

00:33:06.608 --> 00:33:09.977

read... I have read your submissions that you've given to me already. I have.

602

00:33:09.988 --> 00:33:13.648

I'm aware. But I'll be honest with you, I mean, I woke up this morning to the news

603

00:33:13.728 --> 00:33:17.208

that NTSA are saying that in the future it's forty percent

604

00:33:17.348 --> 00:33:21.318

LNG, and, OEUK is saying it's gonna be sixty per...

605

00:33:21.348 --> 00:33:24.888

So it's, it's a moving feast. And what we're looking to do here, I think, is,

606

00:33:25.648 --> 00:33:26.788

you're trying to predict the future.

607

00:33:26.828 --> 00:33:30.417

If you know exactly how much LNG is coming in the future, please let

us all know.

608

00:33:30.448 --> 00:33:31.648

That'd be very useful.

609

00:33:31.688 --> 00:33:32.298

Yeah. Well, that, that's-

610

00:33:32.298 --> 00:33:36.208

But what I think is fair to say is, you know, you're raising this concern

611

00:33:36.248 --> 00:33:39.708

about the assumption that has been made in the assessment is

612

00:33:39.868 --> 00:33:42.697

sensitive, and I think that is a reasonable assumption. Yeah.

613

00:33:42.728 --> 00:33:46.668

And go back to the client and say, "Can we challenge you that what if

614

00:33:47.668 --> 00:33:48.108

your

615

00:33:50.468 --> 00:33:54.388

gas comes from somewhere else in the future, what does your

616

00:33:54.428 --> 00:33:57.148

emissions look like?" And I think, you know, it really is-- I, I don't want to get

617

00:33:57.168 --> 00:34:00.488

into too much detail because I don't think we necessarily need to, but I think

618

00:34:00.528 --> 00:34:04.248

that's where I'm-- that's, that's my line of questioning is if, if

619

00:34:04.388 --> 00:34:04.727

your

620

00:34:05.628 --> 00:34:09.428

future delivery supply comes from somewhere different that is more carbon or

621

00:34:09.488 --> 00:34:13.428

methane intensive, what is the sensitivity of that and what does your

622

00:34:13.468 --> 00:34:16.548

potential emission, rate look like?

623

00:34:16.848 --> 00:34:19.808

Is that fair to say? That, that's, that's the route I'd like to pursue, I think.

624

00:34:19.819 --> 00:34:23.028

And, and not necessarily... 'Cause I, I appreciate you have given me a, a wide

625

00:34:23.089 --> 00:34:26.348

range of evidence to say that, and it would seem to be backed up by some of the

626

00:34:26.368 --> 00:34:28.089

evidence I've seen this morning also.

627

00:34:28.109 --> 00:34:31.609

But, th-that pot-potentially future LNG

628

00:34:32.028 --> 00:34:35.028

demand may grow. Uh, and, and who knows what's gonna happen

629

00:34:36.609 --> 00:34:40.368

tomorrow with, the Middle East. But, yeah.

630

00:34:40.468 --> 00:34:43.109

You know, it's very, it's very dynamic and volatile, and I think, I think you're

631

00:34:43.169 --> 00:34:46.388

right to draw my attention to that and say, basing it on one assumption.

632

00:34:46.408 --> 00:34:49.988

What I'm interested in is if everybody's doing that, does it

633

00:34:50.028 --> 00:34:51.908

matter? Because as everybody moves.

634

00:34:51.988 --> 00:34:55.468

Or actually, no, it's specific for Connors Quay because, and

635

00:34:55.528 --> 00:34:59.228

therefore it may be that you may be a very significant

636

00:34:59.288 --> 00:35:02.768

carbon emitter in the future for this very subtle change.

637

00:35:02.788 --> 00:35:04.368

That's the bit I'm trying to get my head around.

638

00:35:04.388 --> 00:35:05.428

Mm-hmm.

639

00:35:07.488 --> 00:35:11.218

Y-yes. Thank you. Thank you, sir. I'm Dr Andrew Boswell, Climate

640

00:35:11.268 --> 00:35:14.648

Emergency Science and Law. Yes. That, that, that, th-thank you very much.

641

00:35:14.688 --> 00:35:18.548

That was really helpful. If we won't go into the detail, I

642

00:35:18.588 --> 00:35:22.148

just wanted to highlight that Norwegian claim in

643

00:35:22.208 --> 00:35:26.158

my view is false. But, I, I agree with

644

00:35:26.228 --> 00:35:29.588

exactly what you say, really. It's about the uncertainty-

645

00:35:30.208 --> 00:35:30.348

Yeah

646

00:35:30.468 --> 00:35:33.308

... and how we assess that for the environmental impact

647

00:35:33.408 --> 00:35:36.988

assessment. And I do go back to the legal

648

00:35:37.228 --> 00:35:40.788

framework I set out in section two, A, in page

649

00:35:40.948 --> 00:35:44.288

four of my submission. I mean, very

650

00:35:44.568 --> 00:35:48.448

briefly, s- you'll be well familiar with the DIA regs,

651

00:35:48.508 --> 00:35:51.708

but, you know, you have to identify and describe and

652

00:35:51.768 --> 00:35:55.008

assess the likely significant impacts of the

653

00:35:55.068 --> 00:35:58.348

development, and you have to take into account

654

00:35:58.428 --> 00:36:01.028

cur-current knowledge and methods of assessment.

655

00:36:01.048 --> 00:36:02.668

And my,

656

00:36:04.448 --> 00:36:08.358

you know, position here is purely based on whether

657

00:36:08.388 --> 00:36:12.068

that's being done right. So

658

00:36:12.148 --> 00:36:15.698

it's not an issue of whether it

659

00:36:15.768 --> 00:36:19.322
affects other power stations. I

660

00:36:19.372 --> 00:36:22.362
mean, I, I, I agree entirely. It, it affects, you know,

661

00:36:23.132 --> 00:36:26.452
u-u-unabated power stations as much as abated

662

00:36:26.512 --> 00:36:30.332
power stations being, being brought through, the planning

663

00:36:30.452 --> 00:36:33.651
system. But the, the point is that the

664

00:36:33.732 --> 00:36:37.692
developer... Sorry, the decision maker must
have

665

00:36:37.772 --> 00:36:41.452
the full knowledge of the project's likely significant,

666

00:36:41.772 --> 00:36:45.532
effects, and that brings in, you know, the Rochdale envelope

667

00:36:45.592 --> 00:36:49.352
and the, the, the Milne case around, two

668

00:36:49.451 --> 00:36:53.132
thousand and, and, and so on. And, and my current

669

00:36:53.232 --> 00:36:55.251
position is that the EIA

670

00:36:56.132 --> 00:36:58.932
lacks current knowledge and methods of assessment,

671

00:37:00.032 --> 00:37:03.392
it fails to consider the short-term methane effects,

672

00:37:03.992 --> 00:37:07.792

and it fails to, assess the reasonable worst case scenarios across

673

00:37:07.832 --> 00:37:11.612

all three parameters. I know we're talking at the moment about the upstream

674

00:37:11.672 --> 00:37:12.792

emissions.

675

00:37:12.832 --> 00:37:14.832

Yeah. So thank you. Uh, that's, that's helpful.

676

00:37:14.872 --> 00:37:17.302

I think, you know, I understand that. I understand where...

677

00:37:17.312 --> 00:37:19.902

I think my line of questioning is gonna go to the applicant in the future, and

678

00:37:19.952 --> 00:37:22.472

obviously they'll reply to your evidence submitted as well.

679

00:37:22.492 --> 00:37:25.772

But I think I understand where I'm trying to inquire of more

680

00:37:25.812 --> 00:37:29.592

information. Does, is there anything you wish to follow up from that first item

681

00:37:29.632 --> 00:37:33.432

about upstream emissions before we move on to methane leakage?

682

00:37:34.792 --> 00:37:35.292

Ben Murray

683

00:37:36.112 --> 00:37:39.832

for the applicant. Uh, yeah, just to reiterate again

684

00:37:39.932 --> 00:37:43.512

to agree with, Dr. Boswell about the inherent uncertainty-

685

00:37:43.572 --> 00:37:43.632

Yeah

686

00:37:43.692 --> 00:37:47.472

... about the future gas supply, as you noted from the media coverage at the

687

00:37:47.512 --> 00:37:48.592

moment. Um,

688

00:37:50.052 --> 00:37:54.012

the fact that any changes in the upstream gas

689

00:37:54.052 --> 00:37:57.872

supply will affect all consumers equally, and it will only

690

00:37:57.912 --> 00:38:00.192

affect their upstream scope three emissions.

691

00:38:00.212 --> 00:38:00.632

Yeah.

692

00:38:00.712 --> 00:38:03.972

If you've got... Once again, if you've got abated and

693

00:38:04.012 --> 00:38:07.872

unabated, then the abated one will be dispatched earlier and will have

694

00:38:07.912 --> 00:38:11.132

substantially lower overall emissions, notwithstanding

695

00:38:11.912 --> 00:38:14.032

any increases in the upstream supply chain.

696

00:38:14.092 --> 00:38:17.652

Yes, in the event of there being increased

697

00:38:17.792 --> 00:38:18.812

LNG content

698

00:38:19.972 --> 00:38:23.902

in the UK natural gas mix, all we can

699

00:38:23.952 --> 00:38:26.912

say is the water tank factor will be higher.

700

00:38:26.951 --> 00:38:30.412

How much higher, we can't say because there are other variables that we would have

701

00:38:30.472 --> 00:38:34.252

to factor in and, and I don't think it's practicable at the

702

00:38:34.312 --> 00:38:38.012

moment. So what would be the overall share between Norway and UK

703

00:38:38.332 --> 00:38:40.932

and LNG? How much LNG? How much Norway?

704

00:38:40.952 --> 00:38:42.412

We don't know.

705

00:38:42.452 --> 00:38:44.842

Thank you. Um, I- I'm gonna move on in a minute, but I'm just...

706

00:38:44.852 --> 00:38:47.372

Yeah, just need something. I, I think thank you again for drawing attention to

707

00:38:47.412 --> 00:38:51.252

that. Thank you because I think on, on all parties 'cause, you know, there is that

708

00:38:51.312 --> 00:38:53.712

uncertainty. I understand completely what you're saying as well, Dr.

709

00:38:53.732 --> 00:38:56.482

Boswell, that the EIA should consider the, the worst case scenario.

710

00:38:56.512 --> 00:39:00.272

So I will process that and come back to you in, in writing w-with

711

00:39:00.332 --> 00:39:03.812

that. I'm gonna move on to methane leakage as, as you already alluded to a little

712

00:39:03.852 --> 00:39:06.152

bit in, in, the conversation we've already had, Mr.

713

00:39:06.172 --> 00:39:08.672

Murray, and also going back to Dr. Boswell again.

714

00:39:08.712 --> 00:39:10.642

I'll, I'll come to the applicant first and then back to Dr.

715

00:39:10.652 --> 00:39:14.452

Boswell, if that's okay. But just my understanding from what I've read of the

716

00:39:14.512 --> 00:39:15.692

evidence that's been submitted to me

717

00:39:16.552 --> 00:39:19.932

is, and as you pointed out just a moment ago, is that

718

00:39:21.872 --> 00:39:25.852

shorter scale methane assessment is-- should be undertaken

719

00:39:25.872 --> 00:39:28.732

because the hundred-year assessment, the long-term assessment,

720

00:39:29.852 --> 00:39:32.992

has a significantly different impact over a shorter horizon being

721

00:39:33.032 --> 00:39:36.892

considered. So I think, again, correct me if I'm

722

00:39:36.912 --> 00:39:39.452

wrong, what, what, what I have read from the evidence that I've

723

00:39:41.392 --> 00:39:42.892
received is

724
00:39:43.692 --> 00:39:45.012
there is likely to be

725
00:39:46.052 --> 00:39:49.872
a higher consequence of methane leakage in the,

726
00:39:49.912 --> 00:39:53.412
effectively the upstream emissions of this over a shorter term
horizon of which

727
00:39:53.422 --> 00:39:57.092
this project is relatively short term compared to something like

728
00:39:57.152 --> 00:40:00.461
a, a hundred-year design life. This is like a thirty-year design
life.

729
00:40:00.592 --> 00:40:02.792
So I think what

730
00:40:03.852 --> 00:40:07.552
has been requested is could an assessment be made of the short term

731
00:40:07.852 --> 00:40:11.192
methane leakage and its consequences over a shorter

732
00:40:11.202 --> 00:40:14.492
horizon? So to the applicant first, if that's okay, and let me know,
and I'll come

733
00:40:14.532 --> 00:40:15.122
back to Dr.

734
00:40:15.352 --> 00:40:18.532
Ben Murray for the applicant. Uh, yes, sir.

735
00:40:18.572 --> 00:40:22.272
It is, it is noted and accepted that different greenhouse gases have

736

00:40:22.372 --> 00:40:24.032
got different warming potentials,

737

00:40:25.072 --> 00:40:28.992
and those warming potentials are also variable over different time

738

00:40:29.032 --> 00:40:31.222
horizons, and that's, that's, you know,

739

00:40:32.492 --> 00:40:35.792
not in-- that is not con- attested

740

00:40:36.112 --> 00:40:39.772
anywhere here. Uh, and methane, as we've noted, is a

741

00:40:39.792 --> 00:40:41.332
short-lived gas. Um,

742

00:40:43.092 --> 00:40:46.912
the standard approach for carbon accounting, both nationally

743

00:40:47.092 --> 00:40:50.962
within the UK and internationally under the auspices of the UN
Framework

744

00:40:51.012 --> 00:40:54.792
Convention on Climate Change and the Paris Agreement, is to apply a
one

745

00:40:54.852 --> 00:40:58.432
hundred-year, global warming potential.

746

00:40:58.452 --> 00:41:02.272
And that has been applied because it is the best way

747

00:41:02.332 --> 00:41:05.952
to reflect the long-term warming impact of the cumulative

748

00:41:05.992 --> 00:41:09.652
emissions of carbon dioxide, which is the dominant

749

00:41:09.752 --> 00:41:12.352

gas when it comes to long-term warming.

750

00:41:12.392 --> 00:41:15.632

So if your ambition is to restrict

751

00:41:16.092 --> 00:41:19.812

long-term warming, then that is the appropriate metric to

752

00:41:19.992 --> 00:41:23.452

use. So for better or worse, that is the factor that has been

753

00:41:23.492 --> 00:41:27.212

adopted, and it feeds through into all of our carbon accounting

754

00:41:27.252 --> 00:41:28.632

systems. So

755

00:41:30.732 --> 00:41:33.872

it influences specifically and explicitly the

756

00:41:33.952 --> 00:41:37.332

annual emissions factors that are, are published

757

00:41:37.392 --> 00:41:41.212

by the, the government that had been used in this assessment, and that

758

00:41:41.292 --> 00:41:44.032

is, that is made clear in the methodology

759

00:41:44.272 --> 00:41:47.712

statement. They influence the

760

00:41:48.812 --> 00:41:52.672

generation of carbon budgets, the legally binding statutory carbon

761

00:41:52.732 --> 00:41:55.982

budgets that apply in the UK and the devolved

762

00:41:56.092 --> 00:42:00.012
administrations advised by the Committee on Climate Change and,

763

00:42:00.192 --> 00:42:04.012
ratified, by Parliament. Um, and they apply

764

00:42:04.472 --> 00:42:08.372
for the UK's submissions to the UNFCC

765

00:42:09.232 --> 00:42:12.532
in terms of our national emissions inventories.

766

00:42:12.592 --> 00:42:12.772
So

767

00:42:14.092 --> 00:42:17.512
yes, while it is true that a shorter

768

00:42:18.372 --> 00:42:21.412
global warming potential time horizon for methane would

769

00:42:21.492 --> 00:42:25.144
result in higher emissions for the proposed

770

00:42:25.264 --> 00:42:28.864
development. The question that I would put back to, to Dr

771

00:42:28.944 --> 00:42:32.174
Boswell and anybody else is what do you do with that figure?

772

00:42:33.004 --> 00:42:36.804
Because all of the pathways to net zero that

773

00:42:36.864 --> 00:42:40.744
our guidance requires us to contextualize our emissions

774

00:42:40.804 --> 00:42:44.744
against have all been developed on the basis of a

775

00:42:44.804 --> 00:42:48.724
one hundred year time horizon. So not only is

776

00:42:48.764 --> 00:42:52.524

it a higher figure, it's a higher and qualitatively different

777

00:42:52.584 --> 00:42:52.924

figure

778

00:42:53.924 --> 00:42:56.064

like that can no longer be compared-

779

00:42:56.144 --> 00:42:56.194

Yeah.

780

00:42:56.194 --> 00:42:57.844

-to you and to our national

781

00:42:57.904 --> 00:43:00.464

budgets.

782

00:43:01.524 --> 00:43:02.804

Okay. Thank you. So

783

00:43:04.164 --> 00:43:07.004

I'm just trying to get this summarized in my head again.

784

00:43:07.064 --> 00:43:07.884

There's an acknowledgement

785

00:43:09.564 --> 00:43:09.804

that

786

00:43:12.784 --> 00:43:16.024

the leakage of methane from the

787

00:43:16.544 --> 00:43:20.284

abstraction, production, transmission of the natural

788

00:43:20.364 --> 00:43:20.764

gas

789

00:43:22.304 --> 00:43:22.964
is higher

790

00:43:24.044 --> 00:43:27.663
and more impactful in the shorter term than the longer term horizon.
I suppose.

791

00:43:27.684 --> 00:43:29.384
So we, so we agree that that, that is

792

00:43:29.904 --> 00:43:32.444
fact.

793

00:43:34.564 --> 00:43:37.874
What you're saying to me is the policy and approach that you're
taking to use is

794

00:43:37.944 --> 00:43:41.104
over a longer horizon 'cause it's predicated on the carbon dioxide

795

00:43:41.144 --> 00:43:44.634
component, and that's everything that we're comparing like for

796

00:43:44.684 --> 00:43:45.864
like and

797

00:43:47.724 --> 00:43:50.884
carbon budget trading and, and carbon accounting for.

798

00:43:52.504 --> 00:43:54.284
It would be possible to assess

799

00:43:55.304 --> 00:43:58.844
the methane leakage rates over a shorter horizon, but you would have

800

00:43:59.044 --> 00:44:02.344
nothing to compare them to or use them usefully,

801

00:44:04.884 --> 00:44:07.984
to use as a, a carbon trading tool, for want of a better word.

802

00:44:08.064 --> 00:44:08.284
So

803
00:44:09.524 --> 00:44:11.894
okay. I think I got all that. Um,

804
00:44:15.024 --> 00:44:18.944
I'm also conscious about moving away from standard approaches

805
00:44:19.364 --> 00:44:22.844
and government policy, which is beyond the remit of this,

806
00:44:23.404 --> 00:44:27.294
examination. Dr Boswell, would you like to come in on any of the
points that Mr

807
00:44:27.484 --> 00:44:29.644
Murray's just raised?

808
00:44:29.704 --> 00:44:33.304
Yes. Thank you, sir. Uh, Dr Andrew Boswell, Climate Emergency

809
00:44:33.424 --> 00:44:35.924
Science and Law. Um,

810
00:44:38.084 --> 00:44:39.264
yeah. Um,

811
00:44:40.384 --> 00:44:44.144
I, I think I'd like to just,

812
00:44:44.804 --> 00:44:46.984
emphasize the materiality

813
00:44:48.224 --> 00:44:52.174
of the short-term impacts. Um,

814
00:44:53.204 --> 00:44:56.824
and th-th-this is all in

815
00:44:56.884 --> 00:45:00.794

my, my document, but there's three key things

816

00:45:00.864 --> 00:45:04.174

really, to emphasize. The,

817

00:45:06.164 --> 00:45:09.413

methane has already made a substantial

818

00:45:09.444 --> 00:45:13.104

contribution to the observed anthropogenic warming to

819

00:45:13.184 --> 00:45:16.684

date. Um, and specifically on,

820

00:45:16.964 --> 00:45:19.124

page thirty-four, bullet

821

00:45:20.204 --> 00:45:22.224

a hundred and fifty-eight of my s-

822

00:45:23.244 --> 00:45:24.724

deadline free submission,

823

00:45:26.084 --> 00:45:29.604

I point to the IPCC data on

824

00:45:29.664 --> 00:45:32.764

that. Um, it's approximately point five of the

825

00:45:32.774 --> 00:45:35.684

degree of, at that time-

826

00:45:35.753 --> 00:45:35.753

Yes.

827

00:45:35.944 --> 00:45:38.684

-one point o seven degree warming.

828

00:45:38.693 --> 00:45:38.714

Um-

829

00:45:38.744 --> 00:45:41.904

I, I, I don't think we're, you know, we're, we're di- you know, I don't think, I

830

00:45:41.924 --> 00:45:43.864

don't, I don't think the applicant's disputing any of that, and I think, you know,

831

00:45:43.884 --> 00:45:44.874

the, the, the-

832

00:45:44.884 --> 00:45:45.114

Right.

833

00:45:45.114 --> 00:45:48.844

-the science around climate change and, and, and, and the evidence of change is

834

00:45:49.344 --> 00:45:52.014

certainly something I'm, I'm aware of and been working in for a long period of

835

00:45:52.044 --> 00:45:55.384

time. But what we were, I think, trying to get to there

836

00:45:56.044 --> 00:45:59.354

is the method, you know, and, and I don't think we're disputing that methane is

837

00:45:59.424 --> 00:46:01.864

particularly damaging and particularly damaging over a short horizon.

838

00:46:03.084 --> 00:46:03.094

Mm.

839

00:46:03.124 --> 00:46:06.904

So the me-materially, I don't think you have to point that out to the examination.

840

00:46:06.913 --> 00:46:06.913

Mm.

841

00:46:06.924 --> 00:46:08.964

I think you've done that in your evidence, and, and I think-

842

00:46:09.164 --> 00:46:09.184

Mm

843

00:46:09.664 --> 00:46:11.224

...we're, we're in agreement with that.

844

00:46:12.184 --> 00:46:15.784

What we're trying to say is the, the method of assessment of the methane

845

00:46:15.844 --> 00:46:16.504

damage-

846

00:46:16.544 --> 00:46:16.834

Mm-hmm.

847

00:46:17.704 --> 00:46:20.584

We're con- we're con- the applicant is advising me they're being con-

848

00:46:20.804 --> 00:46:23.114

To answer that more directly. Thank, thank you, sir.

849

00:46:23.114 --> 00:46:26.404

Uh, Dr Andrew Boswell, Climate Emergency Science

850

00:46:26.564 --> 00:46:30.444

Law. Um, what I'm

851

00:46:30.624 --> 00:46:33.664

saying, and let me tell you this quite clearly, is I'm not

852

00:46:34.404 --> 00:46:38.284

challenging, first of all, this sort of goes back to our last section.

853

00:46:38.294 --> 00:46:39.944

I'm not challenging the use

854

00:46:40.984 --> 00:46:42.223
of the government

855

00:46:43.144 --> 00:46:46.784
WTT factor. I'm just saying

856

00:46:46.964 --> 00:46:49.624
that there's an uncertainty associated with

857

00:46:49.684 --> 00:46:53.524
that, and that that

858

00:46:53.584 --> 00:46:57.444
uncertainty and the reasonable worst case which comes from it hasn't
been

859

00:46:57.464 --> 00:47:01.244
assessed. So I'm saying you start with the WTT

860

00:47:01.364 --> 00:47:05.244
factor, and then what I consider

861

00:47:05.284 --> 00:47:09.244
is needed is that you need a sensitivity test on top of

862

00:47:09.264 --> 00:47:12.944
that. Now that, that covers the point from the previous part.

863

00:47:12.984 --> 00:47:16.944
When we come onto the short-term methane, I'm saying

864

00:47:16.984 --> 00:47:19.364
then you have a second sensitivity

865

00:47:19.424 --> 00:47:22.604
test, which brings in the, the

866

00:47:22.864 --> 00:47:26.044
GP, the GWP twenty

867

00:47:26.404 --> 00:47:26.934
factor

868

00:47:28.184 --> 00:47:29.504
to assess

869

00:47:30.724 --> 00:47:33.944
or, or, or, or rather so to, to at this point to identify and

870

00:47:34.024 --> 00:47:36.744
describe the likely,

871

00:47:37.724 --> 00:47:41.184
significant impacts of the reasonable worst case for, for those

872

00:47:41.224 --> 00:47:45.144
effects. So that's my... See, I'm not actually saying

873

00:47:45.204 --> 00:47:49.044
you get rid of the, the f- the, the, the existing factor at all.

874

00:47:49.064 --> 00:47:52.904
I'm saying you build stepwise sensitivity tests, and this

875

00:47:52.964 --> 00:47:55.984
one for the near term climate effects is the

876

00:47:56.044 --> 00:47:58.854
second of those sensitivity tests.

877

00:47:58.904 --> 00:48:02.824
Now, how do you, do something with that?

878

00:48:02.884 --> 00:48:06.524
That was, you know, from Mr Murray. That was Mr Murray's question.

879

00:48:06.684 --> 00:48:08.804
What do you do with that if you do it?

880

00:48:08.884 --> 00:48:12.764
A, a, a very fair question. Now, I would

881
00:48:12.884 --> 00:48:15.243
say that the IEMA

882
00:48:15.904 --> 00:48:19.764
guidance, the twenty twenty-two IE- IEMA

883
00:48:19.844 --> 00:48:23.784
guidance on greenhouse gas, assessment, can't remember the

884
00:48:23.804 --> 00:48:26.584
exact title, but I'm sure you know the document that I'm referring

885
00:48:26.664 --> 00:48:29.914
to. Um-Addresses

886
00:48:29.984 --> 00:48:33.704
contextualization alongside

887
00:48:33.804 --> 00:48:37.644
the assessment and the assessment of significance.

888
00:48:37.664 --> 00:48:41.444
And that, I believe, is the point where if you do the

889
00:48:41.464 --> 00:48:44.644
sensitivity test exercise I'm talking about

890
00:48:45.484 --> 00:48:49.324
with a GWP twenty, you'd say, "Ah, we're

891
00:48:49.404 --> 00:48:52.184
seeing this additional near-term

892
00:48:52.964 --> 00:48:56.584
climate impacts on the system in, in, in ten

893
00:48:56.684 --> 00:49:00.484
years, twenty years sort of timescales,

894

00:49:00.584 --> 00:49:04.133

and that this is very materially, physically,

895

00:49:04.184 --> 00:49:08.124

scientifically relevant." Um,

896

00:49:08.204 --> 00:49:11.944

and that's the contextualization, you could

897

00:49:12.004 --> 00:49:14.744

then give to that sensitivity test.

898

00:49:14.764 --> 00:49:16.984

You'd use it as contextualization

899

00:49:17.784 --> 00:49:20.984

for the, for the final assessment and the final

900

00:49:21.064 --> 00:49:22.344

decision.

901

00:49:22.404 --> 00:49:22.684

Okay.

902

00:49:22.704 --> 00:49:22.874

Um-

903

00:49:22.884 --> 00:49:25.974

Thank you for that. So actually, again, just to get my head around that and what

904

00:49:26.004 --> 00:49:29.434

you've just said, I un-understand, I understand, you know, again, we've

905

00:49:29.444 --> 00:49:32.824

been talking a little bit on the Rochdale envelope and us looking at the range of

906

00:49:32.864 --> 00:49:36.264

scenarios that might occur for this site and this issue

907

00:49:36.504 --> 00:49:38.424
specifically around climate change.

908

00:49:38.504 --> 00:49:41.394
Um, and I understand, you know, the challenge about what you're,
what you're-- I

909

00:49:41.404 --> 00:49:44.684
think if I get to the, to the nub of it, is you're, you're
challenging the

910

00:49:44.744 --> 00:49:46.244
uncertainty on future

911

00:49:47.524 --> 00:49:50.974
supply really, and it, and, and that's, that's a, you know,

912

00:49:51.604 --> 00:49:54.124
that's a, that's a, that's a difficult egg to, to crack, isn't it?

913

00:49:54.184 --> 00:49:57.894
But, I'll come back to the applicant in a

914

00:49:57.964 --> 00:50:01.124
moment. But what I think I'm still coming back to this point, and
it's a bit like

915

00:50:01.144 --> 00:50:03.464
the emission scenario of,

916

00:50:05.224 --> 00:50:08.924
yes, the gas may come from somewhere else, but it'll come from
somewhere else for

917

00:50:08.984 --> 00:50:12.904
everyone. Yes, this project should assess on

918

00:50:12.944 --> 00:50:15.784
its own merits, so it shouldn't take into account what everyone else
is doing.

919

00:50:15.804 --> 00:50:18.034

But should the EIA should consider its own,

920

00:50:18.084 --> 00:50:21.544

envelope of factors

921

00:50:21.884 --> 00:50:24.804

and, and make sure that it's allowing for all the worst case

922

00:50:26.404 --> 00:50:30.064

aspects of all of that. The methane

923

00:50:30.184 --> 00:50:31.184

leakage rate

924

00:50:32.564 --> 00:50:36.504

is worse over the shorter term. It would be possible

925

00:50:36.924 --> 00:50:40.644

to assess that impact over the shorter term, but it would make it
incredibly

926

00:50:40.684 --> 00:50:44.644

difficult to compare to any other project of a similar

927

00:50:44.684 --> 00:50:47.844

nature to say, is it worse or better than this project?

928

00:50:47.864 --> 00:50:51.434

Because it's not done elsewhere. So can I come back to Mr.

929

00:50:51.464 --> 00:50:54.724

Murray and just say if I got my head around that bit correctly or
not?

930

00:50:56.104 --> 00:51:00.064

Ben Murray for the applicant. Uh, I think that's a fair summary,
sir. Yeah.

931

00:51:00.104 --> 00:51:03.484

So just to, again, unpack this a little bit.

932

00:51:03.504 --> 00:51:07.484

Number one, yes, you would have a higher number if

933

00:51:07.524 --> 00:51:08.644

you were to apply-

934

00:51:08.744 --> 00:51:08.754

Yeah

935

00:51:08.864 --> 00:51:11.964

... a shorter time horizon for methane. That's not in doubt.

936

00:51:12.044 --> 00:51:14.504

Uh, and that's technically possible.

937

00:51:14.524 --> 00:51:16.804

But as we said, that figure would not be

938

00:51:18.144 --> 00:51:22.004

comparable to any of, of, any of those bigger picture numbers like

939

00:51:22.124 --> 00:51:26.064

UK carbon budgets. And number two, it would apply to

940

00:51:26.144 --> 00:51:29.824

all users of gas equally. So it would apply to the unabated gas that would have

941

00:51:29.864 --> 00:51:31.304

higher overall emissions-

942

00:51:31.464 --> 00:51:31.754

Okay

943

00:51:31.754 --> 00:51:32.504

... for doing the same-

944

00:51:33.384 --> 00:51:33.644

Thank you

945

00:51:33.744 --> 00:51:34.804
... structural power.

946

00:51:34.824 --> 00:51:36.644
I thank you. But I would just go back to Dr.

947

00:51:36.664 --> 00:51:37.684
Boswell's point about

948

00:51:39.524 --> 00:51:42.964
g- looking at your Rochdale envelope and considering your worst case scenarios of

949

00:51:43.044 --> 00:51:44.524
all of your factors. But I, I understand.

950

00:51:44.544 --> 00:51:48.484
So I, I've, I think I've got enough information now for me to succinctly

951

00:51:48.544 --> 00:51:51.944
try and put that in a question to you later, perhaps, but also... So thank you.

952

00:51:51.984 --> 00:51:55.094
I'm gonna move on to carbon capture now, which is I think the final point that

953

00:51:55.124 --> 00:51:57.204
we've, we've raised, Dr. Boswell.

954

00:51:57.214 --> 00:51:59.944
And I'm just gonna go back again to the applicant again if I can try and structure

955

00:52:00.024 --> 00:52:02.204
a question and see if I can get it answered and then come back to you for your

956

00:52:02.224 --> 00:52:03.044
opinion on that.

957

00:52:03.064 --> 00:52:07.004

Ex- excuse me, sir. I- is it possible just to say, two

958

00:52:07.044 --> 00:52:09.074

more things at this point very briefly-

959

00:52:10.524 --> 00:52:10.554

Okay, sure

960

00:52:10.564 --> 00:52:14.534

... on the short-term methane? Um, just to sort of,

961

00:52:15.304 --> 00:52:17.204

extend what I said about

962

00:52:17.224 --> 00:52:20.524

contextualization that,

963

00:52:21.204 --> 00:52:23.824

or, or, or what the last thing I said.

964

00:52:23.924 --> 00:52:27.784

Um, I, I think I'd go

965

00:52:27.844 --> 00:52:31.824

back one step further and say that, of course, all of this is

966

00:52:31.864 --> 00:52:34.404

going back to getting the full knowledge

967

00:52:35.204 --> 00:52:38.064

for the environmental impact assessment, and that

968

00:52:38.124 --> 00:52:42.044

contextualization is only sort of one if you

969

00:52:42.084 --> 00:52:45.844

like, one way of getting full knowledge, and I didn't track it right

970

00:52:45.944 --> 00:52:48.263
back to that. So I just wanted to make that clear.

971
00:52:48.284 --> 00:52:51.504
And the second thing on the, the effect of the

972
00:52:51.584 --> 00:52:54.944
short-term methane on the unabated gas

973
00:52:55.064 --> 00:52:56.404
system,

974
00:52:58.444 --> 00:53:01.824
I'd like to deal with that in the item four point

975
00:53:02.124 --> 00:53:06.004
two, which we come on to. But I just wanted to sort of,

976
00:53:06.064 --> 00:53:09.124
if you like, give a forward pointer at this stage that-

977
00:53:09.164 --> 00:53:09.244
Yeah

978
00:53:09.324 --> 00:53:09.354
...

979
00:53:10.924 --> 00:53:14.844
o-o-once you start applying these

980
00:53:14.924 --> 00:53:18.744
sensitivity tests, if you like, though th- th-- all I've done is

981
00:53:18.764 --> 00:53:21.424
indicative. I'm not saying I've got anything right-

982
00:53:21.464 --> 00:53:21.504
Yeah

983
00:53:21.584 --> 00:53:22.714
... or anything. I think you understand that.

984

00:53:22.714 --> 00:53:26.304

But, you know, once you start applying indicative sensitivity tests

985

00:53:26.664 --> 00:53:29.384

to that difference between the abated and the

986

00:53:29.464 --> 00:53:33.164

unabated, then the gain also

987

00:53:33.304 --> 00:53:36.844

starts to get less. We'll, we'll come back to that, if we may, at four point

988

00:53:37.244 --> 00:53:38.884

two, but I just wanted to sort of put forward-

989

00:53:38.904 --> 00:53:39.134

Again

990

00:53:39.134 --> 00:53:40.364

... a reference to that.

991

00:53:40.404 --> 00:53:41.104

I, I, I do understand-

992

00:53:41.124 --> 00:53:41.174

Thank you, sir

993

00:53:41.174 --> 00:53:43.634

... what you're saying, and I understand about the EIA process and the, and the,

994

00:53:43.644 --> 00:53:47.104

and the sensitivity testing and the of, of, of the scope of that we do.

995

00:53:47.184 --> 00:53:48.984

Similarly, yesterday we, we ha- we had a

996

00:53:50.084 --> 00:53:53.564

hearing on, on flood risk, and, you know, it's a, it's a very similar situation.

997

00:53:53.584 --> 00:53:56.524

There's, there's huge uncertainty into future sea level rise.

998

00:53:56.544 --> 00:53:59.134

We have to draw the line somewhere and make an assumption about what we think is

999

00:53:59.164 --> 00:54:03.024

the reasonable worst case. But with the acknowledgement that there's a residual

1000

00:54:03.084 --> 00:54:05.704

risk that we may have made those assumptions incorrectly.

1001

00:54:05.724 --> 00:54:09.584

For me, this feels very similar. There is an approved national,

1002

00:54:09.944 --> 00:54:13.384

international approach on how to make an assessment, but there's an acknowledgement

1003

00:54:13.424 --> 00:54:17.284

that some of those allowances that are used in those assessments may be

1004

00:54:17.324 --> 00:54:20.684

incorrect in the future. So I'm going to move on to carbon capture now, if I can.

1005

00:54:20.724 --> 00:54:24.194

Just finally address the comments that you raised to me that your, your, as it's,

1006

00:54:25.844 --> 00:54:27.924

sorry, y- climate

1007

00:54:27.984 --> 00:54:31.856

emergency science lawAre concerned that the ninety-five

1008

00:54:31.976 --> 00:54:35.696
percent assessed capture rate is not secured within the development

1009
00:54:35.756 --> 00:54:39.406
consent order, and that there is a concern that emissions may...

1010
00:54:39.436 --> 00:54:43.356
Or the, the use of an unabated plant may exceed that.

1011
00:54:43.366 --> 00:54:46.856
I appreciate what we talked about earlier with the upstream emissions and how you

1012
00:54:46.896 --> 00:54:50.436
were going to... The assumptions you made about five percent

1013
00:54:50.856 --> 00:54:54.756
being ineffectual, but if we could just touch on that topic, please, about

1014
00:54:54.856 --> 00:54:58.756
how you can reassure that you are applying

1015
00:54:58.816 --> 00:54:59.736
for a low carbon

1016
00:55:01.196 --> 00:55:02.316
c-carbon capture plant

1017
00:55:03.236 --> 00:55:05.176
and that you're going to actually use it.

1018
00:55:05.216 --> 00:55:08.716
I think we al-already touched on it in previous DCO hearings, but if we could just

1019
00:55:08.756 --> 00:55:11.766
very shortly go back over that and say how it's secured that it will be

1020
00:55:11.896 --> 00:55:12.986
used.

1021

00:55:14.176 --> 00:55:15.766

James Straughan for the applicant.

1022

00:55:15.836 --> 00:55:19.676

Uh, I, I'm hoping we can deal with this quite shortly.

1023

00:55:20.236 --> 00:55:23.996

Dr Boswell, in his initial representations, made

1024

00:55:24.076 --> 00:55:27.056

reference to some previous consents

1025

00:55:27.136 --> 00:55:30.436

where, this issue had been

1026

00:55:30.476 --> 00:55:34.296

raised, and i-in response, we have

1027

00:55:34.336 --> 00:55:38.216

amended the definition in

1028

00:55:38.276 --> 00:55:42.086

the draft DCO of the carbon dioxide

1029

00:55:42.176 --> 00:55:45.466

capture plant, which is now

1030

00:55:45.516 --> 00:55:49.366

defined in equivalent terms to the way

1031

00:55:49.416 --> 00:55:50.416

he requested.

1032

00:55:51.476 --> 00:55:55.116

Uh, ours is refers to the m-m- designed to capture a

1033

00:55:55.176 --> 00:55:57.376

minimum rate of ninety-five percent.

1034

00:55:57.436 --> 00:55:59.896

I think the previous one that he referred to was ninety

1035

00:55:59.936 --> 00:56:03.586

percent. So ours, we've got a h- a

1036

00:56:03.756 --> 00:56:07.686

more challenging design. Um, and we-- that's

1037

00:56:07.736 --> 00:56:10.756

also been reflected then in the way he

1038

00:56:10.816 --> 00:56:14.776

requested, in... Where it

1039

00:56:14.876 --> 00:56:18.556

is? Yes. Tw- article twenty-one. Is that what it was?

1040

00:56:18.596 --> 00:56:20.786

No, it's requirement twenty-one in schedule two.

1041

00:56:21.596 --> 00:56:23.616

Um, reque- as to when the

1042

00:56:24.516 --> 00:56:28.266

work one, number 1A, which is of course the plant, can be,

1043

00:56:28.496 --> 00:56:32.236

brought into commercial use without the other works, and that

1044

00:56:32.316 --> 00:56:35.196

follows the same request. So in a

1045

00:56:35.236 --> 00:56:39.096

nutshell, unless I'm mistaken, the, the thing that he

1046

00:56:39.136 --> 00:56:40.956

requested has been done.

1047

00:56:41.016 --> 00:56:42.676

Okay. Thank you. Thank you for that.

1048

00:56:42.756 --> 00:56:46.606

Uh, Dr Boswell, have you, obviously some, you know, appreciate we're,

1049

00:56:46.616 --> 00:56:50.456

we're very close to the deadline for resubmissions, with this hearing, but I

1050

00:56:50.476 --> 00:56:54.156

don't know if you had noted that and that the applicant is advising me that the

1051

00:56:54.196 --> 00:56:55.396

concern that you raised about

1052

00:56:56.656 --> 00:57:00.596

control of the operation of the facility and, achieving

1053

00:57:00.616 --> 00:57:04.576

the ninety-five percent assessed capture rate is now within the draft,

1054

00:57:04.856 --> 00:57:06.696

development consent order.

1055

00:57:07.556 --> 00:57:11.156

Thank you, sir. Yes. Uh, Dr Andrew Boswell, Climate Emergency

1056

00:57:11.296 --> 00:57:13.396

Science Law. Um,

1057

00:57:14.756 --> 00:57:18.456

first of all, yeah, I pr-I appreciate, what, what Mr

1058

00:57:18.696 --> 00:57:22.196

Straughan has just said, and, thank the applicant for

1059

00:57:22.296 --> 00:57:25.756

changing the draft DCO. Um,

1060

00:57:26.356 --> 00:57:29.536
however, what's been added into the draft

1061
00:57:29.776 --> 00:57:33.736
DCO is only effectively the, the same

1062
00:57:34.176 --> 00:57:35.396
design intent

1063
00:57:36.476 --> 00:57:40.336
as is in the environmental statement and the

1064
00:57:40.416 --> 00:57:44.136
EIA, and it doesn't in any sense

1065
00:57:44.196 --> 00:57:47.856
secure the bounds of the reasonably foreseeable operational

1066
00:57:47.876 --> 00:57:51.166
performance across the project's life's,

1067
00:57:52.936 --> 00:57:55.946
cycle. And I did actually appro--

1068
00:57:56.656 --> 00:58:00.456
a-address this in my submission three, before I

1069
00:58:00.496 --> 00:58:03.806
knew that the, the draft DCO had been changed in fact.

1070
00:58:04.316 --> 00:58:06.785
Uh, bullet, two hundred and

1071
00:58:07.016 --> 00:58:09.376
six, which is page

1072
00:58:09.396 --> 00:58:12.696
forty-four. So essentially I'm just saying it,

1073
00:58:13.496 --> 00:58:15.966
yes, the draft DCO may or may not be changed.

1074

00:58:15.996 --> 00:58:19.936

It has been changed now. Um, but that doesn't establish the

1075

00:58:19.996 --> 00:58:21.936

operational performance,

1076

00:58:22.816 --> 00:58:26.176

which is what we need really for the Rochdale

1077

00:58:26.276 --> 00:58:29.306

and reasonably foreseeable operating

1078

00:58:29.356 --> 00:58:33.116

modes. Um, what I

1079

00:58:33.216 --> 00:58:36.836

also, have drawn attention

1080

00:58:36.996 --> 00:58:40.416

to, i-in, in, in that,

1081

00:58:41.456 --> 00:58:42.936

d-deadline free submission

1082

00:58:43.916 --> 00:58:47.716

is that, my position is that the future environmental

1083

00:58:47.876 --> 00:58:49.176

permitting regime

1084

00:58:50.296 --> 00:58:53.996

won't secure the ninety-five percent capture rate

1085

00:58:54.196 --> 00:58:57.456

either, and that's at, page

1086

00:58:57.496 --> 00:59:00.736

forty-five, and it's covered in

1087

00:59:00.836 --> 00:59:04.696
section, D dot two.

1088
00:59:04.736 --> 00:59:07.456
Several paragraphs on that, I think.

1089
00:59:07.536 --> 00:59:11.476
And also that the, the best available

1090
00:59:11.636 --> 00:59:13.896
technique reliance

1091
00:59:15.136 --> 00:59:18.016
and the UK CCSRC

1092
00:59:18.596 --> 00:59:22.476
document, which come onto as this sort of

1093
00:59:22.496 --> 00:59:26.226
mysterious document you can't find, but, but the, the...

1094
00:59:26.256 --> 00:59:29.976
that reliance, also does not

1095
00:59:30.016 --> 00:59:33.476
secure the ninety-five percent capture rate, and that's at page

1096
00:59:33.656 --> 00:59:37.556
forty-six, section D point three.

1097
00:59:37.956 --> 00:59:41.216
Um, nor does the EU ETS

1098
00:59:42.016 --> 00:59:44.976
secure the ninety-five percent capture rate, and, and that's on page

1099
00:59:45.016 --> 00:59:47.306
forty-seven. Um,

1100
00:59:48.476 --> 00:59:48.586
that's-

1101

00:59:48.586 --> 00:59:52.286

Thank you. I'll, I'll just wanna pull it back to the, the, the examination that

1102

00:59:52.296 --> 00:59:54.276

we're doing here on, on the development consent order.

1103

00:59:54.286 --> 00:59:54.286

Yes.

1104

00:59:54.316 --> 00:59:57.746

So there's, there's, there's only so much within the scope of the, the

1105

00:59:57.796 --> 00:59:59.916

Secretary of State within his development consent order-

1106

00:59:59.936 --> 00:59:59.946

Mm-hmm

1107

00:59:59.946 --> 01:00:01.416

... if he chooses to make it or not.

1108

01:00:01.436 --> 01:00:02.956

Mm-hmm. Mm-hmm.

1109

01:00:02.966 --> 01:00:04.976

Um, the, you know, the environmental permit requirements and all those other

1110

01:00:05.016 --> 01:00:08.016

factors would be, to other legislation.

1111

01:00:08.036 --> 01:00:08.586

Mm-hmm. Mm-hmm.

1112

01:00:08.596 --> 01:00:12.556

But let's pull it back to... I'm gonna go back to the applicant if I can

1113

01:00:12.596 --> 01:00:15.676
to answer that, but what I'm, what I'm very interested in from my
point of view is

1114
01:00:15.716 --> 01:00:15.836
that

1115
01:00:17.036 --> 01:00:20.726
y-you've requested that a, an amendment's been made to the d-draft
development

1116
01:00:20.876 --> 01:00:24.376
consent order. You've made an amendment which secures ninety-five

1117
01:00:24.456 --> 01:00:28.436
percent target for design, is what I'm hearing from,

1118
01:00:28.856 --> 01:00:30.196
Dr Boswell. But

1119
01:00:31.036 --> 01:00:33.196
could you perhaps address his concerns that that doesn't

1120
01:00:33.296 --> 01:00:35.480
actually,

1121
01:00:36.620 --> 01:00:40.480
ensure that in its operation, you actually

1122
01:00:40.520 --> 01:00:42.680
achieve that target.

1123
01:00:43.660 --> 01:00:45.540
So Jane, Jane Strong for the applicant.

1124
01:00:45.600 --> 01:00:48.480
I, I, I said I was hoping it could be dealt with shortly.

1125
01:00:48.560 --> 01:00:52.080
Uh, it appears not. But the, in answer to your

1126

01:00:52.160 --> 01:00:54.960
question, the approach that's been followed is

1127
01:00:55.040 --> 01:00:58.300
identical to that which the Secretary of State,

1128
01:00:58.580 --> 01:01:02.560
required of the Net Zero Teesside order twenty twenty-four, the

1129
01:01:02.600 --> 01:01:06.240
KIB three order of twenty twenty-two, and which

1130
01:01:06.500 --> 01:01:08.600
Dr. Boswell himself requested.

1131
01:01:08.620 --> 01:01:08.800
Yeah.

1132
01:01:08.840 --> 01:01:11.250
And, so that's the first point.

1133
01:01:11.300 --> 01:01:13.920
It-- what he's now requesting is different from what

1134
01:01:14.620 --> 01:01:14.840
Yeah.

1135
01:01:14.900 --> 01:01:16.150
Um, leave-- But

1136
01:01:16.960 --> 01:01:20.380
import-- that is an important point, but leave that aside for one
moment.

1137
01:01:20.420 --> 01:01:24.140
The reason it's expressed in that way is because that is the
appropriate

1138
01:01:24.200 --> 01:01:28.100
way to express it. The design is therefore

1139

01:01:28.120 --> 01:01:31.220
to achieve ninety-five percent. It-- the

1140
01:01:31.680 --> 01:01:35.260
EI-EIA process and the Rochdale envelope should not be

1141
01:01:35.320 --> 01:01:36.620
confused with this

1142
01:01:38.000 --> 01:01:41.900
council of perfection i- of, catering for

1143
01:01:41.960 --> 01:01:45.240
every eventuality that may or may not transpire in reality.

1144
01:01:45.260 --> 01:01:47.760
It's about assessing realistic worst case

1145
01:01:47.900 --> 01:01:51.740
scenarios. In addition, of course, the actual

1146
01:01:51.800 --> 01:01:54.820
operation of the power station once designed, but when it's

1147
01:01:54.900 --> 01:01:58.580
operated, has its own sub additional

1148
01:01:58.660 --> 01:02:01.560
controls, and Dr. Boswell appears is unhappy with those.

1149
01:02:01.580 --> 01:02:05.060
But there, there is the environmental permitting regime

1150
01:02:05.560 --> 01:02:08.940
in addition to the whole question of

1151
01:02:08.980 --> 01:02:12.620
emissions being controlled at a national level to deal with

1152
01:02:12.780 --> 01:02:16.580
national carbon budgets and all sorts of policy levers that the

1153

01:02:16.640 --> 01:02:20.460

Secretary of State can apply as and when power stations and

1154

01:02:20.500 --> 01:02:23.940

many other industry at-- report their actual emissions.

1155

01:02:23.960 --> 01:02:27.760

If they fall below, they-- If they fall below what

1156

01:02:27.780 --> 01:02:30.030

they're required to do, they may breach their permits.

1157

01:02:30.080 --> 01:02:33.140

If even if they're in compliance with their permits, the Secretary of State can

1158

01:02:33.200 --> 01:02:36.380

take a view if emissions are falling below in any

1159

01:02:36.440 --> 01:02:37.580

sector. So

1160

01:02:38.660 --> 01:02:42.100

the notion that this power station should be treated

1161

01:02:42.560 --> 01:02:46.340

differently to any of those, power stations

1162

01:02:46.540 --> 01:02:50.170

for which brackets Dr. Boswell was content because he asked for the

1163

01:02:50.280 --> 01:02:50.540

same-

1164

01:02:50.940 --> 01:02:51.160

Yeah

1165

01:02:51.180 --> 01:02:54.350

... I don't understand, but more importantly, is simply

1166

01:02:54.360 --> 01:02:57.870

not, an, a rational approach here because it's

1167

01:02:57.940 --> 01:03:01.730

not recognizing all of the other limitations that

1168

01:03:01.760 --> 01:03:05.480

apply. And building in a requirement,

1169

01:03:06.060 --> 01:03:09.680

bearing in mind how DCO work, DCO works and criminal sanctions, et

1170

01:03:09.740 --> 01:03:13.300

cetera, in terms of these sorts of emission rates is

1171

01:03:13.360 --> 01:03:17.260

completely inappropriate. What's important is that the

1172

01:03:17.340 --> 01:03:21.320

power station is designed in that way, and so it's designed to

1173

01:03:21.680 --> 01:03:25.480

operate in that way. As to what act-- you know, the actual

1174

01:03:25.560 --> 01:03:28.820

rates that occur in the future, there are me- there are all the other mechanisms

1175

01:03:28.860 --> 01:03:32.720

to, to control that. I j-- Can I-- Uh, I, I don't want to

1176

01:03:33.060 --> 01:03:33.600

reopen

1177

01:03:34.720 --> 01:03:38.080

the earlier topics, but there is a general point relating to this and the earlier

1178

01:03:38.160 --> 01:03:41.750

topics, because Dr. Boswell is making

1179
01:03:42.260 --> 01:03:43.000
points about

1180
01:03:44.060 --> 01:03:45.360
the Rochdale envelope,

1181
01:03:46.700 --> 01:03:50.680
realistic worst case, and full knowledge for EIA

1182
01:03:50.780 --> 01:03:54.460
purposes. That is, I would

1183
01:03:54.520 --> 01:03:58.360
respectfully suggest, misunderstanding what the

1184
01:03:58.820 --> 01:04:01.260
Supreme Court and the law

1185
01:04:01.340 --> 01:04:05.260
recognizes. Realistic worst cases

1186
01:04:05.940 --> 01:04:07.540
are realistic.

1187
01:04:07.560 --> 01:04:07.730
Yes.

1188
01:04:07.760 --> 01:04:10.760
They're not the ones that are unrealistic.

1189
01:04:11.160 --> 01:04:14.820
Likely significant effects are those which are likely, not those
which

1190
01:04:14.880 --> 01:04:18.520
are unlikely. Bearing in mind that that word has a particular

1191
01:04:18.540 --> 01:04:22.340
connotation in European, but you're not there to cover every

1192

01:04:22.500 --> 01:04:25.430
eventuality and every pessimistic scenario.

1193
01:04:26.280 --> 01:04:30.160
You're dealing with realistic worst case scenarios, and in that respect,

1194
01:04:30.220 --> 01:04:33.960
it's also important to remember what Lord Leggett in the Supreme

1195
01:04:34.060 --> 01:04:37.690
Court said in Finch, when you think about the other

1196
01:04:37.720 --> 01:04:40.260
topics we've just been discussing and this one,

1197
01:04:41.260 --> 01:04:42.040
is-- and, and

1198
01:04:42.840 --> 01:04:46.780
just to be clear, conjecture and speculation have no

1199
01:04:46.920 --> 01:04:49.460
role in the EIA process.

1200
01:04:49.480 --> 01:04:49.590
Mm-hmm.

1201
01:04:49.820 --> 01:04:53.780
And using the Finch judgment on whatever you're looking at, effects

1202
01:04:53.899 --> 01:04:57.680
or assessment, in order to say you, you have to

1203
01:04:57.760 --> 01:05:00.660
cover all the uncertainties in the

1204
01:05:00.700 --> 01:05:04.520
world, all the speculative crystal ball

1205
01:05:04.600 --> 01:05:08.400

gazing to include in an ES, is

1206

01:05:08.420 --> 01:05:12.320

precisely what was not, precisely what Finch was trying to

1207

01:05:12.380 --> 01:05:15.980

avoid. As it happened in that case, there were established

1208

01:05:16.460 --> 01:05:19.720

knows as to what a, a barrel of oil would

1209

01:05:20.000 --> 01:05:22.220

generate in terms of emissions if you burnt it.

1210

01:05:23.140 --> 01:05:26.980

If you apply that to what we've been discussing, you're automatically

1211

01:05:27.020 --> 01:05:30.500

into the world of speculation, in

1212

01:05:30.540 --> 01:05:34.340

addition to the fact that there is no benchmark for,

1213

01:05:34.380 --> 01:05:37.210

for, for assessing those,

1214

01:05:38.100 --> 01:05:39.940

speculative figures. And

1215

01:05:40.880 --> 01:05:44.680

I, I think you will be assisted in that

1216

01:05:44.740 --> 01:05:48.680

respect by considering the more recent litigation applying

1217

01:05:48.820 --> 01:05:49.240

Finch

1218

01:05:50.140 --> 01:05:53.600

in the aviation sector, where a very similar issue arose.

1219

01:05:53.640 --> 01:05:57.400

How do you deal with non-CO2 emissions generated by aircraft-

1220

01:05:57.580 --> 01:05:57.700

Mm-hmm

1221

01:05:57.880 --> 01:06:01.420

... where there are no carbon budgets for them, and they're very

1222

01:06:01.520 --> 01:06:05.160

difficult to assess, but there's no doubt they occur.

1223

01:06:05.200 --> 01:06:08.960

And the courts most recently have said it's a legitimate thing for the

1224

01:06:09.000 --> 01:06:12.960

Secretary of State applying the Finch process to say,

1225

01:06:12.969 --> 01:06:16.820

"Well, if I haven't got a benchmark, it's not in my carbon budget, I could

1226

01:06:16.940 --> 01:06:20.790

generate a f- notional figure, but what on earth am I gonna do with it, because I

1227

01:06:20.840 --> 01:06:24.240

can't assess its significance to the wider,

1228

01:06:24.540 --> 01:06:28.520

effects on greenhouse gases?" And that's precisely what's happening in

1229

01:06:28.540 --> 01:06:29.700

this discussion here.

1230

01:06:29.720 --> 01:06:29.830

Yeah.

1231

01:06:29.900 --> 01:06:32.940

Apologize, that's a slight digression for what you actually asked me, but I think

1232

01:06:32.980 --> 01:06:36.700

it's important to, to bear that in mind when you're thinking about what

1233

01:06:36.760 --> 01:06:38.140

questions you're going to formulate.

1234

01:06:38.672 --> 01:06:42.662

Thank you. Uh, yes, I-I'm drawing it back to the topic question, but I

1235

01:06:42.692 --> 01:06:46.312

do appreciate, what, what we're, the, the areas we're going off into and the

1236

01:06:46.352 --> 01:06:48.212

points of, conjecture and what have you.

1237

01:06:48.632 --> 01:06:52.432

I'm incredibly, unfortunately to my sins, familiar with reasonable

1238

01:06:52.812 --> 01:06:56.392

worst case scenario prediction and the legislation around

1239

01:06:56.432 --> 01:07:00.402

de-defending that for various, national incidents, and also

1240

01:07:00.432 --> 01:07:03.212

the, the percentile distributions of other ones to be considered within the

1241

01:07:03.232 --> 01:07:07.082

Rochdale envelope. So I, I am happy about what we need to look at and also what is

1242

01:07:07.152 --> 01:07:10.112

reasonable to consider and what is not reasonable.

1243

01:07:10.412 --> 01:07:14.212
I, I, I was specifically looking here about, the

1244
01:07:14.272 --> 01:07:17.992
action of how do we ensure that this plant operates in the way that it is designed.

1245
01:07:18.092 --> 01:07:21.612
I think we've touched on quite a few topics there that are outside of the remit of

1246
01:07:21.632 --> 01:07:25.572
this examination, and, and I'm happy now to move on to item

1247
01:07:25.652 --> 01:07:29.382
four point two, which is the proposed development's potential contribution to

1248
01:07:29.452 --> 01:07:32.842
mitigating for climate effects. So what I'm really looking here is earlier in four

1249
01:07:32.972 --> 01:07:33.572
point one,

1250
01:07:34.452 --> 01:07:35.232
I was looking at

1251
01:07:36.332 --> 01:07:40.292
what effect does this proposed development have on making

1252
01:07:40.352 --> 01:07:44.192
climate change worse. What I'm interested here in four

1253
01:07:44.292 --> 01:07:45.992
point two is, what

1254
01:07:46.972 --> 01:07:50.372
effect could this proposed development have on making climate change

1255
01:07:50.492 --> 01:07:54.472
better, if any? So if I can move to the applicant, please, to, begin

1256

01:07:54.632 --> 01:07:57.412

and just give me your update on that.

1257

01:07:57.452 --> 01:07:59.352

Ben Murray.

1258

01:08:01.392 --> 01:08:03.652

For the applicant. Yes, sir. Thank you.

1259

01:08:03.692 --> 01:08:06.552

As we've already alluded to, the role of this

1260

01:08:07.232 --> 01:08:11.172

installation is to provide low carbon dispatchable power

1261

01:08:11.252 --> 01:08:14.572

in s- in support of the, the national grid to maintain

1262

01:08:15.612 --> 01:08:18.112

a, a resilient power supply.

1263

01:08:18.213 --> 01:08:21.522

Um, in that capacity, as we've already

1264

01:08:21.692 --> 01:08:25.472

mentioned, our contention is that it will explicitly

1265

01:08:25.482 --> 01:08:28.222

displace a higher carbon unabated

1266

01:08:28.413 --> 01:08:31.742

gas-fired combined cycle gas turbine that is

1267

01:08:31.793 --> 01:08:35.772

currently serving that same purpose in maintaining

1268

01:08:36.152 --> 01:08:39.432

the s- accurate supply in the national grid.

1269

01:08:39.492 --> 01:08:42.992
So by virtue of the lower scope one

1270
01:08:43.052 --> 01:08:46.713
emissions, irrespective of what's happening upstream, scope

1271
01:08:46.753 --> 01:08:49.452
three, which as we've noted applies equally to-

1272
01:08:49.492 --> 01:08:49.652
Yeah

1273
01:08:49.663 --> 01:08:53.512
... all users of natural gas, the

1274
01:08:53.552 --> 01:08:54.392
carbon capture plant

1275
01:08:55.432 --> 01:08:59.293
guarantees that this has a lower scope one

1276
01:08:59.373 --> 01:09:02.992
emissions than the existing unabated plant that we contend it

1277
01:09:03.032 --> 01:09:06.432
will displace by virtue of being earlier in the merit

1278
01:09:06.492 --> 01:09:08.413
order.

1279
01:09:08.472 --> 01:09:10.913
Thank you. Yeah, so just again, in my head so I understand

1280
01:09:12.293 --> 01:09:14.932
part upstream emissions now, we're saying

1281
01:09:15.172 --> 01:09:18.532
that, or, or you're contesting that

1282
01:09:22.352 --> 01:09:26.272
when someone decides they want to sp- switch on some dispatchable

power, the

1283

01:09:26.312 --> 01:09:29.512

priority will go to your site over an u-unabated site because it is

1284

01:09:29.552 --> 01:09:33.472

abated, and therefore, whilst you will

1285

01:09:33.532 --> 01:09:37.512

still be emitting, you'll be emitting less than a comparable site

1286

01:09:38.272 --> 01:09:42.213

of gas fired. Um, I just wanted to just

1287

01:09:42.293 --> 01:09:46.253

double-check. I understand that you could make an argument, "Well, that's

1288

01:09:46.272 --> 01:09:49.861

not as good as a solar farm or as good as a nuclear power station." I, I, I don't

1289

01:09:49.892 --> 01:09:52.972

want to go down that route. I'm happy that I understand that that's could always be

1290

01:09:53.132 --> 01:09:53.492

argued.

1291

01:09:55.092 --> 01:09:59.032

I wanted to check if there is any other benefit I am missing

1292

01:09:59.072 --> 01:10:02.712

that this plant could offer. So, is there some

1293

01:10:02.772 --> 01:10:06.712

way that, you know, are you act- you're not taking carbon dioxide out

1294

01:10:06.732 --> 01:10:09.252

of the atmosphere and scrubbing it for others. You're not doing anything like that.

1295

01:10:09.272 --> 01:10:13.232

There's nothing I'm missing here that it, it also mitigates for

1296

01:10:13.272 --> 01:10:15.532

the wider climate change international

1297

01:10:15.572 --> 01:10:18.012

effects.

1298

01:10:19.172 --> 01:10:23.112

It's just less smoky than a, an, an older plant, if

1299

01:10:23.132 --> 01:10:23.852

that makes sense.

1300

01:10:24.852 --> 01:10:26.112

Sorry to put it simply, but-

1301

01:10:27.052 --> 01:10:28.712

Ja-James Strong for the applicant.

1302

01:10:28.772 --> 01:10:32.332

I, I don't know whether th-this comes within your category

1303

01:10:33.132 --> 01:10:34.361

of,

1304

01:10:36.812 --> 01:10:40.532

what you're considering, but by virtue of being

1305

01:10:40.572 --> 01:10:43.072

a, a dispatchable power station,

1306

01:10:44.412 --> 01:10:48.392

it-- we are facilitating the shift to low carbon

1307

01:10:48.532 --> 01:10:49.052

usage

1308

01:10:50.252 --> 01:10:53.252
in the wider population because

1309
01:10:54.392 --> 01:10:56.892
renewables, for example, cannot

1310
01:10:57.572 --> 01:11:00.692
accommodate, by virtue of their nature, every power

1311
01:11:00.772 --> 01:11:03.972
event. I'm using the wrong tech-logical term.

1312
01:11:04.012 --> 01:11:04.432
That's okay.

1313
01:11:04.472 --> 01:11:08.312
So i- and that's of course recognized in policy,

1314
01:11:08.392 --> 01:11:10.312
but it is a benefit nonetheless-

1315
01:11:10.332 --> 01:11:10.751
Yeah

1316
01:11:10.762 --> 01:11:14.012
... because it enables users or consumers or

1317
01:11:14.052 --> 01:11:17.972
indeed, anyone taking this power to become

1318
01:11:18.552 --> 01:11:21.872
low carbon and to therefore benefit climate change.

1319
01:11:21.912 --> 01:11:25.542
So that is a s- a separate but a, a

1320
01:11:25.542 --> 01:11:29.202
additional climate change benefit of dispatchable

1321
01:11:29.312 --> 01:11:29.992
power.

1322

01:11:30.052 --> 01:11:32.692

Thank you. So that's the bit, that's exactly the sort of direction I was just

1323

01:11:32.712 --> 01:11:35.532

trying to see. Is there any benefits that I'm missing of this project

1324

01:11:36.152 --> 01:11:39.832

that, that we haven't alluded to? And I think what, again, trying to summarize it

1325

01:11:39.852 --> 01:11:43.052

in my head very simply again, what you're saying is that we

1326

01:11:43.092 --> 01:11:46.542

have... The, the country is moving

1327

01:11:46.992 --> 01:11:50.522

or trying to move to a lower carbon technology power

1328

01:11:50.632 --> 01:11:53.842

production system. Some of that, solar, wind,

1329

01:11:54.872 --> 01:11:57.512

has not the ability to take the peaks and troughs.

1330

01:11:57.532 --> 01:12:01.412

By the construction of this proposed development, you'll be able to smooth

1331

01:12:01.492 --> 01:12:05.422

out those troughs and help make the other

1332

01:12:05.452 --> 01:12:08.712

stuff ha-happen as well, simplistically.

1333

01:12:08.732 --> 01:12:12.592

If, if it wasn't for you being able to fill in the blanks, they might not be

1334

01:12:12.612 --> 01:12:14.132
able to happen.

1335

01:12:14.232 --> 01:12:17.252
Ye- y-yes. Uh, it's James Strong for the applicant.

1336

01:12:17.632 --> 01:12:20.372
In, in short, yes. Uh, the, the, the

1337

01:12:20.532 --> 01:12:24.192
shift to, a low

1338

01:12:24.352 --> 01:12:24.852
carbon

1339

01:12:25.772 --> 01:12:29.632
en-environment necessarily calls for greater

1340

01:12:29.712 --> 01:12:33.672
electricity reliance and, but within that,

1341

01:12:33.712 --> 01:12:37.432
the demand for electricity and the peaks and troughs you

1342

01:12:37.492 --> 01:12:40.572
are, you're identifying become more problematic.

1343

01:12:40.592 --> 01:12:40.812
Yeah.

1344

01:12:40.852 --> 01:12:44.372
And so dispatchable power offers that ability

1345

01:12:44.736 --> 01:12:48.516
Necessary ability to deal with what, for example, renewables will be

1346

01:12:48.576 --> 01:12:51.966
unable to do as the demand for

1347

01:12:51.996 --> 01:12:55.516

electricity increases because of its low

1348

01:12:55.596 --> 01:12:58.686

carbon nature. Um,

1349

01:13:00.516 --> 01:13:02.716

thank you. That's great. Thank you. Um, Dr.

1350

01:13:02.756 --> 01:13:04.976

Boswell, I know you want to come in on item four point two.

1351

01:13:04.996 --> 01:13:08.816

Would you like to, raise your point now, please?

1352

01:13:09.756 --> 01:13:13.036

Yes. Dr. Andrew Boswell, Climate Emergency Science

1353

01:13:13.216 --> 01:13:14.956

Law. Um,

1354

01:13:16.396 --> 01:13:18.096

first of all,

1355

01:13:20.516 --> 01:13:22.696

let's say the, the,

1356

01:13:22.776 --> 01:13:26.536

um... What the applicant is

1357

01:13:26.576 --> 01:13:27.836

talking about

1358

01:13:28.796 --> 01:13:32.756

is, is effectively plate twenty-two,

1359

01:13:33.776 --> 01:13:36.836

which I think is on somewhere like page thirty-one, thirty-two of

1360

01:13:36.896 --> 01:13:40.196

the chapter twenty. Now,

1361

01:13:41.396 --> 01:13:43.976

when you actually apply

1362

01:13:45.136 --> 01:13:49.076

the uncertainties we've been talking about to the data in that

1363

01:13:49.175 --> 01:13:49.696

chart,

1364

01:13:50.536 --> 01:13:53.635

what you actually get is, is much smaller

1365

01:13:53.696 --> 01:13:57.476

gains f-of the abated

1366

01:13:58.016 --> 01:14:01.566

CCS system over the unabated. Um,

1367

01:14:02.756 --> 01:14:06.016

just to give you an i-idea of

1368

01:14:06.136 --> 01:14:08.076

that, um-

1369

01:14:08.116 --> 01:14:09.676

Sorry, can I just ask, just follow up on that?

1370

01:14:09.696 --> 01:14:12.216

We, we, we just had a discussion a moment ago where you were saying you're trying

1371

01:14:12.256 --> 01:14:16.036

to secure the ninety-five percent operation of the abated plant.

1372

01:14:16.076 --> 01:14:19.436

You're now suggesting that potentially they don't need to run abated

1373

01:14:20.356 --> 01:14:22.326

to get the same... I, I, I think we need to...

1374

01:14:22.356 --> 01:14:25.996

I, I'm very clearly asking a question here about can you define to

1375

01:14:26.056 --> 01:14:29.816

me, do you have an opinion on whether this plant

1376

01:14:30.816 --> 01:14:33.976

will have a wider mitigating impact on climate change?

1377

01:14:34.036 --> 01:14:35.456

I d- I don't want to go into the detail again.

1378

01:14:35.476 --> 01:14:36.106

I'm, I'm happy to-

1379

01:14:36.116 --> 01:14:36.126

Yeah

1380

01:14:36.126 --> 01:14:39.856

... do that outside of this hearing, which is a, a, a, a vocal, you know,

1381

01:14:39.916 --> 01:14:40.296

hearing.

1382

01:14:40.316 --> 01:14:40.676

Mm-hmm.

1383

01:14:40.756 --> 01:14:42.576

But if you can highlight to me that you think

1384

01:14:43.376 --> 01:14:46.756

it does or it doesn't, that would be very useful.

1385

01:14:47.556 --> 01:14:48.936

Um,

1386

01:14:51.256 --> 01:14:52.855

I f-

1387

01:14:53.956 --> 01:14:57.425

I, I th- I, I can reply to that. Um,

1388

01:14:58.376 --> 01:15:02.016

I think it's best to reply to it because I think we're getting out into sort of

1389

01:15:02.076 --> 01:15:05.916

policy areas. And I have tried to, in everything I've

1390

01:15:05.976 --> 01:15:09.425

submitted, stay absolutely close to the environmental

1391

01:15:09.496 --> 01:15:10.765

impact assessment

1392

01:15:11.576 --> 01:15:14.265

and what's in-involved for that, because that's

1393

01:15:14.396 --> 01:15:17.876

essentially, what I'm, what I'm

1394

01:15:17.936 --> 01:15:21.516

a-addressing in, in the chapter twenty, and I believe what the chapter

1395

01:15:21.616 --> 01:15:24.856

twenty is. So, you know,

1396

01:15:26.306 --> 01:15:29.396

I would raise issues like, you know, this is a thirty-year

1397

01:15:29.536 --> 01:15:33.106

project, and it's, locking in

1398

01:15:33.176 --> 01:15:36.676

longer, you know, fossil fuel-based

1399

01:15:36.756 --> 01:15:39.496

systems for longer than is necessary.

1400

01:15:39.516 --> 01:15:43.316

But, you know, all these are very, qualitative

1401

01:15:43.476 --> 01:15:46.536

arguments, and they're sort of policy type arguments.

1402

01:15:46.546 --> 01:15:49.796

I, I'm happy to engage in that, but I don't think it's the

1403

01:15:49.896 --> 01:15:52.756

issue here in front of the

1404

01:15:52.796 --> 01:15:56.596

examination. If, if you, if, if you don't mind me saying that

1405

01:15:56.636 --> 01:15:57.866

respectfully, sir.

1406

01:15:57.876 --> 01:15:59.696

Yeah, no, no. Okay. Understand. So-

1407

01:15:59.716 --> 01:16:03.076

Um, and what I would like to carry on actually and say that the,

1408

01:16:03.116 --> 01:16:06.716

the, the, um... What the applicant said about the

1409

01:16:06.776 --> 01:16:09.876

plate twenty, dash two

1410

01:16:10.796 --> 01:16:14.555

is the, the purpose of it is, and I'm reading actually verbatim from,

1411

01:16:15.896 --> 01:16:18.356

the, the app- the, the APP 0

1412

01:16:18.416 --> 01:16:22.076

fifty-eight, the, the climate change chapter twenty

1413

01:16:22.536 --> 01:16:26.176

at twenty point six forty-two, says to

1414

01:16:26.256 --> 01:16:30.176

quantify and contextualize the net benefit of the proposed

1415

01:16:30.196 --> 01:16:33.956

development. So that's what we're, we're talking about, wh-whether there's a net

1416

01:16:33.996 --> 01:16:37.736

benefit or not. And, the, the operational carbon

1417

01:16:37.796 --> 01:16:41.076

intensity value has been calculated and compared to the carbon

1418

01:16:41.136 --> 01:16:44.116

intensity over existing unabated

1419

01:16:44.176 --> 01:16:47.736

CCGT and the UK, grid

1420

01:16:47.816 --> 01:16:51.456

average. Now, I'll submit further information on this.

1421

01:16:51.476 --> 01:16:54.316

And as I say, my-- once you apply the

1422

01:16:54.356 --> 01:16:58.296

uncertainties, the numbers are different to what the applicant's

1423

01:16:58.336 --> 01:17:01.256

getting i-in, in a disfavorable way.

1424

01:17:01.296 --> 01:17:04.396

But what I wanted to point out about this

1425

01:17:04.476 --> 01:17:08.416

exercise in itself, and

1426

01:17:08.476 --> 01:17:11.956

if I may re-refer you to the Net Zero Teesside

1427

01:17:11.996 --> 01:17:15.616
decision letter, and that's Rep one 0

1428

01:17:15.656 --> 01:17:18.736
seventy-nine. I submitted it as an

1429

01:17:18.776 --> 01:17:22.196
appendix, at, at deadline one.

1430

01:17:22.296 --> 01:17:26.256
Um, on page fifteen, and it's

1431

01:17:26.296 --> 01:17:30.136
paragraph four point three five. Now, I f- I, I'll

1432

01:17:30.176 --> 01:17:33.276
read it in, in entirety if I may. Um-

1433

01:17:33.296 --> 01:17:35.446
No, that's fine. I, I can read that later because that's-

1434

01:17:35.456 --> 01:17:35.586
Okay

1435

01:17:35.676 --> 01:17:37.876
... that's exactly the point. The point of this, this hearing is
very much for it

1436

01:17:37.916 --> 01:17:40.576
to be vocal and have a discussion. It-- I, I will pick that up
later-

1437

01:17:40.586 --> 01:17:40.586
Okay

1438

01:17:40.586 --> 01:17:41.476
... and read that. I can assure you.

1439

01:17:41.496 --> 01:17:44.256
Well, what I... Can I just summarize what that says?

1440
01:17:44.316 --> 01:17:44.836
It says-

1441
01:17:44.856 --> 01:17:45.156
Please do

1442
01:17:45.476 --> 01:17:49.316
... o-on a similar exercise being carried out for the Net Zero

1443
01:17:49.456 --> 01:17:51.766
Teesside application,

1444
01:17:52.816 --> 01:17:56.496
that, the, the, the, the examining

1445
01:17:56.536 --> 01:17:57.336
authority

1446
01:17:58.136 --> 01:18:01.536
said, that they did not consider it viable

1447
01:18:02.136 --> 01:18:05.696
to use unmitigated emissions as a baseline any

1448
01:18:05.756 --> 01:18:09.696
longer. And that, that, then the Secretary

1449
01:18:09.736 --> 01:18:13.576
of State agreed, noting that the proposed development

1450
01:18:13.586 --> 01:18:17.346
would, in that case, would emit approximately twenty megatons of

1451
01:18:17.436 --> 01:18:21.346
CO2 during its operational life. The environmental statement on this
one is

1452
01:18:21.376 --> 01:18:22.506
saying forty-two-

1453

01:18:22.696 --> 01:18:26.256

I, I'm sorry. I think we are going back to the original point about emissions

1454

01:18:26.556 --> 01:18:27.356

and, and

1455

01:18:29.396 --> 01:18:33.296

its contribution towards worsening climate change, and we, and we're not on

1456

01:18:33.356 --> 01:18:36.096

that item anymore. I'm looking at can you help me

1457

01:18:37.136 --> 01:18:39.796

identify any way in which this project

1458

01:18:41.116 --> 01:18:44.316

helps reduce the risks of future climate change?

1459

01:18:44.326 --> 01:18:47.406

And I think it, it's simply I'm just trying to understand if I missed something.

1460

01:18:47.616 --> 01:18:51.416

I, I, I completely get that you think that some of the assumptions about the carbon

1461

01:18:51.476 --> 01:18:55.356

use and intensity of the site may have been underestimated by the applicant or not.

1462

01:18:55.376 --> 01:18:55.616

Mm-hmm.

1463

01:18:55.636 --> 01:18:58.456

And I, I appreciate, and again, looking at, you know, the plates you're referring

1464

01:18:58.576 --> 01:19:02.172

me to, theIt's unreasonable to use

1465

01:19:02.752 --> 01:19:05.672
unmitigated, emission sites and all that.

1466
01:19:05.692 --> 01:19:09.482
But I, I'm actually really interested in four point two on, is there anything this

1467
01:19:09.532 --> 01:19:09.872
site

1468
01:19:10.792 --> 01:19:12.212
proposed development does

1469
01:19:13.332 --> 01:19:16.932
to reduce the risk of future climate change? If, if the answer's no, that's fine.

1470
01:19:16.972 --> 01:19:17.712
Or if there's actually-

1471
01:19:17.732 --> 01:19:18.382
Yes, yes

1472
01:19:18.432 --> 01:19:19.462
... it's, it's, it's these other things. That's, that's my experience.

1473
01:19:19.462 --> 01:19:22.252
No, no, my opinion is, so it's,

1474
01:19:23.392 --> 01:19:25.752
Dr. Andrew Boswell, Climate Change Science Law.

1475
01:19:25.792 --> 01:19:26.052
My

1476
01:19:26.992 --> 01:19:30.862
answer is that taken in the round and looking

1477
01:19:30.892 --> 01:19:34.772
at many, many factors, you know, which I have done, you know, for, for

1478

01:19:35.052 --> 01:19:38.732
many years actually, no. No.

1479

01:19:38.792 --> 01:19:39.112
Okay.

1480

01:19:39.121 --> 01:19:42.972
I- I- it, it is not a benefit in the current situation to

1481

01:19:43.012 --> 01:19:46.702
progress down the route of fossil fuel-based carbon capture and

1482

01:19:46.752 --> 01:19:50.492
storage, and I do distinguish that from other uses

1483

01:19:50.632 --> 01:19:54.492
of carbon capture and storage. But fossil fuel carbon

1484

01:19:54.572 --> 01:19:57.432
capture and storage, I do not personally think

1485

01:19:57.972 --> 01:20:01.782
bring benefits in tackling climate change at this

1486

01:20:01.812 --> 01:20:03.372
moment in time.

1487

01:20:03.392 --> 01:20:04.422
Thank you. That's, that's, that's actually done.

1488

01:20:04.422 --> 01:20:06.042
So that's a shame to end on that. But can I just-

1489

01:20:06.152 --> 01:20:06.502
Yeah. Thank you for that

1490

01:20:06.502 --> 01:20:10.312
... cover what I was saying, 'cause I think it's an important point
on this

1491

01:20:10.372 --> 01:20:14.112

exercise that's been, that, that's been carried out sort of

1492

01:20:14.692 --> 01:20:18.292

to demonstrate some net gain by the

1493

01:20:18.372 --> 01:20:21.972

applicant. That in the Net Zero Teesside one, the

1494

01:20:22.032 --> 01:20:24.832

Secretary of State didn't accept-

1495

01:20:25.252 --> 01:20:25.352

Yeah

1496

01:20:25.372 --> 01:20:28.892

... that as a, a, a, as a, an appropriate comparator

1497

01:20:29.592 --> 01:20:32.552

and didn't accept it as an appropriate baseline.

1498

01:20:33.052 --> 01:20:34.952

So I'm saying there is a precedent

1499

01:20:35.752 --> 01:20:39.552

that this whole thing we're talking about-

1500

01:20:39.572 --> 01:20:39.622

Yeah

1501

01:20:39.672 --> 01:20:43.572

... the comparison of abated to unabated,

1502

01:20:43.672 --> 01:20:47.572

actually i- i- is not viable. Was-- Is, is

1503

01:20:47.592 --> 01:20:51.572

not valid i- in the EIA discussion, and that's the point I wanted to make.

1504

01:20:51.582 --> 01:20:52.182
And I think it is an important point.

1505
01:20:52.192 --> 01:20:54.152
No, I appreciate it. And I, I apologize.

1506
01:20:54.172 --> 01:20:56.932
I hadn't actually picked that up in your correspondence to me as well, and I do

1507
01:20:56.992 --> 01:21:00.812
note that, and I do note the Secretary of State's opinion on, like I

1508
01:21:00.852 --> 01:21:03.422
said, the Net Zero Teesside, decision.

1509
01:21:03.472 --> 01:21:06.362
All I would say, I'm just gonna give the applicant a, a right to reply if that's

1510
01:21:06.412 --> 01:21:09.952
okay in a moment. But all I would say is, again,

1511
01:21:09.992 --> 01:21:12.692
simplistically to me, and I appreciate what you're saying, that

1512
01:21:14.212 --> 01:21:14.892
it's not

1513
01:21:16.072 --> 01:21:19.832
you, you and the evidence that you provide consider this is not

1514
01:21:19.912 --> 01:21:23.612
reasonable to compare to a traditional plant and its

1515
01:21:23.652 --> 01:21:26.452
emissions and output that has been unabated.

1516
01:21:27.552 --> 01:21:31.092
This is quite a u- good situation. Next door to the proposed

1517

01:21:31.112 --> 01:21:35.072
development is an existing power station.

1518
01:21:35.192 --> 01:21:39.012
I would have thought that provides the most appropriate comparison
in

1519
01:21:39.052 --> 01:21:42.782
this particular instance. I will obviously be writing to the

1520
01:21:42.832 --> 01:21:45.172
Secretary of State, and we will have that discussion.

1521
01:21:45.192 --> 01:21:48.992
But I take on board the evidence you provided to me and, and your
views on that.

1522
01:21:49.432 --> 01:21:51.072
Would the applicant like to come back on any of those

1523
01:21:51.092 --> 01:21:54.652
points?

1524
01:21:54.792 --> 01:21:56.332
Ben Murray,

1525
01:21:57.412 --> 01:22:01.172
for the applicant. Yes, sir. Um, in relation to the

1526
01:22:01.212 --> 01:22:05.152
Net Zero Teesside letter that Dr. Boswell mentions, my

1527
01:22:05.192 --> 01:22:09.152
understanding is that the Secretary of State was making the point

1528
01:22:09.212 --> 01:22:09.432
that

1529
01:22:10.572 --> 01:22:14.472
an unabated power station was-- could not be offered instead of-

1530

01:22:14.512 --> 01:22:14.652
Yeah

1531
01:22:14.752 --> 01:22:17.912
... the abated one, and that's not the argument that was being made
in the

1532
01:22:17.952 --> 01:22:21.232
environmental statement. You know, it is simply an

1533
01:22:21.572 --> 01:22:25.352
uncontrovertible reality that at the moment, unabated gas does

1534
01:22:25.372 --> 01:22:29.312
provide marginal generating capacity, and if unabated gas is

1535
01:22:29.352 --> 01:22:30.652
available, it will,

1536
01:22:31.712 --> 01:22:34.092
displace it in, in the merit

1537
01:22:34.132 --> 01:22:36.672
order.

1538
01:22:37.352 --> 01:22:40.672
Thank you. So again, just for me to summarize before I move on, it's

1539
01:22:40.732 --> 01:22:41.892
just, it's

1540
01:22:42.752 --> 01:22:46.632
not as bad, but not perfect, I think is probably my

1541
01:22:46.952 --> 01:22:50.642
summary of that situation. Um, I'm going to close that item now if
that's okay,

1542
01:22:50.652 --> 01:22:53.472
'cause like I said, that was purely for me looking at have I missed
something that

1543

01:22:53.812 --> 01:22:56.992

is better. Um, Dr. Boswell, I just wanted to pick up.

1544

01:22:57.012 --> 01:22:59.252

Thank you again for all your evidence. I have, I've read it.

1545

01:22:59.292 --> 01:23:02.932

I will be reading it again and again, I think, to get my head around it completely.

1546

01:23:03.012 --> 01:23:03.202

Um,

1547

01:23:04.332 --> 01:23:07.532

I do also note your correspondence that you won't be able to reply at the next

1548

01:23:07.572 --> 01:23:10.412

deadline and acknowledge that and accept that and that, that you'll be hopefully

1549

01:23:10.432 --> 01:23:13.492

trying to get your reply in by deadline five, so thank you for that.

1550

01:23:13.572 --> 01:23:16.511

Um, I-- Can I just review where we are today?

1551

01:23:16.532 --> 01:23:18.742

So I think thank you again for all the-

1552

01:23:18.742 --> 01:23:19.891

Excuse me, sir.

1553

01:23:19.912 --> 01:23:20.182

Yes.

1554

01:23:20.182 --> 01:23:23.602

Uh, can I just, sort of no-notify you really of, of,

1555

01:23:24.312 --> 01:23:27.062

two things? Yeah, I mean, obviously I'll, I'll put in everything

I've said

1556

01:23:27.092 --> 01:23:30.112

today in a submission, and that would be, as you said, for deadline

1557

01:23:30.212 --> 01:23:33.992

five. I also, have a, a, a legal

1558

01:23:34.112 --> 01:23:37.832

submission to make, which, I myself has

1559

01:23:37.892 --> 01:23:41.532

not, have not drawn up. It's been drawn up by lawyers.

1560

01:23:41.632 --> 01:23:45.492

Um, and for the purposes of fairness,

1561

01:23:45.752 --> 01:23:48.652

well, I wo- I wo- wish to put this to you actually, really how you'd like to

1562

01:23:48.692 --> 01:23:51.472

receive it. But I, I mean, I could wait till March the

1563

01:23:52.132 --> 01:23:56.112

31st for deadline four. I'll actually be away

1564

01:23:56.172 --> 01:23:58.412

then, but I, but submit it for then.

1565

01:23:58.452 --> 01:24:01.982

Or for the purposes of fairness, I actually think it would be,

1566

01:24:02.912 --> 01:24:05.372

best for me to submit it as soon as

1567

01:24:05.432 --> 01:24:09.332

is, i- is possible, which, you know, I, I,

1568

01:24:09.412 --> 01:24:11.812

I, I think might be within about a week.

1569

01:24:11.972 --> 01:24:15.832

Um, and I just wanted to put that to you, and I th- you know, that I think it would

1570

01:24:15.872 --> 01:24:18.732

be fair to the, applicants,

1571

01:24:19.492 --> 01:24:23.372

to, to see that, a- as well, as soon as

1572

01:24:23.412 --> 01:24:24.902

possible. So I just wondered-

1573

01:24:25.012 --> 01:24:25.272

Okay. Thank you

1574

01:24:25.392 --> 01:24:27.172

... if you could ask both of you on that.

1575

01:24:27.182 --> 01:24:28.182

So, we, we obviously have the deadlines.

1576

01:24:28.212 --> 01:24:30.502

I'm just gonna go back to the applicant and see what their opinion is on that.

1577

01:24:30.532 --> 01:24:33.192

I'm probably sure they would say the sooner, sooner they can see it is probably

1578

01:24:33.212 --> 01:24:37.032

better. I would probably, rather than waiting for it to be published

1579

01:24:37.072 --> 01:24:40.832

for, in fairness for all parties to see, excuse me, to see it, I'll probably

1580

01:24:41.952 --> 01:24:45.332

log it under an additional submission, which is gonna upset my colleague at the

1581

01:24:45.352 --> 01:24:49.012

back of the room no doubt. But, we will take it as a, a

1582

01:24:49.052 --> 01:24:52.812

submission prior to a deadline and, and, and but just let me just check with

1583

01:24:52.832 --> 01:24:55.772

Mr. Strachan to see if there is, any view there.

1584

01:24:57.160 --> 01:25:00.880

James Strong for the applicant. Yeah, well, as to the principle, yes,

1585

01:25:01.300 --> 01:25:05.280

the earlier the better, and, I'm pleased to

1586

01:25:05.600 --> 01:25:09.400

provide it. It, it-- and, and in that respect, if it's, if

1587

01:25:09.480 --> 01:25:13.120

it's of that nature, then Dr. Boswell can send it directly to us as well

1588

01:25:13.540 --> 01:25:15.800

if, if, if he so chooses.

1589

01:25:15.810 --> 01:25:16.070

Thank you.

1590

01:25:16.160 --> 01:25:19.520

Um, I, I know... I, I mean, it could still be a deadline submission because

1591

01:25:19.620 --> 01:25:23.160

deadlines are just the latest at which you have to submit.

1592

01:25:23.200 --> 01:25:26.260

You can s- theoretically, I know no one does it, but-

1593

01:25:26.300 --> 01:25:26.490

Yeah.

1594

01:25:26.490 --> 01:25:30.440

...submit submissions any time up to that point, and it could be called a

1595

01:25:30.520 --> 01:25:32.330

deadline for submission being submitted early.

1596

01:25:32.380 --> 01:25:36.360

Okay. I'll, I'll, I'll defer to my colleague, see how he'd

1597

01:25:36.410 --> 01:25:39.040

like to handle that receipt. Um, thank you, Dr.

1598

01:25:39.060 --> 01:25:42.400

Boswell, and like I say, thank you again for notifying us of, your absence,

1599

01:25:43.020 --> 01:25:45.600

prior to, during deadline four. Thank you.

1600

01:25:46.900 --> 01:25:47.210

Um,

1601

01:25:48.280 --> 01:25:51.740

thank you. I was gonna just say thank you again for all the support today and the

1602

01:25:51.780 --> 01:25:55.660

review of the actions. Uh, thank you again for your input from the rear of the room

1603

01:25:55.780 --> 01:25:58.900

this morning. That's been very helpful in the landscape and the visual aspects.

1604

01:25:58.980 --> 01:26:02.420

I, I haven't been and visited all of the viewpoints

1605

01:26:02.620 --> 01:26:06.240

yet. Um, I'm going to continue to do so, and the

1606

01:26:06.280 --> 01:26:10.080

additional ones that, that have been highlighted to me,

1607

01:26:10.120 --> 01:26:12.300

including Open Up Farm. Um,

1608

01:26:13.320 --> 01:26:15.720

before I move off on that, is, is there any other business in the room?

1609

01:26:15.730 --> 01:26:18.260

I'm conscious that I've not come to Flintshire at all, and I'm, I'm seeing you

1610

01:26:18.520 --> 01:26:20.090

nodding at me going, "I'd like to intervene," but if...

1611

01:26:20.100 --> 01:26:23.800

Is anybody either in the room or online who'd like to add any additional

1612

01:26:23.880 --> 01:26:27.790

comments, on these topics of landscape, visual amenity, and

1613

01:26:27.840 --> 01:26:31.740

climate change today? No? Okay. Thank you

1614

01:26:31.800 --> 01:26:33.940

again. Thank you for the value input. Thank you, Dr.

1615

01:26:33.960 --> 01:26:37.460

Boswell, for the considerable amount of evidence you've submitted and also your

1616

01:26:37.640 --> 01:26:40.060

support today and at previous hearings.

1617

01:26:40.160 --> 01:26:40.500

Um-

1618

01:26:41.740 --> 01:26:42.370

Thank you, sir.

1619

01:26:42.370 --> 01:26:46.230

Thank you. Um, I think that concludes the business of this f- fourth issue-specific

1620

01:26:46.260 --> 01:26:49.660

hearing. Thank you for, for joining us, and thank you for all the support from all

1621

01:26:49.680 --> 01:26:53.340

your teams. I do appreciate that. Um, I'll close this hearing now and look forward

1622

01:26:53.380 --> 01:26:56.280

to seeing some of you maybe here this afternoon regarding the compulsory

1623

01:26:56.420 --> 01:27:00.340

acquisition hearing, which commences at, fourteen hundred hours,

1624

01:27:00.360 --> 01:27:04.350

two clock. Uh, this hearing is now closed at thirteen oh four

1625

01:27:04.440 --> 01:27:07.280

hours. Deal. Thank you very much.