



## Hearing Transcript

<b>Project:</b>	EN010142 - Tillbridge Solar Project
<b>Hearing:</b>	Issue Specific Hearing 3 (ISH3) – Part 1
<b>Date:</b>	15 January 2025

**Please note:** This document is intended to assist Interested Parties.

It is not a verbatim text of what was said at the above hearing. The content was produced using artificial intelligence voice to text software. It may, therefore, include errors and should be assumed to be unedited.

The video recording published on the Planning Inspectorate project page is the primary record of the hearing.

Generated by event.video

1

00:00:01.315 --> 00:00:05.215

It is now 10:00 AM and the hearing is open.

2

00:00:06.755 --> 00:00:08.415

Uh, we'd like to welcome you all

3

00:00:08.635 --> 00:00:10.775

to this issue specific hearing.

4

00:00:11.605 --> 00:00:14.055

This is the third issue specific hearing

5

00:00:14.395 --> 00:00:16.375

for the Till Bridge Solar Project.

6

00:00:17.435 --> 00:00:20.695

Um, can I just confirm that everyone can hear me clearly?

7

00:00:22.415 --> 00:00:26.385

Good. Uh, could I also confirm with, uh, Mr. Cook

8

00:00:26.415 --> 00:00:29.745

that the live streaming recording has commenced?

9

00:00:29.885 --> 00:00:31.345

Yep. Excellent.

10

00:00:32.085 --> 00:00:33.625

Uh, my name is Luke Simpson

11

00:00:33.725 --> 00:00:37.425

and I've been appointed by the Secretary State as a member

12

00:00:37.425 --> 00:00:40.985

of the panel to examine this application.

13

00:00:41.805 --> 00:00:43.225

I'm now going to ask my colleague

14

00:00:43.225 --> 00:00:45.345

and lead panel member to introduce himself.

15

00:00:47.405 --> 00:00:49.615

Good morning. My name is Nicholas Eley

16

00:00:49.615 --> 00:00:51.895

and I've also been appointed by the Secretary of State

17

00:00:52.595 --> 00:00:54.775

as a member of the panel to examine this application.

18

00:00:56.065 --> 00:00:57.335

Thank you, Mr. Eley.

19

00:00:58.135 --> 00:01:00.055

Together we constitute examining authority

20

00:01:00.235 --> 00:01:01.255

for this application.

21

00:01:01.585 --> 00:01:04.055

We're also joined by Mr. Cook, Mr.

22

00:01:04.455 --> 00:01:05.975

Sedgman and Mr. Hurley

23

00:01:06.155 --> 00:01:08.375

of the Planning Inspectorate case team.

24

00:01:09.395 --> 00:01:11.855

Uh, I'll now deal a few housekeeping matters

25

00:01:11.875 --> 00:01:13.255

for those attending in person.

26

00:01:13.915 --> 00:01:17.055

Uh, could everyone please set all devices

27

00:01:17.235 --> 00:01:20.855

and phones to silent such that we aren't disturbed?

28

00:01:21.555 --> 00:01:25.175

Uh, the toilets are through these doors to my right.

29

00:01:25.595 --> 00:01:28.135

Um, ladies on the left, gents on the right,

30

00:01:28.615 --> 00:01:30.015

disabled toilets are in the middle.

31

00:01:31.375 --> 00:01:35.095

I don't think we're expecting a fire alarm.

32

00:01:35.875 --> 00:01:39.295

Um, but if the fire alarm does go off,

33

00:01:39.995 --> 00:01:42.215

the exits are over to my left.

34

00:01:42.555 --> 00:01:46.355

And, um, we'll convene in the car park.

35

00:01:48.055 --> 00:01:50.755

So this hearing will follow the agenda published on the

36

00:01:51.155 --> 00:01:53.755

National Infrastructure Planning website on the

37

00:01:53.845 --> 00:01:56.635

6th of December, 2024.

38

00:01:57.615 --> 00:01:59.955

Uh, the agenda is examine library

39

00:02:00.475 --> 00:02:03.275

reference EV one double zero five.

40

00:02:04.415 --> 00:02:05.795

It would be helpful if you had a

41

00:02:05.795 --> 00:02:06.915  
copy of this in front of you.

42

00:02:08.055 --> 00:02:10.435  
Um, the agenda is for guidance only,

43

00:02:10.655 --> 00:02:12.835  
and we may add other considerations

44

00:02:12.855 --> 00:02:15.275  
or issues as we progress.

45

00:02:16.775 --> 00:02:19.515  
Uh, for those of you who were not in attendance

46

00:02:19.735 --> 00:02:22.875  
during issue specific hearing two yesterday, we had

47

00:02:22.875 --> 00:02:26.075  
to close the hearing prior to completing the agenda

48

00:02:26.295 --> 00:02:28.675  
to allow time for the room to be set up

49

00:02:29.135 --> 00:02:31.195  
for the second open floor hearing.

50

00:02:32.255 --> 00:02:35.435  
Uh, that said there wasn't much left, uh, to go through,

51

00:02:35.695 --> 00:02:38.315  
and these outstanding issues will be put,

52

00:02:38.315 --> 00:02:40.115  
picked up at items four

53

00:02:40.335 --> 00:02:44.925  
and five on the agenda for this hearing, uh,

54

00:02:44.925 --> 00:02:47.645

which are other matters and action points respectively.

55

00:02:50.845 --> 00:02:52.625

We will conclude the hearing as soon

56

00:02:52.625 --> 00:02:55.065

as all relevant contributions have been made

57

00:02:55.085 --> 00:02:57.705

and all questions asked and responded to.

58

00:02:57.765 --> 00:03:00.285

But if the discussions can't be concluded,

59

00:03:00.635 --> 00:03:03.965

then it may be necessary for us to prioritize some matters

60

00:03:04.105 --> 00:03:07.845

and defer other matters to further written questions.

61

00:03:08.865 --> 00:03:11.685

We will also aim to take regular breaks, uh,

62

00:03:11.685 --> 00:03:13.605

during the hearing, including a lunch break.

63

00:03:14.145 --> 00:03:19.005

Uh, I think we're envisaging 45 minute lunch break at

64

00:03:19.025 --> 00:03:22.085

around quarter past one, something like that.

65

00:03:22.585 --> 00:03:27.035

Um, we'll probably have a break in about an hour and a half.

66

00:03:28.215 --> 00:03:29.475

Uh, we'll see how we progress

67

00:03:29.695 --> 00:03:31.875

and we'll give you plenty of notice of breaks.

68

00:03:33.095 --> 00:03:36.475

So today's hearing is being undertaken in a hybrid way,

69

00:03:36.475 --> 00:03:38.075

which means some of you're present with us

70

00:03:38.665 --> 00:03:40.155

here at the venue, and some

71

00:03:40.155 --> 00:03:43.275

of you are joining us virtually using Microsoft Teams.

72

00:03:44.695 --> 00:03:48.115

Either way, we want to make sure that you have a fair

73

00:03:48.115 --> 00:03:49.755

and equal chance to put across your

74

00:03:49.755 --> 00:03:51.555

points and for us to hear them.

75

00:03:52.915 --> 00:03:56.435

A recording of today's hearing will be made available on the

76

00:03:56.585 --> 00:03:59.035

Till Bridge Solar Project section

77

00:03:59.895 --> 00:04:03.475

of the National Infrastructure Planning website as soon

78

00:04:03.475 --> 00:04:06.515

as practicable after the hearing has closed.

79

00:04:08.215 --> 00:04:09.475

Uh, with that in mind,

80

00:04:09.475 --> 00:04:13.115

please ensure you speak clearly into the microphone stating

81

00:04:13.265 --> 00:04:15.795

your name and who you are representing each

82

00:04:15.825 --> 00:04:17.195

time before you speak.

83

00:04:18.085 --> 00:04:21.155

Could you also ensure that you turn your microphone on

84

00:04:21.155 --> 00:04:22.155

and off accordingly?

85

00:04:22.895 --> 00:04:25.595

If you're not at a table with a microphone, uh,

86

00:04:25.765 --> 00:04:28.275

there should be a roving microphone available.

87

00:04:28.575 --> 00:04:31.475

So please wait for someone to bring one to you.

88

00:04:33.495 --> 00:04:36.555

Uh, a link to the planning inspectors Proceed notice was

89

00:04:36.835 --> 00:04:39.075

provided in the hearing notification.

90

00:04:39.255 --> 00:04:41.875

We therefore assume that everybody is familiar

91

00:04:42.305 --> 00:04:46.715

with this document, which establishes how the personal data

92

00:04:46.775 --> 00:04:49.235

of our customers is handled in accordance

93

00:04:49.235 --> 00:04:52.635

with the principles set out in data protection laws.

94

00:04:53.815 --> 00:04:54.875

If you have any questions



95

00:04:54.895 --> 00:04:57.115  
or concerns about this, then please speak

96

00:04:57.135 --> 00:04:59.675  
to the case team at the back of the room.

97

00:05:01.295 --> 00:05:03.235  
Um, on the subject of privacy,

98

00:05:03.495 --> 00:05:05.995  
we have some questions related to health today.

99

00:05:06.695 --> 00:05:09.395  
In answering these questions, it's very important

100

00:05:10.225 --> 00:05:12.995  
that you do not reveal personal

101

00:05:13.015 --> 00:05:15.835  
and private information pertaining to your health

102

00:05:15.975 --> 00:05:17.355  
or that of anyone else.

103

00:05:17.535 --> 00:05:19.755  
You may talk about health in general terms,

104

00:05:21.015 --> 00:05:23.595  
and if you wish to raise something more specific

105

00:05:23.775 --> 00:05:27.315  
and private, then please do so in writing in order

106

00:05:27.315 --> 00:05:30.035  
that it can be appropriately redacted

107

00:05:30.535 --> 00:05:33.035  
to protect your privacy and, and that of others.

108

00:05:35.295 --> 00:05:37.315

I'm going to now ask those of you who are

109

00:05:38.075 --> 00:05:40.635

participating in today's hearing to introduce yourselves.

110

00:05:40.785 --> 00:05:42.635

When I state your organization's name,

111

00:05:42.965 --> 00:05:45.715

could you introduce yourself, stating your name,

112

00:05:45.935 --> 00:05:46.955

who you represent,

113

00:05:47.055 --> 00:05:49.555

and which agenda item you wish to speak on.

114

00:05:50.335 --> 00:05:52.475

If you're not representing an organization,

115

00:05:52.475 --> 00:05:53.875

please confirm your name,

116

00:05:54.515 --> 00:05:56.435

summarize your interest in the application,

117

00:05:56.575 --> 00:06:00.565

and confirm the agenda item upon which you wish to speak.

118

00:06:02.105 --> 00:06:03.685

Please could everybody also state

119

00:06:03.685 --> 00:06:04.765

how they wish to be addressed.

120

00:06:04.785 --> 00:06:08.405

So Mr. Mrs. Miss, et cetera.

121

00:06:10.075 --> 00:06:12.285

Okay. So could I start with the applicant who will be

122

00:06:12.925 --> 00:06:14.285  
representing the applicant today please?

123

00:06:14.995 --> 00:06:17.205  
Good morning, sir. My name is Alexis Coleman.

124

00:06:17.225 --> 00:06:19.445  
I'm a legal director at Law Firm PIN at Masons.

125

00:06:19.445 --> 00:06:21.205  
And we're the legal advisors for the applicant.

126

00:06:21.665 --> 00:06:24.885  
Um, I expect I will be speaking on, on all agenda items.

127

00:06:25.225 --> 00:06:27.765  
Um, I'm joined by colleagues in PIN at Masons, um,

128

00:06:27.765 --> 00:06:29.565  
Taylor Power and Tom Atkins.

129

00:06:29.565 --> 00:06:32.085  
And I have other, um, experts with me to speak

130

00:06:32.085 --> 00:06:33.965  
to the different agenda items as well.

131

00:06:35.015 --> 00:06:37.365  
Thank you very much. And can I ask

132

00:06:37.465 --> 00:06:40.205  
who will be speaking on behalf of West Lindsay?

133

00:06:40.585 --> 00:06:42.005  
Uh, district council, please?

134

00:06:42.835 --> 00:06:44.685  
Morning, sir. My name is Mr. Samuel.

135

00:06:44.865 --> 00:06:46.245

She, I'm of council instructed

136

00:06:46.245 --> 00:06:47.925  
by West West Lindsay District Council.

137

00:06:48.385 --> 00:06:50.365  
Uh, I'm joined by Mr. Russell Clark.

138

00:06:50.425 --> 00:06:53.005  
And who sits to my right, who's development management team

139

00:06:53.005 --> 00:06:54.285  
manager at West Lindsay.

140

00:06:54.665 --> 00:06:56.165  
And to my left Mr. Alex Blake,

141

00:06:56.175 --> 00:06:57.885  
who's an associate director Atkins.

142

00:06:59.995 --> 00:07:01.485  
Okay, thank you very much. Uh,

143

00:07:01.545 --> 00:07:03.245  
do we have a representative from

144

00:07:03.905 --> 00:07:05.645  
Nottinghamshire County Council?

145

00:07:12.775 --> 00:07:13.915  
No. Okay.

146

00:07:14.775 --> 00:07:16.315  
So who will be speaking on behalf

147

00:07:16.315 --> 00:07:18.435  
of Lincolnshire County Council, please?

148

00:07:19.965 --> 00:07:21.495  
Good morning, sir. Stephanie Hall

149

00:07:21.555 --> 00:07:23.935

and Council instructed by Lincolnshire County Council

150

00:07:24.275 --> 00:07:26.535

to my left is, uh, Mr. Oliver Brown, who's

151

00:07:26.735 --> 00:07:28.015

provided landscape assistance

152

00:07:28.155 --> 00:07:29.815

and, uh, wrote the note appended

153

00:07:29.815 --> 00:07:31.975

to our LIR on Landscape and Visual Effect.

154

00:07:32.315 --> 00:07:33.775

And to my right, uh, is Mr.

155

00:07:33.805 --> 00:07:35.455

Neil McBride, uh, who's head

156

00:07:35.455 --> 00:07:37.295

of planning at Linker account Council. Thank

157

00:07:37.295 --> 00:07:38.295

You. Okay, thank

158

00:07:38.295 --> 00:07:42.565

you very much. I believe we have a

159

00:07:42.565 --> 00:07:46.565

representative from Springfield Parish meeting.

160

00:07:46.705 --> 00:07:50.915

Is that correct? No.

161

00:07:53.425 --> 00:07:56.155

Okay. Uh, who will be representing

162

00:07:56.155 --> 00:07:58.275

and speaking on behalf of 7,000 acres, please?

163

00:08:01.035 --> 00:08:03.665

Thank you, sir. Liz Gar, 7,000 acres,

164

00:08:03.805 --> 00:08:04.825

um, to be dressed as Ms.

165

00:08:04.885 --> 00:08:09.385

Gar. Um, to my immediate left is Mr. Ray Stanfield, um,

166

00:08:09.395 --> 00:08:11.265

he'll be speaking on behalf of 7,000 acres.

167

00:08:11.265 --> 00:08:14.265

And also, excuse me, on the far left is Mr.

168

00:08:14.295 --> 00:08:17.465

Tony Court be also speaking for 7,000 acres as well.

169

00:08:18.125 --> 00:08:21.625

And do you would want to know what items we'll be speaking?

170

00:08:21.975 --> 00:08:24.465

Well, I I sort of assume you'll be, you're not,

171

00:08:25.895 --> 00:08:26.895

Yeah, sorry. You'll speak

172

00:08:26.895 --> 00:08:27.785

from most items.

173

00:08:28.135 --> 00:08:30.065

Yeah, sorry. Yes, I, I will be, but Mr.

174

00:08:30.385 --> 00:08:31.505

Stansfield may have to leave early,

175

00:08:31.965 --> 00:08:34.025

and so we'll be concentrating on health issues.

176

00:08:34.735 --> 00:08:39.455

Okay, thank you. Okay.

177

00:08:39.795 --> 00:08:42.695

Are there any other organizations here today

178

00:08:43.785 --> 00:08:44.875

whom I haven't mentioned?

179

00:08:47.315 --> 00:08:51.945

No, I didn't think so. So, um, we'll move on

180

00:08:51.945 --> 00:08:53.265

to interested parties.

181

00:08:54.265 --> 00:08:57.275

I, so

182

00:09:02.045 --> 00:09:04.765

well, are there any other interested parties

183

00:09:05.185 --> 00:09:06.365

who wish to speak today?

184

00:09:06.665 --> 00:09:08.885

If so, could you raise your hand please?

185

00:09:12.415 --> 00:09:14.225

Okay. Just wait for the microphone, please.

186

00:09:17.235 --> 00:09:19.845

Yeah, I thought I would had registered it's

187

00:09:19.845 --> 00:09:22.565

Carol Montgomery at, uh, g Glenworth resident.

188

00:09:23.425 --> 00:09:25.005

Yes. Okay.

189

00:09:28.435 --> 00:09:29.165

Anybody else?

190

00:09:33.985 --> 00:09:35.515

Okay, excellent. Thank you.

191

00:09:36.445 --> 00:09:38.515

We'll now move on to agenda item two then,

192

00:09:38.515 --> 00:09:39.995

which is the purpose of the hearing.

193

00:09:41.775 --> 00:09:44.555

So this hearing covers environmental matters,

194

00:09:44.765 --> 00:09:48.355

which include health, safety and wellbeing, uh, landscape

195

00:09:48.355 --> 00:09:51.755

and visual impact, noise, biodiversity and ecology,

196

00:09:52.015 --> 00:09:54.155

and the draft development consent order.

197

00:09:55.175 --> 00:09:57.155

And the purpose of this hearing is for us

198

00:09:57.155 --> 00:09:59.915

to get the information we need in order to properly

199

00:09:59.935 --> 00:10:02.355

and effectively examine this application.

200

00:10:03.535 --> 00:10:06.675

Um, the questions which we have are those which we consider

201

00:10:06.675 --> 00:10:10.635

warrant or would benefit from discussion in a hearing

202

00:10:10.785 --> 00:10:13.315

setting as such, just



203

00:10:13.315 --> 00:10:15.635

because we don't mention something, for example,

204

00:10:15.875 --> 00:10:18.115

a particular effect or issue, which you may have raised

205

00:10:18.855 --> 00:10:21.915

in a written representation, it does not mean

206

00:10:21.915 --> 00:10:23.275

that we won't be considering it.

207

00:10:23.535 --> 00:10:26.755

Um, the NIP process is primarily written

208

00:10:27.055 --> 00:10:29.395

and we will be sending out further

209

00:10:29.395 --> 00:10:30.875

written questions in February.

210

00:10:35.685 --> 00:10:38.695

Okay. Okay.

211

00:10:38.735 --> 00:10:40.335

I believe we have a representative from

212

00:10:40.925 --> 00:10:44.055

Bassett Law participating virtually.

213

00:10:44.055 --> 00:10:45.055

Is that correct?

214

00:10:47.145 --> 00:10:48.375

Hello? Yes, that's correct.

215

00:10:48.675 --> 00:10:52.815

Uh, my name's Amanda Broadhead. Uh, Mrs. Amanda Broadhead.

216

00:10:53.115 --> 00:10:54.895

I'm the major projects manager at

217

00:10:54.895 --> 00:10:56.135

Bassett Law District Council.

218

00:11:02.545 --> 00:11:03.435

Okay, thank you very much.

219

00:11:09.015 --> 00:11:11.705

Okay. So in terms of the draft development, consent order

220

00:11:12.485 --> 00:11:15.105

or draft DC0 as we will refer to it,

221

00:11:15.175 --> 00:11:16.785

this is an important document.

222

00:11:17.125 --> 00:11:18.865

Um, the discussion with regard

223

00:11:18.865 --> 00:11:21.985

to the draft DC0 is being held on a without prejudice basis.

224

00:11:22.445 --> 00:11:25.265

So in essence, even if your position is

225

00:11:25.265 --> 00:11:28.545

that development consent should not be granted, um,

226

00:11:29.205 --> 00:11:31.905

and that the Secretary State should not make the DC0,

227

00:11:33.005 --> 00:11:36.465

you can make representations in this hearing on the drafting

228

00:11:36.465 --> 00:11:39.145

of the DC0 without conceding your wider position

229

00:11:39.535 --> 00:11:41.265

that the draft should not be made.

230

00:11:41.815 --> 00:11:43.225  
Just wanted to make that clear.

231

00:11:45.475 --> 00:11:47.895  
So we'll now move on to agenda item three,

232

00:11:48.305 --> 00:11:50.495  
which is environmental matters,

233

00:11:53.285 --> 00:11:56.185  
the first of which is health, safety and wellbeing.

234

00:11:56.245 --> 00:11:58.385  
So I'll pass over to my colleague Mr.

235

00:11:58.975 --> 00:12:01.185  
Eley, who will take you through this agenda item.

236

00:12:01.675 --> 00:12:03.025  
Thank you. Um,

237

00:12:04.535 --> 00:12:06.945  
item three A is health, safety and wellbeing.

238

00:12:07.445 --> 00:12:09.585  
And, um, what I'd like to now look into the issue

239

00:12:09.585 --> 00:12:12.265  
of is the effects of the post development on human health,

240

00:12:12.575 --> 00:12:14.345  
including the long-term wellbeing

241

00:12:14.345 --> 00:12:15.625  
of the adjacent communities

242

00:12:16.325 --> 00:12:18.745  
and the risks presented by the instance related

243

00:12:18.805 --> 00:12:22.265

to battery energy storage systems, uh, working adjacent

244

00:12:22.265 --> 00:12:24.705

to other major hazards and the cumulative effects.

245

00:12:25.525 --> 00:12:28.025

Um, as my colleague said, prior to commencing this session,

246

00:12:28.145 --> 00:12:29.585

I would seek to remind individuals

247

00:12:29.935 --> 00:12:31.785

that your protected characteristics

248

00:12:31.785 --> 00:12:33.425

and issues should be kept private

249

00:12:33.565 --> 00:12:35.345

and not presented at this public open forum,

250

00:12:35.355 --> 00:12:36.585

which is being live streamed.

251

00:12:36.655 --> 00:12:38.705

However, you know, we appreciate,

252

00:12:38.705 --> 00:12:39.785

you may want to raise them to us.

253

00:12:39.785 --> 00:12:41.385

So if the speaker wishes to highlight

254

00:12:41.405 --> 00:12:43.705

to the examining authority, any specific matter

255

00:12:44.135 --> 00:12:45.545

that can be sent to our case team

256

00:12:45.805 --> 00:12:47.665

and we will send, send it in writing

257

00:12:47.685 --> 00:12:49.705

and we will treat it privately in accordance

258

00:12:49.785 --> 00:12:51.585

with general data protection regulations.

259

00:12:52.125 --> 00:12:54.425

And this is especially true when we consider the first item

260

00:12:54.425 --> 00:12:55.825

in this section, which relates

261

00:12:55.825 --> 00:12:57.145

to health impacts on the humans.

262

00:12:58.965 --> 00:13:00.505

So, moving on, I wanted to, uh,

263

00:13:00.705 --> 00:13:03.025

concentrate on the human health impacts and benefits

264

00:13:03.045 --> 00:13:04.945

and including specifically mental health impacts.

265

00:13:05.805 --> 00:13:08.505

Uh, I raised a question in our written questions, uh,

266

00:13:08.705 --> 00:13:09.745

specifically on this issue,

267

00:13:10.365 --> 00:13:11.545

and I note in the reply

268

00:13:11.545 --> 00:13:13.225

that the applicant has taken the approach

269

00:13:14.165 --> 00:13:17.065

to consider specific elements of the schemes individually,

270

00:13:17.155 --> 00:13:19.545

which they believe could affect mental health.

271

00:13:20.045 --> 00:13:22.745

And for example, specifically considering on things like

272

00:13:22.815 --> 00:13:26.545

landscape, visual amenity, noise, access

273

00:13:26.545 --> 00:13:28.385

to open space and employment.

274

00:13:29.285 --> 00:13:31.225

And also note that the applicant considers

275

00:13:31.225 --> 00:13:34.305

that there are no significant adverse impacts identified

276

00:13:34.305 --> 00:13:37.985

with regards to human health as a result

277

00:13:37.985 --> 00:13:40.305

of the mitigation proposals that they propose.

278

00:13:40.725 --> 00:13:44.345

As part of the scheme, I'm interested in all parties views

279

00:13:44.925 --> 00:13:48.305

on this topic and in particular how this approach feels

280

00:13:48.305 --> 00:13:51.345

for those interested parties here who are raising this

281

00:13:51.345 --> 00:13:53.425

as an issue in their written representations to us.

282

00:13:54.205 --> 00:13:55.585

So first I'm gonna go to the applicant

283

00:13:55.585 --> 00:13:58.465

and ask them to briefly summarize their approach

284

00:13:58.485 --> 00:13:59.745  
to assessing these impacts,

285

00:14:01.165 --> 00:14:02.545  
Alexis, common for the applicant.

286

00:14:02.805 --> 00:14:04.945  
Um, apologies

287

00:14:05.185 --> 00:14:06.385  
'cause I was looking for the appropriate time

288

00:14:06.385 --> 00:14:08.785  
to mention this, and I think you've been advised about our,

289

00:14:09.085 --> 00:14:10.785  
um, expert in this respect yesterday,

290

00:14:10.845 --> 00:14:12.585  
but our author of this chapter

291

00:14:12.685 --> 00:14:15.345  
and who has undertaken the assessment had an, um,

292

00:14:15.515 --> 00:14:17.945  
quite sudden close family bereavement on Monday.

293

00:14:18.045 --> 00:14:22.505  
And so, um, uh, has, is not able to join us today.

294

00:14:22.525 --> 00:14:25.345  
So, um, I think I'm not able

295

00:14:25.345 --> 00:14:26.625  
to speak to the assessment obviously.

296

00:14:26.765 --> 00:14:30.585  
Um, so I think it might be best if we can either take things

297

00:14:30.585 --> 00:14:32.185

away in writing, um,

298

00:14:32.605 --> 00:14:34.625

or if, if it suits you, if you want

299

00:14:34.625 --> 00:14:36.465

to obviously pick up a further set of hearings.

300

00:14:36.465 --> 00:14:38.545

But, um, hopefully that being conveyed to you in advance

301

00:14:38.645 --> 00:14:41.025

and just for the benefit of, of other people here, so

302

00:14:41.185 --> 00:14:43.025

that they're aware of that as well, that unfortunately we

303

00:14:43.025 --> 00:14:45.225

don't have, um, that expert here.

304

00:14:45.225 --> 00:14:47.225

We do have our, um, best safety expert here,

305

00:14:47.225 --> 00:14:50.465

but not, um, on the socioeconomics health

306

00:14:50.465 --> 00:14:52.165

and wellbeing, um, aspects.

307

00:14:52.225 --> 00:14:54.605

So, um, we will deal with it as best we can,

308

00:14:54.625 --> 00:14:57.845

but, um, I don't want to veer into territory that's very far

309

00:14:57.845 --> 00:15:00.205

outside my own expertise in particular on the assessment.

310

00:15:00.385 --> 00:15:03.165

So, um, apologies for that inconvenience.



311

00:15:03.575 --> 00:15:05.445

Thank you. Yes, you, you did raise that issue

312

00:15:05.445 --> 00:15:07.325

and advise us in advance of that yesterday.

313

00:15:07.505 --> 00:15:09.605

Um, please pass on that condolences to your colleague.

314

00:15:09.865 --> 00:15:12.525

Um, what we will do, if it's okay, is we'll take the views

315

00:15:12.525 --> 00:15:14.285

of interested parties in the room, uh,

316

00:15:14.345 --> 00:15:16.325

and, uh, of a statutory authorities.

317

00:15:16.785 --> 00:15:19.005

Uh, and, uh, we will consolidate that.

318

00:15:19.245 --> 00:15:20.605

I will take it, I will offer you the

319

00:15:20.605 --> 00:15:21.725

chance of a right reply for that.

320

00:15:21.825 --> 00:15:24.685

Now if you wish, understanding that your expert is not here.

321

00:15:25.225 --> 00:15:27.565

Uh, but, um, we'll obviously reserve the right

322

00:15:27.565 --> 00:15:29.725

to take this issue forward if we can't, um,

323

00:15:29.945 --> 00:15:31.885

get it satisfactorily answered today.

324

00:15:32.545 --> 00:15:35.205

So I'd now like to move to the parties in room, um,

325

00:15:35.385 --> 00:15:36.525

in no particular order.

326

00:15:36.985 --> 00:15:40.205

Uh, if I start with 7,000 acres first perhaps, uh,

327

00:15:40.465 --> 00:15:41.365

and then I can move to

328

00:15:41.365 --> 00:15:42.485

interested parties elsewhere in the room.

329

00:15:51.935 --> 00:15:52.995

Do you like me to reiterate

330

00:15:52.995 --> 00:15:54.155

the question, Sarah, at all please?

331

00:15:54.155 --> 00:15:56.315

Yeah, sorry. Um, so what I'm, what I was really looking

332

00:15:56.335 --> 00:15:58.035

for is that the applicant has

333

00:15:59.825 --> 00:16:03.835

addressed the health impacts by considering

334

00:16:04.495 --> 00:16:06.995

health in the total, if you like, by saying, uh,

335

00:16:07.305 --> 00:16:10.035

landscape visual impact impacts on employment,

336

00:16:10.105 --> 00:16:12.235

impacts on noise and disturbance to people and,

337

00:16:12.255 --> 00:16:14.435

and addressed it each one of those separately.

338

00:16:14.935 --> 00:16:16.915

And I was interested in people's opinions on that

339

00:16:17.095 --> 00:16:18.875

and whether they feel that all of the issues

340

00:16:18.875 --> 00:16:21.235

that potentially could affect human health have been

341

00:16:21.305 --> 00:16:23.435

addressed there and how they feel about the litigation

342

00:16:23.435 --> 00:16:24.715

of the applicant has proposed.

343

00:16:26.705 --> 00:16:28.355

Okay, good. Good morning, Mr. Eli.

344

00:16:29.095 --> 00:16:30.915

Um, thank you for the opportunity to speak.

345

00:16:31.375 --> 00:16:32.515

I'm Ray Stansfield.

346

00:16:33.015 --> 00:16:35.515

Um, I'm a resident of West Lindsay

347

00:16:36.215 --> 00:16:39.355

and I'm a member of, uh, the 7,000 acres group.

348

00:16:40.135 --> 00:16:45.075

And I'm also a, uh, uh, uh, an academic in, uh, nursing.

349

00:16:46.485 --> 00:16:49.585

Um, I'm never too sure how these things work.

350

00:16:49.725 --> 00:16:51.865

I'm not used to it, but, uh, Mr.

351

00:16:52.035 --> 00:16:54.985

Eline did say earlier that, um, he wanted

352

00:16:55.045 --> 00:16:57.465

to gather all the information he could, uh,

353

00:16:57.915 --> 00:16:59.145

about this subject.

354

00:17:00.345 --> 00:17:03.505

I don't think, um, it's been addressed

355

00:17:04.085 --> 00:17:05.665

in a depth that's appropriate.

356

00:17:06.565 --> 00:17:09.945

So, um, will you indulge me while I talk about that

357

00:17:10.005 --> 00:17:11.105

for a, a little while?

358

00:17:11.695 --> 00:17:16.465

Okay. Um, this session is devoted to, uh, health, safety

359

00:17:16.465 --> 00:17:19.225

and wellbeing, and I'd like to address the effects

360

00:17:19.405 --> 00:17:21.305

of the visual environment on mental health.

361

00:17:23.005 --> 00:17:26.025

My background is of half a century in mental health care,

362

00:17:26.445 --> 00:17:29.505

the first 30 years of which were in clinical practice

363

00:17:29.505 --> 00:17:30.985

as a registered mental health nurse,

364

00:17:31.485 --> 00:17:34.305

and the last 20 years as a nursing academic,

365

00:17:34.685 --> 00:17:36.945

as a university in the north of England.

366

00:17:37.895 --> 00:17:40.345

This campus is the largest provider of education

367

00:17:40.725 --> 00:17:43.865

for professions ally to medicines.

368

00:17:44.985 --> 00:17:46.305

I was quite initially, uh, jealous

369

00:17:46.365 --> 00:17:48.585

of my 7,000 acre colleagues, uh,

370

00:17:48.605 --> 00:17:50.885

who were engineers as their objections.

371

00:17:51.105 --> 00:17:54.085

Um, as power engineers seem much more straightforward

372

00:17:54.145 --> 00:17:56.285

and easily evidenced than the me the

373

00:17:56.285 --> 00:17:57.605

nebulous issue of mental health.

374

00:17:59.445 --> 00:18:01.025

And I was wrong in that, of course, uh,

375

00:18:01.185 --> 00:18:03.505

'cause physics aren't straightforward, uh, something

376

00:18:03.505 --> 00:18:05.065

that the proposers use to have advantage.

377

00:18:06.045 --> 00:18:08.145

But I do think they must all recognize

378

00:18:08.145 --> 00:18:10.905

that psychological health in relation

379

00:18:10.905 --> 00:18:14.465

to the environment is hard to define and capture.

380

00:18:15.765 --> 00:18:19.225

Though I argue its very elusive nature makes it more

381

00:18:19.225 --> 00:18:20.265

important to recognize

382

00:18:20.845 --> 00:18:22.505

and that it deserves a much more weight

383

00:18:22.505 --> 00:18:24.705

of consideration in the light of that.

384

00:18:26.655 --> 00:18:29.305

Ever since humans have stood up right on two legs on the

385

00:18:29.425 --> 00:18:32.505

savanna, vision has become the predominant sense.

386

00:18:34.135 --> 00:18:35.425

There's only one picture

387

00:18:35.925 --> 00:18:37.785

of Myra Hindley that you'll ever have.

388

00:18:38.325 --> 00:18:40.305

And every one of you is thinking of it now.

389

00:18:40.365 --> 00:18:45.095

Now I've mentioned it. Vision is powerful.

390

00:18:46.075 --> 00:18:48.655

The ongoing inquiry into the effects of lockdown reveals

391

00:18:48.655 --> 00:18:51.455

that the damage done by isolation from the natural world

392

00:18:51.955 --> 00:18:54.975

and the depressive effects of being captured in a place

393

00:18:54.975 --> 00:18:56.815

where you can only see a monotonous fist.

394

00:18:58.235 --> 00:19:00.005

When I first entered psychiatric care,

395

00:19:00.035 --> 00:19:01.645

disturbed patients were nursed in

396

00:19:01.645 --> 00:19:04.485

what we thought was de stimulated isolation.

397

00:19:05.185 --> 00:19:07.365

And it's since become clear that the bright walls

398

00:19:07.385 --> 00:19:11.485

of a single room actually made some people more psychotic.

399

00:19:12.425 --> 00:19:15.085

In some regime regimes, it's a form of torture.

400

00:19:16.585 --> 00:19:20.325

Please consider the then the potential effects that prayers

401

00:19:20.325 --> 00:19:23.885

of black glass will have upon the residents of West Lindsay.

402

00:19:24.875 --> 00:19:27.205

There's a move away from pharmacological

403

00:19:27.605 --> 00:19:28.965

interventions in psychiatric care.

404

00:19:29.665 --> 00:19:31.165

To what? To what is gen?

405

00:19:31.165 --> 00:19:33.405

Generically known as social prescribing.

406

00:19:34.805 --> 00:19:37.855

This very often involves active engagement

407

00:19:38.005 --> 00:19:39.895

with a natural world on the outdoors.

408

00:19:40.755 --> 00:19:43.015

The reason this is therapeutic is

409

00:19:43.015 --> 00:19:46.015

because the visual environment has a profound effect on

410

00:19:46.015 --> 00:19:47.455

emotion and mental wellbeing.

411

00:19:48.245 --> 00:19:51.255

This is being increasingly recognized in psychiatry

412

00:19:51.915 --> 00:19:54.295

and increasingly employed as therapy.

413

00:19:55.295 --> 00:19:59.215

I will provide, uh, the citations for the National Academy

414

00:19:59.275 --> 00:20:00.415

of Social Prescribing

415

00:20:00.875 --> 00:20:03.135

and the National Academy's report to parliament.

416

00:20:06.375 --> 00:20:09.125

There is a mental healthcare intervention called New Zealand

417

00:20:09.125 --> 00:20:12.485

Rooms, often used to decompress anger and frustration.

418

00:20:13.675 --> 00:20:15.525

Here the patient can choose the kind



419

00:20:15.525 --> 00:20:17.485

of environmental stimulation they wish to have.

420

00:20:18.385 --> 00:20:20.725

It can be light sounds or textures,

421

00:20:21.225 --> 00:20:23.965

but the value isn't so much in the kind of experience

422

00:20:24.195 --> 00:20:25.485

that the patient deter,

423

00:20:25.865 --> 00:20:27.525

but that the patient determines

424

00:20:27.525 --> 00:20:28.845

that experience for themselves.

425

00:20:30.785 --> 00:20:33.405

My last role before joining the university was a senior

426

00:20:33.405 --> 00:20:34.925

nurse on a regional secure unit.

427

00:20:36.105 --> 00:20:39.245

Uh, and RSU is one step down from a special hospital like

428

00:20:39.245 --> 00:20:42.005

Broadmoor and Lampton regimes

429

00:20:42.025 --> 00:20:45.245

to promote pro-social behavior, often included

430

00:20:45.875 --> 00:20:48.405

rewarding desired behavior with reinforcements.

431

00:20:48.545 --> 00:20:53.205

The patient desired the RSU being on a vast state of a form

432

00:20:53.205 --> 00:20:54.205

of Victorian asylum,

433

00:20:54.305 --> 00:20:57.245

had all rounds in which we could take the patients

434

00:20:57.785 --> 00:20:59.005

on escorted parole.

435

00:20:59.795 --> 00:21:01.645

Without doubt, the most valued

436

00:21:01.745 --> 00:21:06.485

and potentially reward was the chance to engage in nature,

437

00:21:07.805 --> 00:21:09.525

generously equipped as the RSU was

438

00:21:09.525 --> 00:21:12.205

with gymnasium football pitches and other things.

439

00:21:12.865 --> 00:21:15.405

It was that, that the patient's

440

00:21:15.625 --> 00:21:18.835

prized the examples above.

441

00:21:19.055 --> 00:21:21.395

So to illustrate the importance of being able to choose

442

00:21:21.425 --> 00:21:25.875

what you see and the profound effect the visual world has

443

00:21:26.615 --> 00:21:29.075

on the internal emotional state,

444

00:21:30.655 --> 00:21:31.845

developers often argue

445

00:21:32.395 --> 00:21:34.965

that no one has an unconditional right to a view.

446

00:21:36.065 --> 00:21:38.005

The residents could of course look elsewhere

447

00:21:38.065 --> 00:21:39.285

to choose another view.

448

00:21:39.665 --> 00:21:43.165

The residents and the tourists that come here could, uh,

449

00:21:43.285 --> 00:21:44.765

look elsewhere and choose another view,

450

00:21:45.305 --> 00:21:47.365

and there will be corridors of greenery

451

00:21:47.625 --> 00:21:50.365

before these four contiguous proposed developments.

452

00:21:51.745 --> 00:21:54.925

It would however, be like tearing the strip of the middle

453

00:21:54.925 --> 00:21:57.485

of constables haywain and saying, it's okay.

454

00:21:57.785 --> 00:21:59.685

You still have good bits at either side.

455

00:22:00.905 --> 00:22:03.725

We don't see the world in discreet boxes.

456

00:22:04.585 --> 00:22:05.965

We see it holistically.

457

00:22:06.665 --> 00:22:09.925

And when you make your decision, please include this in your

458

00:22:10.485 --> 00:22:12.605

consideration of cumulative effects.

459

00:22:14.665 --> 00:22:17.325

The good bits either side would easily fall into the newly

460

00:22:17.325 --> 00:22:21.325

created category of gray belt and all that entails.

461

00:22:22.985 --> 00:22:25.605

The tillage solar factory would be on the horizon for me.

462

00:22:26.665 --> 00:22:28.365

And another one

463

00:22:28.365 --> 00:22:30.605

of these projects would be staring at me from the upper

464

00:22:30.605 --> 00:22:31.725

windows of my cottage.

465

00:22:32.775 --> 00:22:35.285

There are many residents who would be much,

466

00:22:35.285 --> 00:22:38.045

much more immersed than I and cannot look elsewhere.

467

00:22:39.225 --> 00:22:41.965

The suggested screening would take decades to develop,

468

00:22:42.385 --> 00:22:44.765

and its term mitigation by the proposers.

469

00:22:45.915 --> 00:22:47.285

This in itself speaks volume.

470

00:22:47.625 --> 00:22:49.845

If it was not ugly, it wouldn't need mitigating.

471

00:22:51.025 --> 00:22:52.605

The promotional material produced

472

00:22:52.605 --> 00:22:55.165

by the four developers used illustrations of waste,

473

00:22:55.195 --> 00:22:57.845

high stock fencing surrounding the sites

474

00:22:59.565 --> 00:23:02.005

existing solar developments provide a grim reality

475

00:23:02.545 --> 00:23:04.725

of eight foot industrial palisade

476

00:23:05.285 --> 00:23:08.765

security fencing in which the public are corralled in dismal

477

00:23:08.875 --> 00:23:10.245

canyons between prairie areas.

478

00:23:10.245 --> 00:23:12.385

And that glass coming

479

00:23:12.485 --> 00:23:15.305

to towards the end now Okay, fairly towards it.

480

00:23:15.475 --> 00:23:17.065

Given that rural populations

481

00:23:17.065 --> 00:23:20.185

and farmers in particular have a much higher rate

482

00:23:20.185 --> 00:23:22.025

of suicide than the general population,

483

00:23:22.455 --> 00:23:24.585

have there been any address by the developers

484

00:23:24.605 --> 00:23:29.265

or the inspector of the effect detachment from natural world

485

00:23:29.265 --> 00:23:30.945

that prayers of black glass will have?

486

00:23:32.475 --> 00:23:35.355

I haven't seen that I've seen representation.

487

00:23:35.635 --> 00:23:39.355

I have sent representation given link to reports, uh, such

488

00:23:39.355 --> 00:23:41.195

as the University of Oxford report

489

00:23:41.215 --> 00:23:43.955

to Parliament on mental health risks to farmers in the uk.

490

00:23:44.985 --> 00:23:48.725

And the Commons Committee reports on rural mental health,

491

00:23:49.275 --> 00:23:52.685

both of which highlight the vulnerability of rural

492

00:23:53.225 --> 00:23:54.885

and farming populations.

493

00:23:56.665 --> 00:23:58.885

Dr. Proctor spoke last night at the open floor meeting,

494

00:23:58.985 --> 00:24:02.445

the absence of any real population specific assessment

495

00:24:02.985 --> 00:24:04.165

of the residents.

496

00:24:05.275 --> 00:24:08.485

Have you witnessed any real health assessment commissioned

497

00:24:08.485 --> 00:24:10.645

by the developers or the inspectorate,

498

00:24:11.105 --> 00:24:15.805

not a desktop research, a 7,000 acres colleague, Dr. Park

499

00:24:15.805 --> 00:24:18.685

and who's a GP and a public health practitioner has sent a

500

00:24:18.685 --> 00:24:21.725

letter to Ed Miller Band, which has not been acknowledged,

501

00:24:22.235 --> 00:24:23.325

much less responded

502

00:24:23.325 --> 00:24:25.725

to asking the same question I'm asking you now.

503

00:24:26.795 --> 00:24:28.365

What we seem to get is cut

504

00:24:28.365 --> 00:24:30.965

and pasted desktop responses from planners

505

00:24:31.385 --> 00:24:33.245

and none of that which is received,

506

00:24:33.905 --> 00:24:37.125

but which is derived from public health experts specific

507

00:24:37.125 --> 00:24:38.765

to the population in

508

00:24:38.765 --> 00:24:43.005

and around West Lindsay with its elderly, its veterans,

509

00:24:43.315 --> 00:24:45.725

it's disabled, it's new, diverse,

510

00:24:46.145 --> 00:24:48.765

and those with a myriad of other vulnerabilities,

511

00:24:50.145 --> 00:24:52.685

the inspectors can only be expected to have a deep

512

00:24:53.145 --> 00:24:54.285

but narrow expertise.

513

00:24:55.045 --> 00:24:56.365

I have no knowledge of town planning

514

00:24:56.425 --> 00:24:57.645  
or the structure of buildings,

515

00:24:58.995 --> 00:25:00.935  
but you have knowledge and acumen in these things.

516

00:25:01.275 --> 00:25:04.295  
But have you been given a thought exposition of the effects

517

00:25:04.715 --> 00:25:08.015  
of the visual environment on the residents of West Lindsay?

518

00:25:09.215 --> 00:25:11.385  
Finally, when you make your judgment,

519

00:25:11.385 --> 00:25:14.145  
which strikes a balance between all the evidence,

520

00:25:14.975 --> 00:25:17.905  
will you be in a position to give enough weight to an issue,

521

00:25:18.155 --> 00:25:22.625  
which is hard to define, easy to dismiss as nibi nimbyism,

522

00:25:23.405 --> 00:25:26.465  
but could have a profound effect on the wellbeing

523

00:25:26.565 --> 00:25:28.785  
of the people of West Lindsay.

524

00:25:29.995 --> 00:25:31.385  
Thank you. You

525

00:25:32.475 --> 00:25:36.425  
Thank you, thank you

526

00:25:36.425 --> 00:25:37.545  
for the points that you're raising there.



527

00:25:37.725 --> 00:25:40.265

Um, touching on some

528

00:25:40.265 --> 00:25:42.265

of the particular issues you raised about vision

529

00:25:42.605 --> 00:25:47.185

and landscape, um, one

530

00:25:47.185 --> 00:25:48.585

of the questions I was asking is the,

531

00:25:48.645 --> 00:25:51.545

the applicant has taken the approach of

532

00:25:53.225 --> 00:25:55.065

specifically delving into each of those topics

533

00:25:55.125 --> 00:25:56.505

and trying to provide an assessment.

534

00:25:56.645 --> 00:25:58.225

So I was interested in yours

535

00:25:58.225 --> 00:25:59.825

and other people's views on whether

536

00:25:59.825 --> 00:26:03.465

that is an effective approach.

537

00:26:03.885 --> 00:26:06.225

Um, I'm guessing from your statement you feel

538

00:26:06.225 --> 00:26:07.345

it's perhaps not been.

539

00:26:07.725 --> 00:26:10.025

Uh, and then secondly, moving on to the second piece

540

00:26:10.025 --> 00:26:11.625

that you raised, uh,

541

00:26:11.765 --> 00:26:13.505  
and your colleagues last night,

542

00:26:13.985 --> 00:26:18.705  
also raising at the open floor hearing about, uh, the degree

543

00:26:18.705 --> 00:26:20.145  
of rigor which has been undertaken

544

00:26:20.145 --> 00:26:22.185  
with the health impact assessment.

545

00:26:22.665 --> 00:26:24.625  
I noticed in your written reply to our question,

546

00:26:24.635 --> 00:26:26.785  
7,000 acres requested a more comprehensive

547

00:26:27.325 --> 00:26:29.865  
health impact assessment should be undertaken rather than

548

00:26:29.865 --> 00:26:31.065  
just a desktop exercise.

549

00:26:31.705 --> 00:26:35.385  
I was looking to see if you had any suggestion in, uh,

550

00:26:35.935 --> 00:26:37.385  
what you felt that should look like

551

00:26:38.045 --> 00:26:40.825  
and how comprehensive it should be and what it may entail.

552

00:26:44.135 --> 00:26:48.625  
Okay, Ray Stansfield, um, uh, could I,

553

00:26:48.865 --> 00:26:52.305  
I will be following that up with a written, uh, with,

554

00:26:52.305 --> 00:26:55.105

with the citations from the sources that I've mentioned.

555

00:26:55.555 --> 00:26:59.865

Could I confer with Dr. Uh, uh, uh, Dr.

556

00:26:59.975 --> 00:27:01.265

Proctor and Dr.

557

00:27:01.405 --> 00:27:03.985

Parkin and include that in my written

558

00:27:05.515 --> 00:27:07.065

thank, thank you for your response. Yeah,

559

00:27:07.065 --> 00:27:08.065

No problem at all. That'd be

560

00:27:08.065 --> 00:27:09.985

excellent. Thank you. Uh, just

561

00:27:09.985 --> 00:27:11.905

to remind colleagues, I think

562

00:27:12.605 --> 00:27:14.225

we will be issuing our second round

563

00:27:14.225 --> 00:27:16.545

of written questions on the 4th of February.

564

00:27:16.545 --> 00:27:18.705

And I think the deadline for, uh, replies

565

00:27:18.705 --> 00:27:22.705

to this particular, um, issue, specific issue.

566

00:27:22.825 --> 00:27:27.265

A specific hearing is the 28th of January. Thank you.

567

00:27:27.285 --> 00:27:29.185

Uh, I'll now move, um, if I can

568

00:27:29.185 --> 00:27:31.825  
to statutory authorities, the local authorities.

569

00:27:31.825 --> 00:27:32.985  
Would any of the local authorities like

570

00:27:32.985 --> 00:27:35.665  
to comment on the issue that has been raised so far?

571

00:27:39.095 --> 00:27:40.315  
Uh, west Lindsey, yes.

572

00:27:40.915 --> 00:27:42.315  
Chairman Shape, west Lin District Council.

573

00:27:42.975 --> 00:27:45.835  
So we have a point of clarification for the applicant,

574

00:27:45.855 --> 00:27:48.155  
but perhaps we'll respond in writing once

575

00:27:48.155 --> 00:27:49.275  
we see in the applicant's position.

576

00:27:49.275 --> 00:27:50.515  
It's a point about methodology

577

00:27:51.175 --> 00:27:52.475  
and it's a point about the extent

578

00:27:52.475 --> 00:27:53.675  
to which positive mental health

579

00:27:53.815 --> 00:27:55.675  
and physical health has been taken into account in

580

00:27:55.735 --> 00:27:56.835  
the applicant's assessment.

581

00:27:57.525 --> 00:27:58.635

Thank you, sir. Thank you.

582

00:28:05.095 --> 00:28:06.355

Uh, and now if I could move

583

00:28:06.355 --> 00:28:08.635

to any interested parties in the room who would like

584

00:28:08.635 --> 00:28:10.755

to make a comment on, uh, what's just been discussed.

585

00:28:16.685 --> 00:28:21.015

Okay. Would you prefer to move to the table

586

00:28:21.015 --> 00:28:23.015

or are you happy to speak using a microphone, please?

587

00:28:23.235 --> 00:28:24.495

You, you're more than welcome to do either.

588

00:28:24.515 --> 00:28:26.535

If you wish to move to a table microphone, you can,

589

00:28:26.535 --> 00:28:27.455

or if you wish to speak from

590

00:28:27.455 --> 00:28:28.575

the chair, that'd be more than happy.

591

00:28:29.115 --> 00:28:30.015

If you could like, just remind

592

00:28:30.015 --> 00:28:31.055

you, please to let us know who you are.

593

00:28:31.075 --> 00:28:32.575

That's, uh, Mr. Montgomery.

594

00:28:39.725 --> 00:28:43.025

Is that Tom? A little bit quiet, but just try again.

595

00:28:43.245 --> 00:28:44.505

Is that Tom? Yes, it's, thank you.

596

00:28:45.205 --> 00:28:47.785

Uh, Carol Montgomery, resident of Glenworth.

597

00:28:49.265 --> 00:28:51.225

I will try to speak clearly, um,

598

00:28:52.025 --> 00:28:54.785

struggle breathing when I'm talking about things like this.

599

00:28:56.005 --> 00:28:58.065

Um, within the planning application,

600

00:28:58.695 --> 00:29:01.545

chapter 11 is the environmental statement.

601

00:29:02.215 --> 00:29:05.345

Paragraph 11.33 states

602

00:29:05.345 --> 00:29:07.425

that the effects on human health

603

00:29:07.525 --> 00:29:09.705

during construction operation

604

00:29:09.705 --> 00:29:12.185

and decommissioning phases are based on a range

605

00:29:12.185 --> 00:29:16.025

of related assessments and relevant environmental studies.

606

00:29:17.545 --> 00:29:19.825

I would suggest that due to the unique nature

607

00:29:19.845 --> 00:29:21.585

of this development, these are meaningless.

608

00:29:22.605 --> 00:29:24.905

Any solar development of this scale in the world

609

00:29:24.975 --> 00:29:29.465

that I can find and I can do a Google search to are desert

610

00:29:30.185 --> 00:29:34.145

locations, arid locations, away from populated areas.

611

00:29:35.365 --> 00:29:38.265

So uniquely til Bridge Solar, along

612

00:29:38.265 --> 00:29:40.305

with the other three adjoining solar developments

613

00:29:40.815 --> 00:29:41.845

will either surround

614

00:29:41.865 --> 00:29:44.565

or sit alongside 30 communities

615

00:29:45.615 --> 00:29:47.725

whose residents will be expected to live

616

00:29:47.725 --> 00:29:51.405

and die next to these monstrosities for up to 60 years.

617

00:29:52.555 --> 00:29:54.005

Therefore, I would question

618

00:29:54.105 --> 00:29:55.725

how any research can have been done

619

00:29:56.065 --> 00:29:57.885

to show the effects on human health

620

00:29:58.515 --> 00:30:01.165

when no such situation has existed before.

621

00:30:02.665 --> 00:30:05.525

The impact of just reading the environmental statement alone

622

00:30:05.785 --> 00:30:06.965

on myself was awful.

623

00:30:07.885 --> 00:30:11.165

I literally just wanted to scream to see page

624

00:30:11.165 --> 00:30:12.725

after page stating

625

00:30:12.725 --> 00:30:14.445

that throughout the construction operation

626

00:30:14.445 --> 00:30:15.725

and decommissioning phases,

627

00:30:16.465 --> 00:30:20.845

the impact on human health across every single area listed,

628

00:30:22.295 --> 00:30:26.345

including the landscape, visual immunity, noise, vibration,

629

00:30:26.405 --> 00:30:28.585

the transport we heard a lot about last night

630

00:30:29.965 --> 00:30:33.425

is just dismissed as minor, not significant.

631

00:30:34.255 --> 00:30:37.465

That it has no effect on people. And yet here I am.

632

00:30:39.525 --> 00:30:42.185

How can it be possible that when we,

633

00:30:42.185 --> 00:30:45.625

when we bend over backwards to recognize the hurt caused

634

00:30:46.845 --> 00:30:50.305

or the effects on mental health from things like a hurtful



635

00:30:50.305 --> 00:30:51.305

comment or tweet,

636

00:30:51.805 --> 00:30:55.185

or the misuse of a pronoun, yet suggest

637

00:30:55.415 --> 00:30:57.145

that taking away people's land

638

00:30:57.145 --> 00:31:00.425

and homes silencing them by accusing them

639

00:31:00.425 --> 00:31:04.265

of being NIMBYs if they dare to object, exposing them

640

00:31:04.265 --> 00:31:07.585

to long-term construction activity over three to five years.

641

00:31:08.605 --> 00:31:13.065

And taking people who've lived for generations in a rural

642

00:31:13.125 --> 00:31:14.145

and open setting

643

00:31:14.445 --> 00:31:16.665

and surrounding them with industrial development

644

00:31:16.685 --> 00:31:20.025

for the rest of their lives will have negligible

645

00:31:20.165 --> 00:31:22.145

or not significant impact on them.

646

00:31:24.145 --> 00:31:25.985

I feel we're being used as Guinea pigs

647

00:31:26.125 --> 00:31:28.105

and by changing the planning regulations,

648

00:31:28.125 --> 00:31:29.905

the government has taken away our rights

649

00:31:30.365 --> 00:31:33.785

to protect the things that are so important to us.

650

00:31:34.565 --> 00:31:37.065

And these aren't just fields, they're the landscape

651

00:31:37.195 --> 00:31:40.745

where our communities live across the world.

652

00:31:40.895 --> 00:31:43.225

Wars have been fought for as long as man has been around

653

00:31:43.685 --> 00:31:45.425

by those trying to protect their homes

654

00:31:45.445 --> 00:31:48.665

and land from those trying to take it or destroy it

655

00:31:49.335 --> 00:31:52.025

because people care about where they live.

656

00:31:53.415 --> 00:31:55.315

And this project will destroy our land,

657

00:31:56.015 --> 00:31:57.795

yet we're just expected to sit by

658

00:31:57.895 --> 00:32:00.475

and watch it happen and feel nothing.

659

00:32:03.175 --> 00:32:06.435

People meet and socialize by getting out and walking

660

00:32:06.575 --> 00:32:09.835

and cycling, meeting other people from the neighborhood

661

00:32:10.375 --> 00:32:12.755

and from neighboring villages who are doing the same.

662

00:32:13.745 --> 00:32:16.755

It's so important for the cohesion of a community.

663

00:32:17.935 --> 00:32:19.195

If there's nowhere to walk

664

00:32:19.375 --> 00:32:22.035

or cycle safely, that cohesion will suffer.

665

00:32:22.975 --> 00:32:24.355

People won't want to go out

666

00:32:24.355 --> 00:32:26.835

for a walk down a permissive corridor through the middle

667

00:32:26.835 --> 00:32:27.835

of solar panels.

668

00:32:28.945 --> 00:32:31.475

Where's the pleasure in that? I certainly wouldn't want to.

669

00:32:32.055 --> 00:32:33.355

And that community spirit

670

00:32:33.455 --> 00:32:35.355

and the knowing of your neighbors will suffer.

671

00:32:36.425 --> 00:32:40.285

People will become more isolated, needing to drive more

672

00:32:40.285 --> 00:32:43.165

to get out, rather than walking and meeting people.

673

00:32:43.305 --> 00:32:45.125

And that will impact on both their

674

00:32:45.405 --> 00:32:46.445

physical and mental health.

675

00:32:48.175 --> 00:32:49.565

Personally. The impact

676

00:32:49.565 --> 00:32:52.565

of these solar projects is all already massive.

677

00:32:53.845 --> 00:32:58.345

The emotional stress and anxiety are huge and constant.

678

00:32:59.325 --> 00:33:02.145

And every time I hear people talking about it on the TV

679

00:33:02.245 --> 00:33:04.985

and on the radio, it triggers the anxiety.

680

00:33:05.805 --> 00:33:09.365

And I panic. Rarely do I get a good night's sleep.

681

00:33:09.885 --> 00:33:12.645

I lie away thinking about the arguments against this

682

00:33:12.825 --> 00:33:16.885

and the, the idiocy of it, waking up

683

00:33:16.885 --> 00:33:19.605

with headaches more often than not having a knot in my

684

00:33:19.605 --> 00:33:22.125

stomach, which I have now because I'm so angry

685

00:33:22.865 --> 00:33:25.685

and frustrated at the madness of covering farmland

686

00:33:25.685 --> 00:33:28.645

with solar panels and knowing that there's no process,

687

00:33:29.625 --> 00:33:30.685

no meaningful process

688

00:33:31.545 --> 00:33:33.245

by which we can do anything to stop it.

689

00:33:33.825 --> 00:33:35.725

It literally makes you ill.

690

00:33:37.095 --> 00:33:38.715

You could ask anyone in the room

691

00:33:39.095 --> 00:33:41.355

and anybody who was in the room last night,

692

00:33:42.055 --> 00:33:43.915

if they want cleaner and cheaper energy,

693

00:33:44.215 --> 00:33:46.075

and every single hand would go up.

694

00:33:47.895 --> 00:33:50.835

If you asked, do you want to sacrifice fast areas

695

00:33:50.855 --> 00:33:52.795

of food producing land for solar,

696

00:33:53.495 --> 00:33:56.155

an energy system unreliable, inefficient,

697

00:33:56.215 --> 00:33:57.795

and highly vulnerable to damage,

698

00:33:58.455 --> 00:34:00.035

not a single hand would go up.

699

00:34:00.695 --> 00:34:03.395

So clearly the answer you get very much depends on

700

00:34:03.395 --> 00:34:04.555

how you phrase the question.

701

00:34:06.935 --> 00:34:09.035

So, despite warnings from the energy industry

702

00:34:09.035 --> 00:34:11.435

that the intermittent power causes problems for the grid,

703

00:34:12.145 --> 00:34:14.435

when I hear Ed Milli band telling us

704

00:34:14.435 --> 00:34:16.795

that everyone is in agreement with what he's doing,

705

00:34:17.185 --> 00:34:18.355

that it's the right thing

706

00:34:18.575 --> 00:34:20.835

to approve the solar farms, it's a lie.

707

00:34:21.675 --> 00:34:23.555

I haven't been asked, who are these people?

708

00:34:23.655 --> 00:34:25.355

Who are they asking and what are they asking?

709

00:34:27.305 --> 00:34:31.525

And yet we can do nothing when one man can authorize these.

710

00:34:32.105 --> 00:34:34.605

And the phrase, the rage against the machine

711

00:34:35.545 --> 00:34:37.005

has never felt more personal.

712

00:34:37.115 --> 00:34:42.005

This feels like a machine that's has no emotion,

713

00:34:42.315 --> 00:34:45.125

that you can't talk to, you can't argue with

714

00:34:45.675 --> 00:34:47.445

because nobody seems to be listening.

715

00:34:50.445 --> 00:34:52.665

And then I think just to add at, at the end,

716  
00:34:52.725 --> 00:34:54.305  
the biggest thing that I'm struggling

717  
00:34:54.305 --> 00:34:55.665  
with is the lack of hope.

718  
00:34:58.335 --> 00:35:01.425  
That all, all this discussion, I don't,

719  
00:35:01.985 --> 00:35:04.945  
I don't believe deep down means anything

720  
00:35:05.215 --> 00:35:07.305  
because I think the whole thing will just go through

721  
00:35:07.325 --> 00:35:08.865  
and Ed Milliband will approve it.

722  
00:35:09.845 --> 00:35:13.545  
And I think that this will be the next biggest scandal

723  
00:35:13.545 --> 00:35:14.545  
coming down the line.

724  
00:35:15.605 --> 00:35:18.265  
And people around this table, you won't be able to say,

725  
00:35:18.405 --> 00:35:19.505  
we didn't know about it.

726  
00:35:19.735 --> 00:35:20.985  
Lessons will be learned

727  
00:35:20.985 --> 00:35:23.345  
because you do know about it and we are warning you.

728  
00:35:24.205 --> 00:35:26.625  
So please listen. Thank you.

729  
00:35:27.635 --> 00:35:31.865

Thank you, Mrs. Montgomery. Okay. Sorry Mrs.

730

00:35:31.865 --> 00:35:35.105

Bingham, did you want to speak? Thank you.

731

00:35:41.465 --> 00:35:44.965

Um, just a very quick one, Ingham local farmer

732

00:35:46.355 --> 00:35:50.165

that there's one person for health, safety, wellbeing,

733

00:35:51.145 --> 00:35:53.245

and my condolences for their bereavement.

734

00:35:54.265 --> 00:35:56.575

But one person in all of this

735

00:35:57.355 --> 00:35:59.535

and no one else to present.

736

00:36:01.115 --> 00:36:02.995

I think that shows the weight

737

00:36:03.735 --> 00:36:05.875

of all this given by the applicant.

738

00:36:06.375 --> 00:36:07.995

And I think it's disgraceful

739

00:36:09.015 --> 00:36:11.555

and I agree with absolutely with everything

740

00:36:11.555 --> 00:36:12.875

that Carol has just said.

741

00:36:14.085 --> 00:36:15.115

Thank you. Thank

742

00:36:15.115 --> 00:36:16.115

You.



743

00:36:20.855 --> 00:36:23.355

Are there any other, uh, interested parties in the room

744

00:36:23.355 --> 00:36:24.675

who would like to speak on this issue?

745

00:36:29.365 --> 00:36:33.175

Okay, thank you. Um, going back to the applicant,

746

00:36:33.255 --> 00:36:35.295

I appreciate that you, your representative is not here.

747

00:36:35.785 --> 00:36:37.495

Would you like to write a reply now

748

00:36:37.495 --> 00:36:40.175

or would you like to come back in writing to the

749

00:36:40.665 --> 00:36:42.375

Thank you sir Alexis, the applicant.

750

00:36:42.595 --> 00:36:44.455

Um, I'll probably take both options.

751

00:36:44.675 --> 00:36:47.055

Um, just to pick up on the final point from, um, Ms.

752

00:36:47.055 --> 00:36:48.935

Bigham, um, the expert, Mr.

753

00:36:48.935 --> 00:36:51.455

Howells, he is the, um, main author of the report

754

00:36:51.635 --> 00:36:53.535

and, um, has been preparing for some weeks

755

00:36:53.555 --> 00:36:55.095

to be the expert today.

756

00:36:55.355 --> 00:36:56.975

Um, he's got a whole team behind him,

757

00:36:56.995 --> 00:36:58.935

so it's not a solo effort.

758

00:36:59.115 --> 00:37:02.415

Um, and if we'd had a few more, a bit more time,

759

00:37:02.435 --> 00:37:03.535

we would've definitely had someone.

760

00:37:03.635 --> 00:37:05.175

But, um, this literally happened very

761

00:37:05.175 --> 00:37:06.815

unexpectedly for him on Monday morning.

762

00:37:07.235 --> 00:37:10.655

Um, and he was the, the expert who'd been putting in a lot

763

00:37:10.655 --> 00:37:12.135

of preparation to come and speak today and,

764

00:37:12.275 --> 00:37:14.655

and was, uh, disappointed not to be able to do so

765

00:37:14.795 --> 00:37:17.015

as we obviously, so I apologize again

766

00:37:17.395 --> 00:37:19.295

and, um, we will take away the concerns.

767

00:37:19.295 --> 00:37:20.895

We've, we've taken notes, we've heard them,

768

00:37:20.895 --> 00:37:22.255

we've heard them from last night as well.

769

00:37:22.755 --> 00:37:25.615

Um, appreciate, fully appreciate the, you know,

770

00:37:25.615 --> 00:37:27.615

the very serious, um, issues that have been raised.

771

00:37:27.635 --> 00:37:30.495

So I I, I won't attempt to, um, answer them myself

772

00:37:30.615 --> 00:37:31.895

'cause I think that does them a disservice,

773

00:37:31.995 --> 00:37:33.175

but we'll definitely take that away.

774

00:37:33.515 --> 00:37:36.375

Um, I would hope a deadline for, I just need

775

00:37:36.375 --> 00:37:39.375

to obviously manage the, um, the, um, Mr.

776

00:37:39.375 --> 00:37:40.535

Howell's situation as well,

777

00:37:40.555 --> 00:37:41.695

but he has a team behind him,

778

00:37:41.695 --> 00:37:42.975

so we will do our absolute best.

779

00:37:42.975 --> 00:37:45.895

And if Mr. Stanfield is going to put in something for, um,

780

00:37:46.215 --> 00:37:48.935

deadline for, um, along those points that he's mentioned,

781

00:37:48.935 --> 00:37:50.895

then that would be helpful and we can respond to

782

00:37:50.895 --> 00:37:53.015

that at the subsequent deadline.

783

00:37:53.555 --> 00:37:56.575

Um, it's quite a lot of points also picking up on landscape

784

00:37:56.575 --> 00:37:58.335

and visual, which obviously we'll pick up in a

785

00:37:58.335 --> 00:37:59.375

later agenda item.

786

00:37:59.515 --> 00:38:01.055

And so we can also talk to that.

787

00:38:01.515 --> 00:38:03.455

We can talk to, um, what we're doing

788

00:38:03.455 --> 00:38:07.175

around creating permissive paths and the, um, and setbacks

789

00:38:07.175 --> 00:38:09.615

and, and the way that's been designed as part of the scheme

790

00:38:09.765 --> 00:38:13.495

with, with, um, recreation and, and wellbeing in mind.

791

00:38:14.155 --> 00:38:17.495

Um, and we can also talk to the framework landscape

792

00:38:17.555 --> 00:38:20.695

and EC college ecological management plan, which is secured

793

00:38:20.695 --> 00:38:22.175

by requirement seven of the DCO

794

00:38:22.175 --> 00:38:25.295

and which requires us to deliver that mitigation, um,

795

00:38:25.315 --> 00:38:26.735

and which will need to be approved

796

00:38:26.915 --> 00:38:29.335

by the local planning authorities before we implement that.

797

00:38:29.515 --> 00:38:30.735

So in terms of the mitigation

798

00:38:30.735 --> 00:38:32.055

and what was said about the screening

799

00:38:32.475 --> 00:38:34.935

and, um, Mr. Allen, um, our landscape

800

00:38:35.465 --> 00:38:38.165

and that agenda item can talk to the, um,

801

00:38:39.105 --> 00:38:42.245

as can oncology experts, the, the monitoring, um, aspects

802

00:38:42.265 --> 00:38:45.085

of those plans to make sure that that screening is realized

803

00:38:45.085 --> 00:38:47.925

and that planting, um, occurs as we expect and,

804

00:38:47.925 --> 00:38:49.045

and as we've assumed for the assessment.

805

00:38:49.065 --> 00:38:51.445

So in terms of the visual aspect, we can probably talk to

806

00:38:51.445 --> 00:38:53.285

that today, just not the bit in terms

807

00:38:53.285 --> 00:38:55.725

of its impact in the context of mental health.

808

00:38:55.865 --> 00:38:58.565

But, um, we've, we've heard what everyone said and,

809

00:38:58.565 --> 00:39:00.645

and thank you for coming to make those points

810

00:39:00.665 --> 00:39:02.725

and we'll respond in writing. Thank you.

811

00:39:03.655 --> 00:39:05.565

Thank you. Yeah, I would just would just reiterate,

812

00:39:05.565 --> 00:39:06.965

this is a significant issue.

813

00:39:06.965 --> 00:39:08.245

It's a key issue of the application.

814

00:39:08.485 --> 00:39:10.605

I know you have duplicates in your legal team,

815

00:39:10.825 --> 00:39:12.845

you have duplicates in your other technical teams.

816

00:39:13.305 --> 00:39:16.045

Uh, taking on Mrs. Bingham's point is disappointing.

817

00:39:16.445 --> 00:39:18.445

I offer our condolences obviously to your colleague,

818

00:39:18.445 --> 00:39:20.845

but, um, it is a very significant issue, one

819

00:39:20.845 --> 00:39:22.205

that we're considering as an examining

820

00:39:22.205 --> 00:39:23.485

authority very significantly.

821

00:39:24.735 --> 00:39:29.725

Thank you. Uh,

822

00:39:29.785 --> 00:39:31.365

as we say, we will reserve the right

823

00:39:31.365 --> 00:39:33.485

to perhaps raise this again at another hearing.

824

00:39:37.795 --> 00:39:40.455

Uh, moving on, I want to move on to another issue that has,

825

00:39:40.555 --> 00:39:42.815

uh, come to our attention, which is the potential for

826

00:39:43.395 --> 00:39:46.095

the large areas of solar panels to, um,

827

00:39:46.235 --> 00:39:48.575

change the local microclimate.

828

00:39:48.955 --> 00:39:51.415

Uh, I'm curious as to potential for the change in

829

00:39:51.415 --> 00:39:53.695

what would we call the surface albedo from that

830

00:39:54.455 --> 00:39:57.135

original crop of grassland to the solar panels

831

00:39:57.135 --> 00:39:59.695

and how this may affect the local absorptions

832

00:39:59.795 --> 00:40:02.975

of the sun's rays on that surface, uh,

833

00:40:02.975 --> 00:40:04.975

and any potential effects this may have on localized

834

00:40:04.975 --> 00:40:08.255

temperature for local residents, such as creating heat

835

00:40:08.765 --> 00:40:12.255

islands or other microclimatic changes

836

00:40:12.635 --> 00:40:13.655

in the local environment.

837

00:40:14.275 --> 00:40:15.735

So what I'm suggesting here is that

838

00:40:16.655 --> 00:40:19.095

changing from a large area of grassland to a large area

839

00:40:19.095 --> 00:40:20.975

of solar panels, I'd like to understand,

840

00:40:21.655 --> 00:40:24.055

I don't's been described to us effectively at the moment

841

00:40:24.245 --> 00:40:26.735

whether that will change the local temperature

842

00:40:26.955 --> 00:40:28.895

of the community given the size

843

00:40:29.035 --> 00:40:30.415

and proposal of the development.

844

00:40:30.955 --> 00:40:33.295

So could the applicant please, uh, comment on that?

845

00:40:47.985 --> 00:40:51.165

Um, Alexis, the applicant, um, sorry sir, I've, um,

846

00:40:52.075 --> 00:40:54.765

just trying to work out which of the experts I have

847

00:40:54.765 --> 00:40:56.605

for the agenda items that, that might, um,

848

00:40:56.755 --> 00:40:58.285

logically sit under.

849

00:40:58.985 --> 00:41:01.745

Um, I might need to take that one away

850

00:41:01.745 --> 00:41:03.465

because I, I don't think



851

00:41:03.465 --> 00:41:05.305

that people have right to admit this minute.

852

00:41:05.725 --> 00:41:08.265

Um, was this under gender item three A?

853

00:41:08.525 --> 00:41:10.345

Was that, yes, I believe this could have an effect on

854

00:41:10.345 --> 00:41:12.785

people's health, the fact that you're okay, potentially,

855

00:41:13.245 --> 00:41:14.385

you know, that evidence

856

00:41:14.525 --> 00:41:16.105

That's the, I understand globally that, you know,

857

00:41:16.105 --> 00:41:17.665

the local temperature may change due

858

00:41:17.665 --> 00:41:20.265

to painting the thousands of acres black.

859

00:41:20.985 --> 00:41:22.905

I understand. So, okay. Thank you. I just did some

860

00:41:22.905 --> 00:41:24.625

clarification as to of where it's at.

861

00:41:24.845 --> 00:41:26.665

Um, I'll, I'll have to take that one away again.

862

00:41:26.765 --> 00:41:28.025

Um, unfortunately. Okay,

863

00:41:28.235 --> 00:41:29.235

Thank you.

864

00:41:29.555 --> 00:41:32.385

Would any, uh, parties in the room, uh, starting

865

00:41:32.385 --> 00:41:33.925  
with 7,000 acres again, if that's okay?

866

00:41:34.045 --> 00:41:35.045  
I have any comment on that.

867

00:41:37.935 --> 00:41:40.045  
Thank you sir. Liz Gar, 7,000 acres.

868

00:41:40.385 --> 00:41:41.725  
Yes, we've done a little bit of research

869

00:41:41.725 --> 00:41:43.085  
and it's not expert at all,

870

00:41:43.625 --> 00:41:45.285  
but as we understand it,

871

00:41:45.315 --> 00:41:47.765  
this may have effects on respiratory conditions

872

00:41:48.425 --> 00:41:51.205  
and visual conditions as Mr.

873

00:41:52.065 --> 00:41:53.565  
Um, Stanfield has alluded to.

874

00:41:53.565 --> 00:41:54.925  
Obviously, reports

875

00:41:54.925 --> 00:41:57.085  
that the applicant has done has not mentioned

876

00:41:58.045 --> 00:42:01.005  
existing health conditions that residents may have.

877

00:42:01.505 --> 00:42:05.005  
Um, maybe they've taken a, a, a standpoint that a person,

878

00:42:05.145 --> 00:42:06.445  
the general population is can

879

00:42:07.155 --> 00:42:10.605  
healthy fit population.

880

00:42:11.065 --> 00:42:12.685  
Um, but obviously, um,

881

00:42:12.755 --> 00:42:14.765  
that may not be the case as we are aware.

882

00:42:15.385 --> 00:42:18.565  
And, um, if then, um,

883

00:42:19.315 --> 00:42:22.885  
increased areas of, um, concentrated areas

884

00:42:23.505 --> 00:42:25.325  
of heat islands occur

885

00:42:25.425 --> 00:42:29.045  
and air movement changes also occur.

886

00:42:29.825 --> 00:42:33.805  
Um, this can have a, you know, across vast areas

887

00:42:35.505 --> 00:42:37.125  
and the cumulative effect of that,

888

00:42:38.075 --> 00:42:41.605  
this could have an immediate effect on residents

889

00:42:41.865 --> 00:42:43.365  
and people passing through.

890

00:42:44.065 --> 00:42:48.845  
Um, so we are concerned about the concentration

891

00:42:49.145 --> 00:42:51.885

of these aspects in terms of, um,

892

00:42:53.245 --> 00:42:55.725

people's health in, in the region.

893

00:42:56.385 --> 00:42:57.925

Um, as Ms.

894

00:42:58.185 --> 00:43:01.285

Mrs. Montgomery mentioned, people have breathing conditions,

895

00:43:01.905 --> 00:43:06.645

um, with dust particles in the air from construction

896

00:43:06.865 --> 00:43:10.845

and therefore, and also water particles in the air from

897

00:43:11.315 --> 00:43:14.405

washing, um, the panels at various times.

898

00:43:15.145 --> 00:43:19.925

Um, that then changes the atmosphere, um, from

899

00:43:19.925 --> 00:43:22.085

what we've been used to for centuries here

900

00:43:22.505 --> 00:43:23.645

across generations.

901

00:43:23.705 --> 00:43:25.725

So the makeup of the landscape

902

00:43:25.825 --> 00:43:29.525

and the atmosphere, um, atmospheric pressures

903

00:43:29.525 --> 00:43:32.005

and what the, the particles in the atmosphere will change

904

00:43:33.025 --> 00:43:35.525

and the solar, um, aspects, uh,

905

00:43:35.885 --> 00:43:37.565

concentration aspects will change radically.

906

00:43:38.145 --> 00:43:41.245

So it's not just those changes, it's also the effect

907

00:43:41.245 --> 00:43:44.685

of those changes will have on people's help as well.

908

00:43:44.985 --> 00:43:47.325

If, if you're, if that's clear. Thank

909

00:43:47.325 --> 00:43:48.325

You. Thank you. Yeah, I,

910

00:43:48.325 --> 00:43:50.285

um, the, the question I'm really looking

911

00:43:50.305 --> 00:43:52.245

for an answer to is, um,

912

00:43:54.515 --> 00:43:58.245

what will the change in the local climate

913

00:43:58.305 --> 00:44:00.485

and heat be of the, of the community

914

00:44:01.225 --> 00:44:05.405

by changing from grassland to a, a, a panel that is designed

915

00:44:05.405 --> 00:44:06.725

to absorb solar energy

916

00:44:07.105 --> 00:44:10.525

and on a large scale, do, do the local authorities, uh,

917

00:44:10.835 --> 00:44:12.565

have any views on that at all, or just to comment?

918

00:44:15.265 --> 00:44:17.685

No. Okay. Thank and, uh, any interested parties in the room?

919

00:44:18.965 --> 00:44:21.415

Okay, thank you. Uh, if you can take that one away.

920

00:44:21.415 --> 00:44:22.535

Thank you. Like I say, if you wish to

921

00:44:22.535 --> 00:44:23.695

reply more than welcome to now, but

922

00:44:23.695 --> 00:44:24.695

If you could, thank you. Yes. No,

923

00:44:24.695 --> 00:44:25.415

that, that's helpful.

924

00:44:25.595 --> 00:44:27.975

And we have responded to the point in terms

925

00:44:28.035 --> 00:44:30.375

of the likely effect from the panels, um,

926

00:44:30.375 --> 00:44:31.885

in response to the relevant reps.

927

00:44:31.885 --> 00:44:35.925

That was page 2 9, 1 of, of that document, um, which

928

00:44:36.445 --> 00:44:40.285

acknowledged there was, um, different research showing sort

929

00:44:40.285 --> 00:44:42.645

of different things on the point, but ultimately that, um,

930

00:44:42.865 --> 00:44:45.525

if to the extent there would be any localized temperature

931

00:44:45.645 --> 00:44:47.805

increase, it's not expected to be noticeable significance,

932

00:44:47.865 --> 00:44:49.805

it would be quite minor if,

933

00:44:49.905 --> 00:44:51.325

if in fact there was a near at all.

934

00:44:51.705 --> 00:44:55.005

Um, but I can, I'll come back to you in terms of, I mean,

935

00:44:55.045 --> 00:44:56.805

I expect the response then is that

936

00:44:56.805 --> 00:45:00.125

because of that limited effect, um, there's no, um,

937

00:45:00.235 --> 00:45:02.205

consequential effect in terms of mental health.

938

00:45:02.205 --> 00:45:03.365

But again, we'll respond in writing

939

00:45:03.385 --> 00:45:05.085

and make sure that, um, we do so.

940

00:45:05.625 --> 00:45:07.765

And again, I understand the, the steer

941

00:45:07.765 --> 00:45:09.165

that you've given us, I suspect. Okay.

942

00:45:09.295 --> 00:45:12.765

Thank you much. Okay, uh, apologies.

943

00:45:12.865 --> 00:45:15.725

I'm gonna move on a little bit now to, uh, fire safety and,

944

00:45:15.745 --> 00:45:18.045

and the potential impact on, on human health there.

945

00:45:18.465 --> 00:45:20.245

We did cover this yesterday specifically

946

00:45:20.405 --> 00:45:22.285

'cause uh, uh, Lincolnshire County Council very kindly

947

00:45:22.445 --> 00:45:24.045

provided their, uh, linker fire

948

00:45:24.045 --> 00:45:28.685

and rescue expert for our, uh, uh, advice yesterday on some.

949

00:45:28.705 --> 00:45:31.085

So some of these questions I did raise yesterday,

950

00:45:31.085 --> 00:45:32.845

so apologies if, if it feels like

951

00:45:32.845 --> 00:45:33.925

it's a little bit of repetition.

952

00:45:34.245 --> 00:45:36.005

I won't necessarily come to Lincoln Show

953

00:45:36.005 --> 00:45:37.205

unless they specifically want me to.

954

00:45:37.585 --> 00:45:38.765

Uh, but I will, uh,

955

00:45:38.765 --> 00:45:41.365

because there were some people who may have arrived today

956

00:45:41.365 --> 00:45:44.005

who wanted to ask questions specifically on this issue,

957

00:45:44.425 --> 00:45:46.885

or, um, people may have brought their own experts.

958

00:45:47.085 --> 00:45:48.005

'cause today was the day that we



959

00:45:48.005 --> 00:45:48.925

were scheduled to go through this.

960

00:45:49.195 --> 00:45:50.565

I'll go through it again for the benefit

961

00:45:50.585 --> 00:45:52.725

of those in the room and online as well.

962

00:45:53.745 --> 00:45:56.525

So, uh, just moving on to the first question again, uh,

963

00:45:56.525 --> 00:45:59.125

from yesterday was the, the data

964

00:45:59.125 --> 00:46:01.805

that the applicant has supplied shows there are currently,

965

00:46:01.985 --> 00:46:04.205

uh, about not 0.3

966

00:46:04.265 --> 00:46:06.365

or one in a third of a chance

967

00:46:06.365 --> 00:46:09.365

of a battery energy storage system, failure per year,

968

00:46:09.625 --> 00:46:12.125

per gigawatt of cumulative deployed capacity.

969

00:46:12.385 --> 00:46:16.485

So very roughly, uh, that's, um, an anticipation that nine

970

00:46:16.485 --> 00:46:19.125

of these battery energy storage systems may fail over

971

00:46:19.125 --> 00:46:20.325

the lifetime of the development.

972

00:46:21.615 --> 00:46:22.835

The other report and evidence

973

00:46:23.075 --> 00:46:25.355

provided by the Clean Energy Association indicates that

974

00:46:25.355 --> 00:46:27.555

of these systems that have been installed worldwide,

975

00:46:28.055 --> 00:46:31.115

26% have been found to have, uh,

976

00:46:31.115 --> 00:46:32.795

defective fire suppression systems

977

00:46:33.335 --> 00:46:37.475

and 18% had thermal management, uh, runaway defects.

978

00:46:40.095 --> 00:46:42.995

My my question moving on from that is, over the life

979

00:46:42.995 --> 00:46:45.835

of the development, there is very clear indication

980

00:46:45.835 --> 00:46:49.795

that whilst a fire may be unlikely, it cannot be discounted.

981

00:46:50.575 --> 00:46:52.115

Uh, Lincoln Ship Fire

982

00:46:52.115 --> 00:46:54.035

and Rescue Services have stated they're satisfied

983

00:46:54.035 --> 00:46:56.195

with the provisions that the applicant have made to, uh,

984

00:46:56.215 --> 00:46:59.515

for them to suppress an initial start of a fire

985

00:46:59.735 --> 00:47:01.875

and also for them to fight a fire on arrival.

986

00:47:02.735 --> 00:47:04.355

Uh, uh, and the applicant went through

987

00:47:04.355 --> 00:47:06.515

and explained, uh, those provisions yesterday.

988

00:47:07.135 --> 00:47:09.475

I'm interested, um, on the views

989

00:47:09.475 --> 00:47:12.675

of the parties in the room today, uh, particularly

990

00:47:12.675 --> 00:47:16.115

with the key safety objectives of that, that, um, the view

991

00:47:16.215 --> 00:47:17.995

of, uh, whether fire, smoke

992

00:47:18.115 --> 00:47:21.355

and any release of toxic gases does not significantly affect

993

00:47:21.785 --> 00:47:24.075

site operations, the first responders, the fire service

994

00:47:24.095 --> 00:47:26.515

and others, but specifically the impact

995

00:47:26.515 --> 00:47:28.275

that may have on the local community from a,

996

00:47:28.275 --> 00:47:29.310

from a fire on site.

997

00:47:29.865 --> 00:47:32.885

And then, uh, secondly that the, the fighting of

998

00:47:32.885 --> 00:47:35.165

that fire may lead to a pollution incident from firewater

999

00:47:35.165 --> 00:47:36.165

to run off into the ground

1000

00:47:36.265 --> 00:47:38.645

or perhaps a smoke plume from the site.

1001

00:47:39.025 --> 00:47:41.405

So those are the two things I'm trying to understand, uh,

1002

00:47:41.595 --> 00:47:44.125

your views and, uh, questions you'd like raised.

1003

00:47:44.505 --> 00:47:46.845

So, again, if it's okay, you answered

1004

00:47:46.845 --> 00:47:48.245

that question yesterday, you're more than welcome

1005

00:47:48.245 --> 00:47:50.005

to go over it again if you wish. But, um,

1006

00:47:50.815 --> 00:47:52.485

Thank you sir alexis com for the applicant.

1007

00:47:52.725 --> 00:47:54.485

I will definitely pass it over to our expert

1008

00:47:54.505 --> 00:47:57.845

who will be able to answer much, much, um, better.

1009

00:47:58.315 --> 00:48:01.565

It's Mr. Paul Gregory from BST and T Consultancy Services.

1010

00:48:08.205 --> 00:48:11.775

Good morning, sir. Um, yes, sorry, very sorry.

1011

00:48:12.055 --> 00:48:16.495

I wasn't here to, um, liaise with re fire rescue yesterday.

1012

00:48:16.835 --> 00:48:21.495

Um, I mean, just briefly to touch on, uh, some,

1013

00:48:21.595 --> 00:48:26.095

you know, statistical, uh, evidence about UK facilities

1014

00:48:26.195 --> 00:48:29.455

or, you know, the, basically we're seeing a,

1015

00:48:29.935 --> 00:48:34.695

a huge drop off in incidents for energy that

1016

00:48:34.995 --> 00:48:37.655

that's rolled out, um, on the yearly basis now,

1017

00:48:37.735 --> 00:48:41.815

I think there's been a 97% drop off in incidents from 2018

1018

00:48:41.815 --> 00:48:43.255

to 2023, for example.

1019

00:48:44.075 --> 00:48:48.655

And here in the uk, um, currently, well, in 2023,

1020

00:48:48.775 --> 00:48:53.575

I think there's about 1.6 gigawatts of, uh, bes uh,

1021

00:48:53.575 --> 00:48:56.735

installed across 92 sites with sort

1022

00:48:56.735 --> 00:49:00.495

of four 4.8 million hours of operation time,

1023

00:49:00.665 --> 00:49:03.815

which is about 548 operational years.

1024

00:49:04.395 --> 00:49:08.135

Um, there were, there's been one major incident so far,

1025

00:49:08.165 --> 00:49:09.575

Liverpool, Carnegie Road.

1026

00:49:10.595 --> 00:49:15.255

Um, so basically, uh, this equates to two point 11 e

1027

00:49:15.255 --> 00:49:18.095

to the minus seven, so 0.0

1028

00:49:18.405 --> 00:49:23.135

0 0 0 0 2 1 1 failures per hour for,

1029

00:49:23.435 --> 00:49:25.215

for best installed in the uk.

1030

00:49:25.715 --> 00:49:27.695

Now, this aligns with the health

1031

00:49:27.695 --> 00:49:30.895

and safety executive expectations as an acceptable level

1032

00:49:30.895 --> 00:49:33.375

of risk, as low as reasonably practicable.

1033

00:49:34.275 --> 00:49:37.295

Um, and this is covered in sort of publications such

1034

00:49:37.295 --> 00:49:38.375

as reducing risk

1035

00:49:38.395 --> 00:49:42.495

and protecting people published by the HSE, um,

1036

00:49:43.075 --> 00:49:46.295

an ongoing project I'm involved with typical,

1037

00:49:46.565 --> 00:49:48.055

similar sort of DCO.

1038

00:49:48.155 --> 00:49:52.095

So, uh, with, uh, risk analysis, obviously

1039

00:49:52.095 --> 00:49:54.935

that's conducted at the detailed design stage when you know,

1040  
00:49:54.935 --> 00:49:57.975  
the battery system and the site specific risk assessments.

1041  
00:49:58.155 --> 00:50:02.855  
But, um, there were two elements, um,

1042  
00:50:03.435 --> 00:50:05.615  
uh, failure modes and effect analysis

1043  
00:50:05.955 --> 00:50:08.735  
and layer of protection analysis, which is now conducted,

1044  
00:50:09.235 --> 00:50:12.375  
um, for all sort of best systems and projects.

1045  
00:50:12.875 --> 00:50:16.735  
And we've conducted a, a layer of protection analysis for a,

1046  
00:50:16.975 --> 00:50:19.255  
a typical best that's now installed in the uk.

1047  
00:50:19.395 --> 00:50:22.295  
So this is a, a liquid cool system, not air cooled.

1048  
00:50:22.295 --> 00:50:25.815  
They're safer, uh, containing LFP prismatic cells,

1049  
00:50:25.815 --> 00:50:28.965  
which are the dominant battery technology currently been

1050  
00:50:28.965 --> 00:50:29.965  
installed in the uk.

1051  
00:50:30.785 --> 00:50:33.245  
And so the estimated frequency

1052  
00:50:33.245 --> 00:50:35.645  
of cell venting from this analysis,

1053  
00:50:35.705 --> 00:50:40.045

so this is using very well-defined, uh, equipment failure.

1054

00:50:40.225 --> 00:50:44.005

So anything that's, uh, installed in the best enclosures,

1055

00:50:44.065 --> 00:50:46.805

you know, they're very much so organizations such

1056

00:50:46.805 --> 00:50:50.405

as DMV produce sort of failure rates and equipment manuals.

1057

00:50:50.785 --> 00:50:54.245

So we have up to the minute sort of data on failure rates,

1058

00:50:54.905 --> 00:50:58.245

and basically the frequency of a cell venting event

1059

00:50:58.265 --> 00:51:00.245

for this type of latest system

1060

00:51:00.785 --> 00:51:03.005

is once every 3 million years.

1061

00:51:03.785 --> 00:51:07.765

Uh, which equates to about 1.3 to 10,

1062

00:51:07.765 --> 00:51:11.125

to the minus four per year for a large scale best project

1063

00:51:11.755 --> 00:51:14.685

incorporating more than 200 best enclosures.

1064

00:51:15.515 --> 00:51:19.775

Um, so this is, you know,

1065

00:51:21.175 --> 00:51:26.135

a, with the improvement in controls

1066

00:51:26.135 --> 00:51:27.335

and monitoring, uh,



1067

00:51:27.395 --> 00:51:32.335

and data analytics, uh, the ability to spot safety issues,

1068

00:51:33.075 --> 00:51:37.175

um, before they occur, and from an maintenance perspective

1069

00:51:37.315 --> 00:51:41.615

and minimizing the outcomes of an incident, IE not a fire,

1070

00:51:42.075 --> 00:51:43.975

the system is automatically shut down.

1071

00:51:44.595 --> 00:51:48.215

Um, you know, that's, uh, improved tremendously

1072

00:51:48.755 --> 00:51:52.295

and with the, uh, latest revisions to certifications

1073

00:51:52.315 --> 00:51:53.415

and standards for best.

1074

00:51:53.515 --> 00:51:56.495

So next year, for example, NFPA 8 5 5,

1075

00:51:56.495 --> 00:51:58.575

which is the global standard

1076

00:51:58.675 --> 00:52:02.895

for energy storage system safety, um, has

1077

00:52:03.685 --> 00:52:05.055

many, many improvements

1078

00:52:05.155 --> 00:52:08.615

and standards across the range of equipment, you know,

1079

00:52:08.615 --> 00:52:11.295

as referenced, whether it's far suppression equipment,

1080

00:52:11.295 --> 00:52:14.415

battery systems, controls, monitoring, explosion,

1081

00:52:14.415 --> 00:52:15.775

prevention, and protection systems.

1082

00:52:16.435 --> 00:52:19.775

So, you know, I could, if you'd like me to sort of, uh,

1083

00:52:19.835 --> 00:52:23.495

dig down more into the, uh, root cause categories, if

1084

00:52:23.495 --> 00:52:25.495

that would be useful, or, uh,

1085

00:52:26.095 --> 00:52:28.175

appreciating the limited time today.

1086

00:52:28.475 --> 00:52:30.335

Um, you know, I'd be happy to,

1087

00:52:30.515 --> 00:52:32.895

but, um, yeah, that's just a little bit sort

1088

00:52:32.895 --> 00:52:35.415

of looking at the sort of statistical sort

1089

00:52:35.415 --> 00:52:37.295

of probability of, of an incident.

1090

00:52:38.635 --> 00:52:40.695

Oh, thank you. Uh, Mr. Gregory, um, I I,

1091

00:52:41.125 --> 00:52:42.975

what you're raising is, is coming to me

1092

00:52:43.035 --> 00:52:45.335

and leading to two further questions if you, one is,

1093

00:52:46.195 --> 00:52:47.735

I'm probably not surprised that the,

1094

00:52:47.835 --> 00:52:49.295  
the growth in technology and the,

1095

00:52:49.295 --> 00:52:52.575  
and the rapid expansion in technology has driven a, uh,

1096

00:52:52.695 --> 00:52:55.495  
a rapid improvement in safety from perhaps the

1097

00:52:55.695 --> 00:52:56.735  
original figures we cited.

1098

00:52:57.495 --> 00:53:00.415  
I think there's, there's two things I would, um, like

1099

00:53:00.415 --> 00:53:02.015  
to hear from you further, if that's okay.

1100

00:53:02.755 --> 00:53:05.735  
The first is for the benefits of those as, um, um,

1101

00:53:05.965 --> 00:53:07.895  
I've had the luxury of dealing with some battery fires,

1102

00:53:07.915 --> 00:53:12.775  
but, um, for those of us who haven't, um, could you describe

1103

00:53:13.125 --> 00:53:15.375  
what a, uh, thermal runaway looks like

1104

00:53:15.635 --> 00:53:18.735  
and how it might, uh, be managed on the site here locally,

1105

00:53:19.155 --> 00:53:20.855  
uh, for the benefits of the local community,

1106

00:53:20.855 --> 00:53:22.095  
what they might expect?

1107

00:53:23.075 --> 00:53:24.655

Uh, and then I can, I can give you a second

1108

00:53:24.775 --> 00:53:25.775

Question. I can give it afterwards if you wish,

1109

00:53:25.775 --> 00:53:25.775

1110

00:53:25.775 --> 00:53:26.685

whichever's easier for you.

1111

00:53:29.935 --> 00:53:31.005

Thank you, sir. Um,

1112

00:53:31.825 --> 00:53:34.485

so there are obviously many different variables that, uh,

1113

00:53:34.485 --> 00:53:37.485

for each battery system and best enclosure, but yes, so,

1114

00:53:37.785 --> 00:53:40.745

and I, and I don't like to generalize

1115

00:53:40.745 --> 00:53:43.025

because, you know, the risk is obviously is,

1116

00:53:43.165 --> 00:53:46.625

is specifically driven, uh, by a lot of these variables,

1117

00:53:46.925 --> 00:53:51.145

but yes, just, um, so obviously what we've had, um,

1118

00:53:51.815 --> 00:53:55.025

with the increase in, uh, standards

1119

00:53:55.025 --> 00:53:57.345

and testing demands for batteries

1120

00:53:57.345 --> 00:53:59.825

and best equipment is that, you know, we, outside

1121

00:53:59.825 --> 00:54:03.345  
of real world incidents, um, that have been recorded, um,

1122  
00:54:04.305 --> 00:54:08.185  
specifically by the EPR database, which logs every incident

1123  
00:54:08.405 --> 00:54:12.965  
that's, that's logged, um, within the last sort

1124  
00:54:12.965 --> 00:54:14.925  
of two years, uh, a lot

1125  
00:54:14.925 --> 00:54:18.045  
of the tier one OEMs have con conducted full

1126  
00:54:18.175 --> 00:54:19.525  
scale destruction testing.

1127  
00:54:19.785 --> 00:54:22.765  
So that's, uh, taken a whole battery system

1128  
00:54:22.825 --> 00:54:23.845  
and a best enclosure

1129  
00:54:24.425 --> 00:54:26.685  
and sort of setting it into thermal runaway

1130  
00:54:27.545 --> 00:54:31.365  
and looking at the, the fire impacts, the toxic emission

1131  
00:54:31.955 --> 00:54:34.405  
impacts and looking at things like timeframe

1132  
00:54:34.745 --> 00:54:37.805  
and, uh, suppression and, and mitigation strategies.

1133  
00:54:37.875 --> 00:54:42.405  
Okay, so generally speaking, uh, the peak fire load,

1134  
00:54:42.745 --> 00:54:46.205  
um, so that's when the most battery cells are

1135

00:54:46.745 --> 00:54:49.685

in thermal runaway at the same time, normally that event.

1136

00:54:49.785 --> 00:54:52.245

So within a best enclosure, you have to think,

1137

00:54:52.795 --> 00:54:54.045

typically you might get up

1138

00:54:54.045 --> 00:54:56.245

to eight different battery modules in a battery rack,

1139

00:54:56.585 --> 00:55:01.365

and you might have sort of between two racks, uh,

1140

00:55:02.145 --> 00:55:04.005

two around maybe sort of seven

1141

00:55:04.265 --> 00:55:06.805

or eight racks depending on the size of the container.

1142

00:55:06.905 --> 00:55:09.645

So if you think if there's a thermal runaway event

1143

00:55:10.025 --> 00:55:14.285

and the cells we call propagation, so one cell when it sort

1144

00:55:14.285 --> 00:55:17.165

of, uh, will spread that thermal runaway process

1145

00:55:17.385 --> 00:55:18.845

to the other cell within the module,

1146

00:55:19.265 --> 00:55:23.285

and then the module to module basis, typically the, the peak

1147

00:55:23.305 --> 00:55:26.525

of that fire event, so when it's producing the most heat,

1148

00:55:26.615 --> 00:55:29.085  
flame and emissions is sort

1149  
00:55:29.085 --> 00:55:30.765  
of typically over one to two hours.

1150  
00:55:31.025 --> 00:55:34.885  
Now, it depends on the state of charge, uh, how the, uh,

1151  
00:55:34.885 --> 00:55:37.085  
the battery racks are spaced, any sort

1152  
00:55:37.085 --> 00:55:39.925  
of mitigation features within there, but let's use that.

1153  
00:55:40.155 --> 00:55:42.205  
This is data based on real world

1154  
00:55:42.305 --> 00:55:43.885  
and sort of current system testing.

1155  
00:55:44.145 --> 00:55:47.125  
So, uh, typically that's one to two hours, so

1156  
00:55:47.125 --> 00:55:49.245  
that will be generating the most flame

1157  
00:55:49.585 --> 00:55:51.085  
and emissions at that point.

1158  
00:55:51.705 --> 00:55:55.205  
Uh, typically then you'd be looking at that,

1159  
00:55:55.205 --> 00:55:59.205  
that far event being four over a four to eight hour period.

1160  
00:55:59.515 --> 00:56:03.795  
Okay. Um, so this is basically,

1161  
00:56:04.455 --> 00:56:06.915  
uh, it does depend on the state of charge

1162

00:56:07.255 --> 00:56:09.355

and the over pressures that are generated.

1163

00:56:09.355 --> 00:56:10.555

But typically each cell,

1164

00:56:10.815 --> 00:56:15.395

if they're large scale LFP prismatic cells sort of burn

1165

00:56:15.535 --> 00:56:19.555

for 20 to 45 seconds during thermal runaway.

1166

00:56:19.625 --> 00:56:20.835

Okay. Um,

1167

00:56:22.325 --> 00:56:26.395

and typically those cells that are currently,

1168

00:56:26.865 --> 00:56:29.355

that I've, I've reviewed, I've been involved with testing,

1169

00:56:29.785 --> 00:56:32.595

typically, they, they produce between 200

1170

00:56:32.655 --> 00:56:35.155

and 400 liters of gas during

1171

00:56:35.155 --> 00:56:37.955

that thermal runaway venting process.

1172

00:56:38.865 --> 00:56:42.435

Okay? When they're burning, typically they produce carbon

1173

00:56:43.185 --> 00:56:47.275

dioxide, nitrogen, carbon monoxide with sort of lower levels

1174

00:56:47.375 --> 00:56:50.755

of hydrogen and hydro hydrocarbon gases.

1175



00:56:51.535 --> 00:56:54.915

If the thermal runaway event is not an actual burning fire

1176

00:56:55.095 --> 00:56:57.115

to start off, where if it's venting the gas,

1177

00:56:57.705 --> 00:57:01.835

then typically the gas mixtures will produce higher levels

1178

00:57:01.855 --> 00:57:04.235

of hydrogen and hydrocarbon gases.

1179

00:57:04.775 --> 00:57:08.475

So the, the fire basically changes the chemical composition

1180

00:57:08.975 --> 00:57:10.355

of, of the vented gases.

1181

00:57:10.425 --> 00:57:15.395

Okay. So, again, module sizes vary the number of cells,

1182

00:57:15.775 --> 00:57:19.435

but typically from these large scale systems I've described,

1183

00:57:20.015 --> 00:57:23.755

um, the time for a, a battery module to fully propagate.

1184

00:57:23.775 --> 00:57:26.715

So for every cell to go into thermal runaway is typically

1185

00:57:26.715 --> 00:57:28.515

ranged from six to 14 minutes.

1186

00:57:29.775 --> 00:57:31.795

And what else you have in there is,

1187

00:57:31.855 --> 00:57:34.395

is generally plastics, other combustibles.

1188

00:57:34.655 --> 00:57:39.355

So outside that 16 to four, six to 14 minutes, uh, we see

1189

00:57:39.355 --> 00:57:41.795

that the burnout of all the combust, uh,

1190

00:57:41.795 --> 00:57:44.755

of all the combustibles in those battery modules is

1191

00:57:44.755 --> 00:57:47.315

typically over 20 to 40 minutes.

1192

00:57:47.745 --> 00:57:51.035

Okay. So basically that module, um,

1193

00:57:52.265 --> 00:57:54.355

will sort of fully burn out, sort

1194

00:57:54.355 --> 00:57:57.235

of generally speaking within a 50 minute sec,

1195

00:57:57.445 --> 00:57:58.915

50 minute timeframe.

1196

00:57:59.295 --> 00:58:00.635

So all the gases have gone.

1197

00:58:01.135 --> 00:58:05.035

And then, so normally when the cells undergoing thermal

1198

00:58:05.055 --> 00:58:07.755

or runaway, and all the cells are spent in the module,

1199

00:58:08.835 --> 00:58:12.475

normally that's burnt through sort of 40 to 50%

1200

00:58:12.695 --> 00:58:13.755

of the plastics.

1201

00:58:14.175 --> 00:58:16.955

So typically in that sort of four to eight hour period,

1202

00:58:17.545 --> 00:58:20.595  
it's generally burning that, that plastics and combustibles.

1203  
00:58:20.825 --> 00:58:24.155  
Okay. But as I mentioned, the number of modules, the,

1204  
00:58:24.155 --> 00:58:26.475  
the layout within that enclosure, uh,

1205  
00:58:26.545 --> 00:58:29.635  
affects the propagation times between modules and bet

1206  
00:58:29.975 --> 00:58:31.275  
and between battery racks.

1207  
00:58:31.385 --> 00:58:36.035  
Okay. But assuming a two hour, uh, peak fire, um,

1208  
00:58:36.295 --> 00:58:39.875  
you know, at that height of the thermal runaway, uh,

1209  
00:58:40.425 --> 00:58:43.315  
each cell will be releasing about three grams

1210  
00:58:43.575 --> 00:58:45.155  
of vent gas per second.

1211  
00:58:45.505 --> 00:58:50.035  
Okay? So typically, um, the peak

1212  
00:58:50.825 --> 00:58:54.275  
rate across a wrap thermal runaway at

1213  
00:58:54.275 --> 00:58:57.515  
that peak time is 48 grams per second.

1214  
00:58:57.615 --> 00:58:59.715  
So, you know, you've got more than one cell

1215  
00:59:00.395 --> 00:59:01.795  
involved at the peak rate.

1216

00:59:02.585 --> 00:59:04.115

Okay. So, um,

1217

00:59:05.645 --> 00:59:06.645

Thank you. I, I, I,

1218

00:59:06.645 --> 00:59:09.795

I think thank you very much, Mr. Gregory.

1219

00:59:09.795 --> 00:59:11.875

You're describing to me the process and you just,

1220

00:59:11.875 --> 00:59:13.875

and interestingly, you know, the, the timescales of

1221

00:59:13.895 --> 00:59:15.915

how the femoral remic might take place,

1222

00:59:16.215 --> 00:59:19.195

and then if you like, move to the sacrificial materials

1223

00:59:19.195 --> 00:59:20.875

that are left in the racking, the plastics.

1224

00:59:20.875 --> 00:59:23.165

And what you, what I'm really interested in is from the

1225

00:59:23.325 --> 00:59:24.405

residents of the local community

1226

00:59:24.425 --> 00:59:26.485

who may live a few hundred meters away from one

1227

00:59:26.485 --> 00:59:30.765

of these battery storage systems, what am I going to see?

1228

00:59:30.995 --> 00:59:32.165

What am I gonna feel?

1229

00:59:32.705 --> 00:59:33.805  
And, uh, what I'm trying

1230  
00:59:33.805 --> 00:59:35.285  
to get a sense from you is there's a number of scenarios.

1231  
00:59:35.285 --> 00:59:37.285  
You may get a pure venting gas scenario,

1232  
00:59:37.505 --> 00:59:40.685  
or you may get a, a configuration of, of flame.

1233  
00:59:41.345 --> 00:59:43.405  
Uh, am I going to see a lot

1234  
00:59:43.405 --> 00:59:44.845  
of black smoke drifting over my house?

1235  
00:59:45.065 --> 00:59:49.265  
Am I gonna get a very clean fire? Potentially

1236  
00:59:52.175 --> 00:59:53.505  
Paul Gregory for the applicant?

1237  
00:59:53.685 --> 00:59:55.665  
Uh, thank you, sir. Um, so with regards

1238  
00:59:55.685 --> 00:59:58.945  
to a burning thermal runaway incident,

1239  
00:59:58.955 --> 01:00:02.705  
which from a toxic emission perspective, you know, uh,

1240  
01:00:02.705 --> 01:00:05.625  
that is, uh, that will generate sort of a higher level,

1241  
01:00:06.125 --> 01:00:07.185  
uh, of emissions.

1242  
01:00:07.605 --> 01:00:10.785  
So, so typically, again, it varies by chemistry,

1243

01:00:10.785 --> 01:00:12.185  
cell design, state of charge,

1244

01:00:12.245 --> 01:00:16.025  
but so typically what you would expect to see in a,

1245

01:00:16.045 --> 01:00:20.225  
in a batch of fire is levels of, uh, hydrogen chloride,

1246

01:00:20.665 --> 01:00:24.545  
hydrogen fluoride, hydrogen cyanide, and carbon monoxide.

1247

01:00:24.555 --> 01:00:28.345  
These would be, uh, commonly produced gases.

1248

01:00:28.965 --> 01:00:31.985  
Um, so DNV, for example, has found that, you know,

1249

01:00:31.985 --> 01:00:36.105  
battery fires, uh, comparable to typical battery fires,

1250

01:00:36.655 --> 01:00:39.345  
with the exception that at the peak rate

1251

01:00:39.345 --> 01:00:43.545  
that I just described, um, the battery

1252

01:00:44.865 --> 01:00:48.065  
emissions would typically be, uh, higher.

1253

01:00:48.885 --> 01:00:52.665  
Um, but when taken as an event at the hole, it's lower

1254

01:00:53.285 --> 01:00:57.505  
per kilogram of materials in comparison to a plastic fire.

1255

01:00:57.895 --> 01:01:02.065  
Okay? Um, again, based on, uh,

1256

01:01:03.595 --> 01:01:05.285  
real will testing

1257  
01:01:05.425 --> 01:01:08.645  
and full scale testing that we've conducted recently, uh,

1258  
01:01:09.605 --> 01:01:12.135  
each battery OEM is now able to

1259  
01:01:13.385 --> 01:01:16.105  
categorize what they produce.

1260  
01:01:16.575 --> 01:01:20.145  
Okay. And we're even looking so that the UK Health

1261  
01:01:20.145 --> 01:01:22.905  
and Security Agency on best projects.

1262  
01:01:22.965 --> 01:01:25.025  
Now, we're also looking at, uh,

1263  
01:01:25.045 --> 01:01:26.985  
for the site specific detailed cons,

1264  
01:01:27.055 --> 01:01:28.985  
consequence modeling based on the battery

1265  
01:01:29.045 --> 01:01:30.825  
system and the site layout.

1266  
01:01:31.325 --> 01:01:34.745  
We also look at particulate matter, which is produced in,

1267  
01:01:34.765 --> 01:01:35.905  
in any fire as well.

1268  
01:01:36.325 --> 01:01:38.305  
So the whole range of anything

1269  
01:01:38.305 --> 01:01:41.185  
that's omitted is considered at that modeling.

1270

01:01:42.005 --> 01:01:46.745

Now, typically what we've seen integrating

1271

01:01:47.615 --> 01:01:52.465

data from full scale burn tests is that, uh, so

1272

01:01:52.465 --> 01:01:56.905

for example, a, a project, um, earlier last year, um,

1273

01:01:57.615 --> 01:02:02.305

with DMV for, for axminster, um, all

1274

01:02:02.305 --> 01:02:07.095

of the, uh, emissions were categorized, um,

1275

01:02:07.105 --> 01:02:09.175

parts per million, um,

1276

01:02:10.045 --> 01:02:12.495

full scale consequence modeling was conducted,

1277

01:02:13.075 --> 01:02:17.775

and any emission, uh, was found that within,

1278

01:02:18.475 --> 01:02:21.445

uh, 35 meters of the best enclosure,

1279

01:02:21.955 --> 01:02:25.485

they were at levels at the lowest level of risk.

1280

01:02:25.825 --> 01:02:29.045

Uh, IDLH levels majorly dangerous to life

1281

01:02:29.045 --> 01:02:31.685

and health for residents typically.

1282

01:02:32.425 --> 01:02:35.885

So ultimately, uh, firefighters

1283



01:02:35.945 --> 01:02:38.565  
and site operations are the primary

1284  
01:02:39.185 --> 01:02:40.885  
safety concern for emissions.

1285  
01:02:41.555 --> 01:02:44.605  
Okay? Typically, uh, again,

1286  
01:02:44.605 --> 01:02:47.165  
we also look at smoke impacts on visibility

1287  
01:02:47.385 --> 01:02:50.165  
for road transport networks, et cetera, et cetera.

1288  
01:02:50.425 --> 01:02:53.565  
And again, typically for any, uh,

1289  
01:02:55.325 --> 01:02:56.925  
modeling that I've seen for,

1290  
01:02:57.215 --> 01:02:59.565  
based on full scale burn testing

1291  
01:03:00.545 --> 01:03:02.925  
is typically within 50 meters.

1292  
01:03:03.265 --> 01:03:05.365  
The impacts, whether it's on visibility

1293  
01:03:06.105 --> 01:03:08.965  
or toxic emission, are at safe levels.

1294  
01:03:09.185 --> 01:03:11.125  
So anything will be

1295  
01:03:12.645 --> 01:03:14.575  
contained within the site boundary.

1296  
01:03:14.575 --> 01:03:17.015  
However, in emergency response plan,

1297

01:03:17.075 --> 01:03:20.135

you will have people on site boundaries taking the

1298

01:03:20.335 --> 01:03:23.815

requisite, uh, monitoring to ensure that, uh,

1299

01:03:23.875 --> 01:03:26.655

levels are safe at the site boundaries.

1300

01:03:27.115 --> 01:03:28.535

And, you know, typically, again,

1301

01:03:28.635 --> 01:03:31.855

in your emergency response plan, that will be integrated

1302

01:03:32.285 --> 01:03:33.575

with alerts

1303

01:03:33.575 --> 01:03:35.775

and protocols for, uh,

1304

01:03:35.785 --> 01:03:38.095

local health resilience forums, et cetera.

1305

01:03:38.485 --> 01:03:43.095

Okay? So that's, again, based on all the risk assessments

1306

01:03:43.095 --> 01:03:45.455

and the consequence modeling conducted

1307

01:03:45.455 --> 01:03:48.495

for the actual battery systems and the site plans.

1308

01:03:48.635 --> 01:03:51.975

But just again, you know, referring back

1309

01:03:52.115 --> 01:03:54.895

to my own experience on, you know,

1310

01:03:55.175 --> 01:03:58.735  
multiple best projects in the uk, you know, where you have,

1311  
01:03:58.915 --> 01:04:01.175  
you know, obviously concerned residents

1312  
01:04:01.175 --> 01:04:04.335  
that are worried about evacuating schools that you know,

1313  
01:04:04.355 --> 01:04:07.295  
are, uh, 1.5 miles away, et cetera.

1314  
01:04:07.675 --> 01:04:11.015  
The reality is, you know, smoke

1315  
01:04:11.635 --> 01:04:14.815  
and the emissions dissipate exceedingly quickly,

1316  
01:04:15.715 --> 01:04:18.165  
um, in, in the air.

1317  
01:04:18.625 --> 01:04:22.725  
So hydrogen fluoride, for example's in organic, it reacts

1318  
01:04:23.145 --> 01:04:27.165  
and as, and changes back to hydrogen on contact with, uh,

1319  
01:04:27.185 --> 01:04:31.085  
rubber, uh, glass, uh, various materials.

1320  
01:04:31.145 --> 01:04:33.885  
So what you need to consider is that, you know,

1321  
01:04:33.945 --> 01:04:35.765  
the battery vents, but that's in a module.

1322  
01:04:36.465 --> 01:04:38.645  
So a lot is contained actually within the module,

1323  
01:04:38.985 --> 01:04:40.965  
the module vents outta the battery rack.

1324

01:04:41.065 --> 01:04:44.525

So that, again, much is contained in the container.

1325

01:04:44.865 --> 01:04:49.285

So the fires that the basically will burn, typically exit

1326

01:04:49.285 --> 01:04:52.365

through the gas exhaust system or deflation vents.

1327

01:04:52.785 --> 01:04:55.685

So typically they'd be, you know, say two

1328

01:04:55.685 --> 01:04:56.765

and a half meters high.

1329

01:04:56.985 --> 01:05:00.925

So at the peak height, you know, you might see flames sort

1330

01:05:00.925 --> 01:05:03.405

of reaching up to about four meters in height outta the,

1331

01:05:03.625 --> 01:05:04.925

the top of the container.

1332

01:05:05.345 --> 01:05:07.525

But again, you know, uh, some of the,

1333

01:05:07.625 --> 01:05:10.685

the full scale burn tests that we've done, uh, you know,

1334

01:05:10.685 --> 01:05:14.165

there's been monitoring at sort of 20 feet, uh,

1335

01:05:15.505 --> 01:05:18.205

at head, head height at at two meters,

1336

01:05:18.545 --> 01:05:20.685

and even sort of within a 10 meter radius

1337

01:05:20.685 --> 01:05:21.765  
at a two meter height.

1338  
01:05:22.185 --> 01:05:25.565  
Uh, levels have been at the lowest ILH levels,

1339  
01:05:26.145 --> 01:05:27.405  
um, that were required.

1340  
01:05:27.785 --> 01:05:30.325  
And any best scheme, as, as the condition at the end,

1341  
01:05:30.505 --> 01:05:34.285  
you know, will be producing, uh, site specific, uh,

1342  
01:05:34.755 --> 01:05:35.765  
consequence modeling.

1343  
01:05:36.305 --> 01:05:39.005  
And the revised NFCC guidance, which is likely

1344  
01:05:39.005 --> 01:05:43.565  
to be published in in Q1 this year, um, defines, uh,

1345  
01:05:44.085 --> 01:05:47.565  
sensitive receptors that must be considered within one

1346  
01:05:47.635 --> 01:05:49.965  
kilometer of the best areas.

1347  
01:05:50.305 --> 01:05:53.845  
So again, on a scheme like this, typically the,

1348  
01:05:54.185 --> 01:05:58.125  
the consequence modeling will be incorporating all those,

1349  
01:05:58.745 --> 01:06:01.125  
uh, definitions of sensitive receptives.

1350  
01:06:01.255 --> 01:06:04.485  
Thank you. Uh, thank you Mr. Gregory.

1351

01:06:04.485 --> 01:06:06.685

Uh, just, just one final follow up questions about,

1352

01:06:07.065 --> 01:06:09.325

you know, you've described, again, I think thank you on

1353

01:06:09.325 --> 01:06:11.085

what I wanted was a bit more clarity about what,

1354

01:06:11.085 --> 01:06:13.085

what people will see outside the box, if you like.

1355

01:06:13.085 --> 01:06:15.525

So thank you for that and what, what the risks to people

1356

01:06:15.755 --> 01:06:18.765

outside the box at various standoff distances are.

1357

01:06:18.865 --> 01:06:20.005

So, uh, thank you.

1358

01:06:20.585 --> 01:06:22.485

Um, you, I I'm just gonna ask

1359

01:06:22.485 --> 01:06:23.525

one more question and I'll come to you, Mr.

1360

01:06:23.525 --> 01:06:24.565

Opinion, if that's okay. Thank you.

1361

01:06:24.865 --> 01:06:27.045

Um, one question I wanted to ask is, you've,

1362

01:06:27.045 --> 01:06:30.805

you've described a battery storage system as a large box.

1363

01:06:30.805 --> 01:06:32.245

Effectively, we've, we've rack racking

1364

01:06:32.625 --> 01:06:35.365  
and, uh, arrays of batteries in there,

1365  
01:06:35.825 --> 01:06:38.365  
but we've had a lot from the applicant about moving

1366  
01:06:38.385 --> 01:06:40.725  
to a different technology for this site, which is, uh,

1367  
01:06:40.785 --> 01:06:44.205  
an inline, uh, DC coupled battery storage system,

1368  
01:06:44.455 --> 01:06:47.925  
which is much smaller, more discreet batteries stored, uh,

1369  
01:06:47.955 --> 01:06:52.245  
much more frequently, as I understand alongside the panel.

1370  
01:06:52.305 --> 01:06:56.525  
So it sounds very different to the type of, um, uh, incident

1371  
01:06:56.525 --> 01:06:58.525  
that you were describing, the, the potential incident.

1372  
01:06:58.525 --> 01:07:01.005  
So I wonder if there's any, uh, correlation

1373  
01:07:01.005 --> 01:07:03.405  
between those two or any similarities or any differences,

1374  
01:07:05.695 --> 01:07:07.195  
Uh, Paul Gregory for the applicant?

1375  
01:07:07.655 --> 01:07:11.755  
Um, so no, so the, the, the best enclosure,

1376  
01:07:12.455 --> 01:07:14.115  
um, so that's the battery system

1377  
01:07:14.175 --> 01:07:17.315  
and all the, uh, integrated equipment in there,

1378

01:07:17.725 --> 01:07:19.875

those are exactly the same, the same,

1379

01:07:19.905 --> 01:07:23.235

whether it's an AC coupled or a DC coupled system.

1380

01:07:23.615 --> 01:07:27.395

So typically because of the cabling, the DC coupled the,

1381

01:07:27.395 --> 01:07:29.675

the best need to be closer to the solar panel.

1382

01:07:29.905 --> 01:07:31.595

Typically, what you'll have seen on,

1383

01:07:31.895 --> 01:07:34.595

so typically there'll be more smaller clusters

1384

01:07:34.595 --> 01:07:35.595

of best areas.

1385

01:07:35.905 --> 01:07:37.915

Okay. So typically what you've seen in,

1386

01:07:37.935 --> 01:07:40.395

in this area on the other project is AC coupled

1387

01:07:40.485 --> 01:07:44.315

where typically you'd, your best is stored, uh, in one

1388

01:07:44.885 --> 01:07:48.395

large site, but that's specifically the, the cabling,

1389

01:07:48.655 --> 01:07:50.315

the battery energy storage system,

1390

01:07:50.335 --> 01:07:52.875

and the enclosure designs are exactly the same.

1391



01:07:53.915 --> 01:07:55.105  
Thank you. Okay.

1392  
01:07:59.555 --> 01:08:01.105  
Sorry. Uh, yes, uh, Mrs.

1393  
01:08:01.105 --> 01:08:02.505  
Bingham, if you'd like to speak, please.

1394  
01:08:06.445 --> 01:08:07.465  
Oh, yeah, good idea.

1395  
01:08:08.315 --> 01:08:09.505  
Thank you. Sue Bingham.

1396  
01:08:10.045 --> 01:08:13.905  
Um, this gentleman is speaking of testing

1397  
01:08:15.025 --> 01:08:18.325  
and the compounds being in isolation,

1398  
01:08:18.985 --> 01:08:23.165  
but as we know, fire spreads, I was involved with a

1399  
01:08:23.685 --> 01:08:27.165  
standing crop field fire two summers ago,

1400  
01:08:27.855 --> 01:08:29.205  
which was really frightening.

1401  
01:08:29.265 --> 01:08:30.285  
The speed it traveled,

1402  
01:08:31.345 --> 01:08:35.185  
two fire engines from Lincolnshire services turned up,

1403  
01:08:35.525 --> 01:08:36.745  
and with respect to them,

1404  
01:08:37.295 --> 01:08:40.065  
they would not have coped with that fire.

1405

01:08:41.375 --> 01:08:45.355

If a number of farmers hadn't come out with drags

1406

01:08:45.415 --> 01:08:48.635

and back dragged around the crop, that just would,

1407

01:08:48.635 --> 01:08:50.235

they would not have controlled it.

1408

01:08:50.895 --> 01:08:54.675

And we know fire spreads, so it might not even be the best

1409

01:08:54.785 --> 01:08:55.995

that gets on fire.

1410

01:08:56.375 --> 01:09:00.035

It might be a standing field fire that travels to them.

1411

01:09:00.895 --> 01:09:01.995

It could be the other way.

1412

01:09:02.695 --> 01:09:07.015

And if there are multiple fires from the fallout,

1413

01:09:08.755 --> 01:09:09.855

how would anybody cope?

1414

01:09:10.115 --> 01:09:12.695

You certainly need a lot of farmers to backtrack.

1415

01:09:13.535 --> 01:09:16.315

Um, I just cannot see that it would be,

1416

01:09:16.535 --> 01:09:19.595

um, you could cope with it.

1417

01:09:20.085 --> 01:09:21.275

Thank you very much. Thank You

1418

01:09:22.055 --> 01:09:23.055  
To the applicant. I just would give

1419  
01:09:23.055 --> 01:09:24.635  
you the right. I appreciate you, uh,

1420  
01:09:24.635 --> 01:09:26.795  
talk about distancing of the storage units themselves

1421  
01:09:26.815 --> 01:09:28.555  
to present, uh, and you've

1422  
01:09:29.435 --> 01:09:31.235  
provided evidence about spacing of those.

1423  
01:09:31.545 --> 01:09:32.875  
What I'm interested in, in what Mr.

1424  
01:09:32.875 --> 01:09:34.075  
Bingham just raised, is the potential

1425  
01:09:34.075 --> 01:09:36.315  
for external risks onto your site as well,

1426  
01:09:36.495 --> 01:09:38.115  
and also the potential for fire to spread

1427  
01:09:38.115 --> 01:09:40.035  
amongst other elements as Mrs.

1428  
01:09:40.035 --> 01:09:41.115  
Bingham has just raised.

1429  
01:09:44.175 --> 01:09:45.425  
Paul Gregory for the applicant.

1430  
01:09:45.925 --> 01:09:47.545  
Uh, thanks, thanks for your question.

1431  
01:09:48.325 --> 01:09:52.625  
Um, so yeah, so equipment spacing, so

1432  
01:09:52.625 --> 01:09:55.265  
that the testing demonstrates that, um,

1433  
01:09:57.125 --> 01:09:59.145  
far propagation from best enclosed

1434  
01:09:59.145 --> 01:10:00.345  
to best enclosure wouldn't happen.

1435  
01:10:00.965 --> 01:10:04.265  
Um, the framework, battery safety management plan

1436  
01:10:04.945 --> 01:10:08.785  
outlines things like vegetation control, so

1437  
01:10:08.785 --> 01:10:11.345  
how it will be controlled in and around the site.

1438  
01:10:11.765 --> 01:10:16.425  
So again, typically, um, battery equipment will be, uh,

1439  
01:10:16.425 --> 01:10:18.785  
more than 10 meters from, from any vegetation,

1440  
01:10:19.095 --> 01:10:20.185  
even more on this site.

1441  
01:10:20.285 --> 01:10:23.465  
So the site boundary is, is 30 meters from the best.

1442  
01:10:23.605 --> 01:10:27.865  
So 30 meters is, is defined by NF FP 8 5 5

1443  
01:10:27.965 --> 01:10:30.065  
as a safe explosion radius.

1444  
01:10:30.205 --> 01:10:34.545  
So, uh, if there ever was an explosion, um, then,

1445

01:10:35.005 --> 01:10:38.625  
uh, shrapnel or debris, uh, on, again,

1446  
01:10:38.625 --> 01:10:41.865  
from real world incidents is typically maximum sort

1447  
01:10:41.865 --> 01:10:44.945  
of radius is, has been sort of 23, 24 meters.

1448  
01:10:45.045 --> 01:10:48.905  
So 30 meters is, is defined as a safe standoff distance.

1449  
01:10:49.445 --> 01:10:53.105  
Um, so again, that's where the, the, the best fencing is.

1450  
01:10:53.645 --> 01:10:58.025  
Um, so again, any vegetation on site, you know, as part

1451  
01:10:58.025 --> 01:11:00.705  
of the final site specific risk assessments

1452  
01:11:01.005 --> 01:11:05.265  
and risk mitigation plan with a fire service is designed

1453  
01:11:05.325 --> 01:11:08.065  
to ensure that, uh, either through the batteries

1454  
01:11:08.125 --> 01:11:12.825  
or through, uh, through any sort of plantation, uh,

1455  
01:11:12.825 --> 01:11:15.125  
that you're reducing the risk of wildfires.

1456  
01:11:16.285 --> 01:11:20.245  
Additionally, you know, each best area, uh, will be, um,

1457  
01:11:21.005 --> 01:11:24.965  
provided with, uh, volume of firefighting water for,

1458  
01:11:24.965 --> 01:11:26.165  
for the Farm rescue service.

1459

01:11:26.465 --> 01:11:29.325

So each best area, you know, will be supplied

1460

01:11:29.435 --> 01:11:33.445

with the NF minimum NFCC guidance.

1461

01:11:33.545 --> 01:11:36.245

So again, all of this at the site specific stage, the,

1462

01:11:36.385 --> 01:11:37.565

the volumes are agreed

1463

01:11:37.565 --> 01:11:39.725

and signed off by a fire protection engineer

1464

01:11:39.725 --> 01:11:41.485

and the fire service, but currently

1465

01:11:41.485 --> 01:11:44.285

that's 1900 liters per minute for two hours,

1466

01:11:44.905 --> 01:11:48.125

and, you know, each best area will have that volume

1467

01:11:48.465 --> 01:11:50.005

of water available.

1468

01:11:51.075 --> 01:11:54.445

Okay, thank you. Um, so is it, if it's just helpful,

1469

01:11:54.605 --> 01:11:57.125

I might just add in terms of how we sort of lock in

1470

01:11:57.125 --> 01:11:59.165

or secure the measures that Mr.

1471

01:11:59.165 --> 01:12:00.645

Gregory's talking about, just to sort

1472

01:12:00.645 --> 01:12:02.485  
of give hopefully some additional comfort.

1473  
01:12:02.865 --> 01:12:05.485  
But we've submitted a framework battery safety management

1474  
01:12:05.485 --> 01:12:07.605  
plan, which Mr. Gregory is referring to, um,

1475  
01:12:08.435 --> 01:12:10.445  
just quite detailed, and you can look at it

1476  
01:12:10.445 --> 01:12:12.765  
and see there's run the safety standards in there, run

1477  
01:12:12.765 --> 01:12:14.925  
to several pages, and there's various other measures

1478  
01:12:14.925 --> 01:12:17.645  
that Mr. Gregory has referenced such as additional modeling

1479  
01:12:17.705 --> 01:12:18.765  
and, and testing and things.

1480  
01:12:19.025 --> 01:12:22.085  
So there's requirement six of the DCO requires us to have

1481  
01:12:22.085 --> 01:12:26.405  
that detailed plan approved by, um, the county councils,

1482  
01:12:26.405 --> 01:12:30.245  
and that's in consultation with, um, the district councils,

1483  
01:12:30.425 --> 01:12:32.485  
the, and both the, um, Lincoln Shear

1484  
01:12:32.485 --> 01:12:34.085  
and Nottingham Shear Fire Rescue Services

1485  
01:12:34.145 --> 01:12:35.365  
and the Environment Agency.

1486

01:12:35.945 --> 01:12:39.405

Um, in our outline design principles, we've got a, um,

1487

01:12:39.465 --> 01:12:42.005

250 meter offset distance from properties, which

1488

01:12:42.905 --> 01:12:44.845

as you've heard from what Mr. Gregory said, is,

1489

01:12:44.865 --> 01:12:48.405

is quite conservative, um, and, and,

1490

01:12:48.585 --> 01:12:50.285

and precautionary as it should be.

1491

01:12:50.625 --> 01:12:52.125

Um, requirement five means

1492

01:12:52.125 --> 01:12:54.565

that when we put in detailed design for the plans

1493

01:12:54.565 --> 01:12:55.925

to be approved, they must accord

1494

01:12:55.925 --> 01:12:58.685

with those design principles, including that offset.

1495

01:12:58.945 --> 01:13:00.805

And the design principles generally have obviously been

1496

01:13:01.165 --> 01:13:04.085

informed and inherent part of the design is, is safety.

1497

01:13:04.785 --> 01:13:06.925

Um, we also include protective provisions

1498

01:13:06.925 --> 01:13:08.245

with Lincoln Cheer, um, fire

1499



01:13:08.245 --> 01:13:11.165  
and Rescue Service in part nine of Schedule 15 of the DC0,

1500  
01:13:11.625 --> 01:13:12.885  
um, to facilitate

1501  
01:13:12.905 --> 01:13:15.805  
and fund, um, the fire rescue service to do a site familiar

1502  
01:13:16.765 --> 01:13:19.325  
familiarization exercise each year to come out to site

1503  
01:13:19.465 --> 01:13:22.845  
and to ensure that we've, um, done what we said we would do

1504  
01:13:22.925 --> 01:13:24.045  
and, and we're required

1505  
01:13:24.045 --> 01:13:25.845  
to do under the battery safety management plan.

1506  
01:13:26.105 --> 01:13:29.405  
And that is an annual exercise that, um, will be undertaken

1507  
01:13:29.405 --> 01:13:31.605  
and paid for by the applicant until decommissioning.

1508  
01:13:31.905 --> 01:13:33.365  
So this is how all the measures

1509  
01:13:33.365 --> 01:13:34.925  
that Mr. Gregory has talked about

1510  
01:13:34.945 --> 01:13:36.845  
and that in the battery safety management plan and,

1511  
01:13:36.845 --> 01:13:38.645  
and elsewhere are all locked in.

1512  
01:13:38.705 --> 01:13:42.885  
So that, um, you know, just, just to give that added level

1513

01:13:42.885 --> 01:13:44.525

of reassurance and obviously that we, you know,

1514

01:13:44.525 --> 01:13:46.045

we will be complying with them.

1515

01:13:47.055 --> 01:13:51.525

Thank you. Uh, I'm going,

1516

01:13:51.525 --> 01:13:54.605

if it's okay, I, I'll, I'll, I'll move to some of the, um,

1517

01:13:54.605 --> 01:13:55.605

people in the room that I'll come to the

1518

01:13:55.605 --> 01:13:56.565

parties at the back of the room if that's okay.

1519

01:13:56.565 --> 01:13:58.245

Mrs. Montgomery, it's 7,000 acres.

1520

01:13:58.245 --> 01:13:59.965

Do you have any comments to make on any

1521

01:13:59.965 --> 01:14:01.245

of the issues you've just had?

1522

01:14:03.225 --> 01:14:05.695

Thank you, sir. Yes, Liz Gar at 7,000 acres.

1523

01:14:06.195 --> 01:14:09.215

Um, thank you for your descriptions,

1524

01:14:09.485 --> 01:14:14.165

however, in relation to how the residents feel,

1525

01:14:14.585 --> 01:14:18.125

um, in the event that as

1526

01:14:19.245 --> 01:14:21.805  
yourself the examining authority was describing, nine

1527  
01:14:22.365 --> 01:14:24.045  
incidents may be possible across the

1528  
01:14:24.205 --> 01:14:25.285  
lifetime of this scheme.

1529  
01:14:26.105 --> 01:14:30.165  
Um, in such an event, whether it be in terms

1530  
01:14:30.185 --> 01:14:31.325  
of toxic fumes

1531  
01:14:31.385 --> 01:14:35.805  
or a fire event as I understand them, you know,

1532  
01:14:35.825 --> 01:14:40.565  
say there's a situation where wind direction directs

1533  
01:14:41.225 --> 01:14:44.445  
in the immediate instance, um, toxic fumes,

1534  
01:14:44.565 --> 01:14:46.365  
I don't understand hydrofluoric acid, which is, um,

1535  
01:14:47.035 --> 01:14:50.645  
very dangerous indeed and fatal to life towards residents

1536  
01:14:50.645 --> 01:14:52.525  
and obviously wildlife, living creatures

1537  
01:14:52.745 --> 01:14:57.725  
and living human beings is some sort of immediate monitoring

1538  
01:14:58.235 --> 01:15:00.885  
warning signal, um, for residents.

1539  
01:15:00.905 --> 01:15:02.325  
We need to know this immediately.

1540

01:15:02.465 --> 01:15:03.925

We can't be waiting for somebody

1541

01:15:03.985 --> 01:15:07.525

to press a button in a different, I don't know,

1542

01:15:07.595 --> 01:15:10.365

setting somewhere, then go to somebody else, somebody else,

1543

01:15:10.605 --> 01:15:14.005

somebody else if people are then choking.

1544

01:15:15.375 --> 01:15:16.375

Thank you.

1545

01:15:17.905 --> 01:15:19.615

Would you like me to collate all the questions

1546

01:15:19.715 --> 01:15:20.775

and come back for an answer,

1547

01:15:20.775 --> 01:15:23.775

or would you take to take, prefer to take one at a time?

1548

01:15:25.755 --> 01:15:28.655

Um, Paul Gregory for the applicant, um, I,

1549

01:15:28.815 --> 01:15:32.935

I guess just from a a memory perspective, perhaps it, if, if

1550

01:15:32.935 --> 01:15:35.855

that's okay just to, to address each question individually,

1551

01:15:35.855 --> 01:15:38.215

might, might be easier for, for response.

1552

01:15:39.075 --> 01:15:41.535

Um, so thank you for your, for your question.

1553

01:15:42.075 --> 01:15:46.575  
So, um, typically as, as I described earlier,

1554  
01:15:47.085 --> 01:15:49.055  
when the battery system is known

1555  
01:15:49.115 --> 01:15:52.695  
and also the specific areas of the best with the provisions

1556  
01:15:52.695 --> 01:15:56.135  
that have been discussed about no best being within 250

1557  
01:15:56.235 --> 01:16:01.215  
meters, which as I described, you know, uh, in any, uh, data

1558  
01:16:01.925 --> 01:16:04.815  
from, from full scale testing I've ever seen, you know,

1559  
01:16:04.815 --> 01:16:07.135  
that isn't, uh, a distance

1560  
01:16:07.135 --> 01:16:10.375  
that should have any concern under any climatic conditions.

1561  
01:16:10.685 --> 01:16:14.295  
However, the emergency response plan, which is put together

1562  
01:16:14.295 --> 01:16:17.095  
with a fire service when all the risk assessments

1563  
01:16:17.095 --> 01:16:18.935  
and the consequence modeling have been conducted.

1564  
01:16:18.955 --> 01:16:20.735  
And so as part of that modeling,

1565  
01:16:20.805 --> 01:16:23.375  
typically we look at things like wind speeds.

1566  
01:16:23.435 --> 01:16:27.055  
So that's maximum wind speeds recorded in the areas the

1567

01:16:27.055 --> 01:16:29.575

lowest wind speed, what we call flame tilt.

1568

01:16:29.715 --> 01:16:33.215

So typically, if, if the best enclosure is, is burning,

1569

01:16:33.595 --> 01:16:35.695

so making sure that in a maximum sort

1570

01:16:35.695 --> 01:16:39.375

of wind recorded wind speeds, that that flame tilt isn't,

1571

01:16:39.715 --> 01:16:41.695

uh, the equipment spacing is sufficient

1572

01:16:41.795 --> 01:16:45.255

so you don't get a fire propagation to the next unit.

1573

01:16:46.035 --> 01:16:49.615

And likewise, with, uh, toxic emission concerns

1574

01:16:49.615 --> 01:16:52.575

or visibility in, in the emergency response plan

1575

01:16:53.145 --> 01:16:55.455

based on actual test data

1576

01:16:55.955 --> 01:16:58.895

and with organizations like the local resilience forum,

1577

01:16:59.375 --> 01:17:03.815

for example, um, any sort of community, uh,

1578

01:17:04.315 --> 01:17:05.935

alerts or channels

1579

01:17:05.935 --> 01:17:10.405

of communication about either being an incident, um,

1580

01:17:10.505 --> 01:17:12.565  
you know, for example, obviously there's, uh,

1581  
01:17:12.885 --> 01:17:15.405  
agricultural areas, so fields, for example.

1582  
01:17:15.945 --> 01:17:19.725  
So as part of that emergency response plan, then detailed

1583  
01:17:19.825 --> 01:17:20.965  
to the communications

1584  
01:17:21.225 --> 01:17:24.445  
and how alerts, uh, are communicated

1585  
01:17:24.475 --> 01:17:26.165  
outside the farm rescue service

1586  
01:17:26.305 --> 01:17:29.725  
and the operators, uh, are embedded, uh,

1587  
01:17:29.865 --> 01:17:32.805  
and shared with the local communities, either

1588  
01:17:32.805 --> 01:17:36.645  
through the re resilience forums, perhaps re council,

1589  
01:17:36.935 --> 01:17:38.325  
local district councils.

1590  
01:17:38.625 --> 01:17:43.045  
I'm not, uh, so 00 fa with, uh, the channels, uh, that,

1591  
01:17:43.235 --> 01:17:44.565  
that these things are conducted.

1592  
01:17:44.705 --> 01:17:48.805  
But, um, so very, uh, so for example, you know,

1593  
01:17:48.805 --> 01:17:51.605  
we have standard emergency response templates

1594

01:17:51.605 --> 01:17:53.325  
that you could produce at this time,

1595

01:17:53.705 --> 01:17:55.965  
but the devil, of course is always in the detail,

1596

01:17:56.345 --> 01:17:58.885  
and it should be both site and project specific

1597

01:17:58.945 --> 01:18:00.565  
and local area specific.

1598

01:18:00.625 --> 01:18:04.645  
But those are absolutely, uh, dealt with

1599

01:18:04.945 --> 01:18:08.885  
and discussed with first responders, second responders,

1600

01:18:08.905 --> 01:18:11.605  
the local communities, so everybody is aware

1601

01:18:11.665 --> 01:18:15.885  
before operation, um, exactly how, uh,

1602

01:18:16.345 --> 01:18:19.005  
any alert communications are are carried out.

1603

01:18:19.655 --> 01:18:23.685  
Thank you. Um, I think just picking up on, um, Ms.

1604

01:18:23.925 --> 01:18:26.845  
Bert's point, you, you, you've delved into how the LRF,

1605

01:18:26.845 --> 01:18:28.685  
the local Resilience Forum would respond to the incident

1606

01:18:28.685 --> 01:18:31.005  
and perhaps, uh, resource it.

1607



01:18:31.805 --> 01:18:33.365  
I think what you, you were alluding to is,

1608  
01:18:33.415 --> 01:18:37.365  
other than seeing a fire on the site, is there anything you,

1609  
01:18:37.425 --> 01:18:40.925  
as the operator of the site could do to warn the community

1610  
01:18:41.025 --> 01:18:44.925  
or would you be reliant on your call to Lincoln SHA Fire

1611  
01:18:44.925 --> 01:18:47.085  
and Rescue who would trigger the local resilience forum,

1612  
01:18:47.225 --> 01:18:48.925  
who would then begin to trigger the actors,

1613  
01:18:49.285 --> 01:18:51.285  
national air quality teams and those sort of things

1614  
01:18:51.305 --> 01:18:52.925  
to begin monitoring the situation, which,

1615  
01:18:52.925 --> 01:18:54.845  
which all could take time to propagate.

1616  
01:18:55.145 --> 01:18:58.885  
Is there anything that the operator would do immediately

1617  
01:18:59.025 --> 01:19:00.365  
to warn the local community,

1618  
01:19:04.005 --> 01:19:05.335  
Paul Gregory, for the applicant?

1619  
01:19:05.915 --> 01:19:08.295  
Um, so typically

1620  
01:19:09.775 --> 01:19:12.165  
these are also sort of site specific.

1621

01:19:12.385 --> 01:19:16.405

So yes, there are, I mean, now, uh, with, uh, the controls

1622

01:19:16.405 --> 01:19:20.765

and monitoring, uh, real time data that is had, yes,

1623

01:19:20.765 --> 01:19:21.965

typically, um,

1624

01:19:22.145 --> 01:19:25.725

the operator would have a subject matter expert, um, that,

1625

01:19:25.725 --> 01:19:28.085

along with the fire services dealing with the incident,

1626

01:19:28.385 --> 01:19:32.915

and again, dependent on that response team, um,

1627

01:19:34.025 --> 01:19:37.715

then typically that would, uh, impact on

1628

01:19:38.935 --> 01:19:42.475

how and who is responsible for alerting the community.

1629

01:19:42.815 --> 01:19:45.515

And typically there would be a, a, a response

1630

01:19:45.615 --> 01:19:48.635

or a, an alert response timeframe that was agreed

1631

01:19:49.215 --> 01:19:52.075

and was implemented in, in the emergency response plan.

1632

01:19:54.115 --> 01:19:56.325

Okay. So there, there is a likelihood that the, you

1633

01:19:56.325 --> 01:19:58.725

as the operator of the site would communicate something

1634

01:19:58.725 --> 01:20:01.285  
locally prior to the local resilience forum,

1635  
01:20:01.395 --> 01:20:02.605  
issuing emergency alerts,

1636  
01:20:03.875 --> 01:20:07.565  
Paul Gregory for the applicant, uh, as I said that the,

1637  
01:20:07.565 --> 01:20:08.765  
the, the templates and,

1638  
01:20:08.765 --> 01:20:12.245  
and the documents that I see vary significantly, you know,

1639  
01:20:12.265 --> 01:20:16.405  
and again, i I, and I guess, uh, the, the legal team

1640  
01:20:16.665 --> 01:20:19.525  
and the agreements with Lincolnshire Council could a

1641  
01:20:19.685 --> 01:20:21.645  
probably better place than myself to, to answer that,

1642  
01:20:21.905 --> 01:20:23.725  
but, you know, it wouldn't be a given.

1643  
01:20:24.185 --> 01:20:27.045  
Um, you know, I, I think that's something

1644  
01:20:27.045 --> 01:20:31.325  
that would be agreed with, with local authorities.

1645  
01:20:31.815 --> 01:20:34.365  
Thank you. Um, I'm gonna move

1646  
01:20:34.385 --> 01:20:36.245  
to the local authorities first, if that's okay,

1647  
01:20:36.245 --> 01:20:37.365  
then I haven't got, sorry.

1648

01:20:37.465 --> 01:20:38.685

Uh, if I could just ask, uh,

1649

01:20:38.685 --> 01:20:40.125

firstly, Lincoln County Council,

1650

01:20:41.295 --> 01:20:42.725

Thank you, Sirling.

1651

01:20:42.785 --> 01:20:46.565

Can Council, just in terms of the local resilience forum,

1652

01:20:47.425 --> 01:20:50.005

I'm not aware of any circumstances

1653

01:20:50.415 --> 01:20:54.285

where the local resilience forum has been set up in response

1654

01:20:54.285 --> 01:20:55.365

to a, a fire event.

1655

01:20:56.025 --> 01:21:00.085

So we have had, um, major fires at way sites,

1656

01:21:00.295 --> 01:21:01.725

which have gone on for a week,

1657

01:21:02.625 --> 01:21:05.685

and, um, obviously foreign rescue have their own

1658

01:21:06.205 --> 01:21:09.805

procedures in terms of, um, ensuring

1659

01:21:09.805 --> 01:21:11.525

that people are evacuated and things like that.

1660

01:21:11.905 --> 01:21:14.645

But that doesn't, in my experience,

1661

01:21:14.675 --> 01:21:17.965  
ever require the local resilience forum to, to,

1662  
01:21:17.965 --> 01:21:19.245  
to come into operation.

1663  
01:21:19.245 --> 01:21:21.445  
It's more handled by foreign rescue

1664  
01:21:21.545 --> 01:21:24.645  
and perhaps a police if necessary, rather than, um,

1665  
01:21:24.645 --> 01:21:26.885  
setting up a sort of emergency situation,

1666  
01:21:27.055 --> 01:21:30.885  
which involves other, um, sort of council and stakeholders.

1667  
01:21:31.105 --> 01:21:33.805  
So just wanted to, to, to make you aware of that.

1668  
01:21:33.935 --> 01:21:37.765  
Thank you. Uh, does West Lindsay have a viewpoint at all?

1669  
01:21:37.765 --> 01:21:41.685  
Yeah. Um, can I move to other interested parties in there,

1670  
01:21:41.785 --> 01:21:43.365  
Mrs. Montgomery first, if that's right, please.

1671  
01:21:51.405 --> 01:21:54.685  
I happened to, um, be doing a little bit of research

1672  
01:21:55.325 --> 01:21:58.245  
a while ago into the battery storage systems,

1673  
01:21:59.105 --> 01:22:04.005  
and in September 23 in Boulder Co in Queensland,

1674  
01:22:04.005 --> 01:22:07.005  
Australia, there was a, a battery fire,

1675

01:22:07.665 --> 01:22:09.485  
and it went into thermal runaway,

1676

01:22:10.225 --> 01:22:14.005  
and the reports were listing all the chemicals

1677

01:22:14.005 --> 01:22:16.165  
that were being released, the, the, uh,

1678

01:22:16.165 --> 01:22:17.525  
the acids, et cetera.

1679

01:22:18.305 --> 01:22:22.565  
And listening to what the gentleman said, um,

1680

01:22:22.895 --> 01:22:27.605  
about the timescales, this shipping container

1681

01:22:27.605 --> 01:22:32.485  
as they called it, um, was ha had to be left to burn out.

1682

01:22:32.545 --> 01:22:34.205  
It was burning for more than 12 hours

1683

01:22:35.435 --> 01:22:38.045  
because the, the heat was too intense.

1684

01:22:38.575 --> 01:22:40.765  
We've seen on TV,

1685

01:22:41.305 --> 01:22:44.845  
the little bike battery fires, um,

1686

01:22:44.935 --> 01:22:48.725  
we've seen the electric car fires and how intense they are.

1687

01:22:49.545 --> 01:22:53.685  
And then the scale of the fires that would be if one

1688

01:22:53.685 --> 01:22:55.765  
of these batteries went on on fire.

1689  
01:22:57.385 --> 01:23:00.365  
And the smoke, we've talked about plastics, the smoke

1690  
01:23:00.385 --> 01:23:05.365  
and the fumes where, where we live, it predominantly is a,

1691  
01:23:05.525 --> 01:23:10.345  
a westerly direction for the wind, which will bring all of

1692  
01:23:10.345 --> 01:23:12.825  
that over onto the communities.

1693  
01:23:13.725 --> 01:23:15.145  
And you cannot plan.

1694  
01:23:15.485 --> 01:23:20.025  
You talked about looking at the wind, um, patterns.

1695  
01:23:20.165 --> 01:23:23.785  
You cannot plan a fire in a battery

1696  
01:23:24.485 --> 01:23:26.545  
to coincide with light winds.

1697  
01:23:27.045 --> 01:23:28.345  
It doesn't work like that.

1698  
01:23:28.725 --> 01:23:33.065  
So I, I'm not convinced at all when it,

1699  
01:23:33.065 --> 01:23:36.305  
when you mentioned that the, there are, um,

1700  
01:23:38.935 --> 01:23:42.395  
the, um, boundary of the sites

1701  
01:23:42.985 --> 01:23:44.395  
that the fumes

1702

01:23:44.415 --> 01:23:46.995

and the the smoke shouldn't go outside the boundary.

1703

01:23:46.995 --> 01:23:49.755

You cannot stop, stop smoke with a fence.

1704

01:23:50.925 --> 01:23:53.665

Um, and if the wind is blowing, then I think it,

1705

01:23:53.725 --> 01:23:56.905

it will come over the villages and it, and it's frightening.

1706

01:23:58.075 --> 01:23:59.745

Thank you. Thank you, Mrs. Montgomery.

1707

01:24:00.005 --> 01:24:03.225

Um, we, for the benefit of those were in the room yesterday.

1708

01:24:03.225 --> 01:24:05.465

We had, uh, Mr. Moss from, uh, uh, Lincoln

1709

01:24:05.525 --> 01:24:10.385

and Fire Rescue Services, uh, describe how they were working

1710

01:24:10.455 --> 01:24:12.465

with the applicant to look at protective provisions

1711

01:24:12.465 --> 01:24:13.825

to make sure they had adequate resources.

1712

01:24:14.125 --> 01:24:17.385

He described that he, he would indeed probably attend a fire

1713

01:24:17.385 --> 01:24:19.905

and fight a fire defensively, not looking necessarily

1714

01:24:19.925 --> 01:24:21.545

to extinguish it,

1715



01:24:21.545 --> 01:24:25.025  
but to create safe tea for the glocal community

1716  
01:24:25.365 --> 01:24:26.865  
and suppress it as best they could,

1717  
01:24:26.865 --> 01:24:29.145  
but allow the unit to burn out.

1718  
01:24:29.605 --> 01:24:30.785  
Um, I, I'll pass to Mr.

1719  
01:24:30.785 --> 01:24:31.825  
Greg if you want to come back on

1720  
01:24:31.825 --> 01:24:33.425  
that comment from Mrs. Montgomery specifically,

1721  
01:24:36.545 --> 01:24:38.045  
Uh, Paul Gregory for the applicant.

1722  
01:24:38.185 --> 01:24:39.885  
Uh, thanks Mrs. Montgomery.

1723  
01:24:40.465 --> 01:24:44.605  
So, yes, the, uh, the far you described was a a,

1724  
01:24:44.965 --> 01:24:49.405  
a Tesla Mega Pack two XL system, which actively,

1725  
01:24:49.825 --> 01:24:51.245  
um, so there aren't,

1726  
01:24:51.245 --> 01:24:52.925  
there isn't a fire suppression system in there.

1727  
01:24:52.925 --> 01:24:54.365  
They've got a, a sparker system.

1728  
01:24:54.425 --> 01:24:57.605  
So basically the, the mega pack is, is designed just

1729

01:24:57.605 --> 01:24:59.445  
to be fully consumed during the fire.

1730

01:24:59.585 --> 01:25:03.445  
So, uh, there's an ignition system so that it,

1731

01:25:03.785 --> 01:25:05.605  
it removes explosion risks

1732

01:25:06.145 --> 01:25:08.325  
and it's designed to steadily burn through.

1733

01:25:08.945 --> 01:25:11.085  
Now the 12 hour timeframe, a little bit,

1734

01:25:11.085 --> 01:25:13.565  
as I described earlier, that wasn't the battery so much,

1735

01:25:13.565 --> 01:25:15.645  
that's more combustibles, but

1736

01:25:15.755 --> 01:25:19.045  
because the operating system was at a very low state

1737

01:25:19.045 --> 01:25:21.365  
of charge at the time of the thermal runaway,

1738

01:25:21.515 --> 01:25:25.805  
typically we will see a, uh, a longer duration,

1739

01:25:26.585 --> 01:25:28.325  
uh, less intense fire,

1740

01:25:28.385 --> 01:25:30.285  
but it will, it will burn for lo for longer.

1741

01:25:30.465 --> 01:25:34.685  
So that was, you know, just a, an example of, of, of

1742

01:25:34.685 --> 01:25:38.125  
what happens with a, an energy storage system, uh,

1743  
01:25:38.545 --> 01:25:41.445  
at a low state of charge, longer duration.

1744  
01:25:42.065 --> 01:25:45.085  
But the toxic emission is less by definition,

1745  
01:25:45.085 --> 01:25:48.445  
because at lower stages of charge, you produce less gas.

1746  
01:25:48.945 --> 01:25:52.605  
And, you know, it must be noted that there were no, uh,

1747  
01:25:52.625 --> 01:25:56.885  
levels of toxic emissions recorded outside the site

1748  
01:25:57.475 --> 01:25:58.645  
that were of any concern.

1749  
01:25:59.185 --> 01:26:02.725  
And at the, the previous Tesla Maker Pack incident in,

1750  
01:26:02.945 --> 01:26:07.845  
in 2021, uh, the big battery fire in Victoria, again, um,

1751  
01:26:09.065 --> 01:26:13.445  
uh, community toxic emission monitoring was conducted up

1752  
01:26:13.445 --> 01:26:14.725  
to two kilometers away.

1753  
01:26:15.145 --> 01:26:19.405  
And again, there were no levels of toxic emissions

1754  
01:26:20.245 --> 01:26:22.205  
recorded at those sort of distances.

1755  
01:26:22.385 --> 01:26:26.775  
So, as I discussed earlier, you know, with variables,

1756

01:26:26.775 --> 01:26:31.335

typically, uh, any significant emission rate,

1757

01:26:31.595 --> 01:26:35.895

um, so you, you describe worries about

1758

01:26:36.605 --> 01:26:39.215

wind strength or the stronger the winds,

1759

01:26:39.215 --> 01:26:41.175

the quicker the emissions actually dissipate.

1760

01:26:41.635 --> 01:26:43.175

Uh, a worst case scenario

1761

01:26:43.395 --> 01:26:47.055

for toxic emissions would be very low wind conditions,

1762

01:26:47.575 --> 01:26:50.975

a damp atmosphere, so the plume wouldn't be as buoyant,

1763

01:26:50.995 --> 01:26:53.095

so it would stay a little bit lower than

1764

01:26:53.095 --> 01:26:54.255

might be typical in the fire.

1765

01:26:54.555 --> 01:26:57.895

And actually because of the low wind conditions, um,

1766

01:26:58.275 --> 01:26:59.295

the parts per million

1767

01:26:59.315 --> 01:27:02.455

of the emissions will go out on a slightly further radius.

1768

01:27:02.835 --> 01:27:04.655

Um, but like as I, as I said earlier,

1769

01:27:05.205 --> 01:27:07.015  
even in low wind speed,

1770

01:27:07.105 --> 01:27:10.215  
worse condition consequence modeling I've been involved with

1771

01:27:10.765 --> 01:27:13.335  
typically, uh, there've been no levels

1772

01:27:13.355 --> 01:27:15.295  
of concern over 50 meters, you know,

1773

01:27:15.295 --> 01:27:19.775  
which makes it very much, uh, a site specific issue,

1774

01:27:20.275 --> 01:27:22.575  
not a concern for, for local communities.

1775

01:27:22.675 --> 01:27:26.935  
So for example, in in, in those sites, um,

1776

01:27:27.395 --> 01:27:30.295  
you know, there have been local residents within sort

1777

01:27:30.295 --> 01:27:34.895  
of 170 meters of the best area for that particular site.

1778

01:27:36.345 --> 01:27:39.775  
Thank you. Uh, I'm gonna move on now to another issue

1779

01:27:39.775 --> 01:27:41.015  
that we've raised under health,

1780

01:27:41.155 --> 01:27:44.055  
and that is, um, it's been, it's a question that we raised

1781

01:27:44.055 --> 01:27:45.935  
with the applicant regarding aviation risks.

1782

01:27:46.955 --> 01:27:50.895  
Um, and we've had, uh, written responses in from a, a number

1783

01:27:50.895 --> 01:27:55.615  
of parties also, um, it has been that,

1784

01:27:55.675 --> 01:27:58.215  
um, there is a risk, uh, from, uh,

1785

01:27:58.315 --> 01:28:01.695  
pilots operating at the local stir gate airfield on runway

1786

01:28:01.835 --> 01:28:04.255  
two seven from potential glint glare

1787

01:28:04.275 --> 01:28:05.535  
for pilots coming into land.

1788

01:28:05.535 --> 01:28:07.175  
And we have, uh, relevant representation,

1789

01:28:07.815 --> 01:28:11.735  
relevant representation from pilots 0 0 2 highlighting this

1790

01:28:11.735 --> 01:28:15.135  
risk and the concern, but also the reason I link it in a

1791

01:28:15.135 --> 01:28:16.615  
little bit to human health is, one, it's risk

1792

01:28:16.615 --> 01:28:18.535  
to people obviously running small aircraft

1793

01:28:18.535 --> 01:28:19.575  
and light aircraft locally,

1794

01:28:20.035 --> 01:28:22.175  
but two, whether the accident could lead

1795

01:28:22.175 --> 01:28:23.615  
to an aircraft entering the site

1796

01:28:23.635 --> 01:28:26.815  
or impacting on the local community due

1797  
01:28:26.815 --> 01:28:28.375  
to not being able to see two land.

1798  
01:28:29.275 --> 01:28:33.175  
Um, could the applicant elaborate on any additional

1799  
01:28:33.175 --> 01:28:34.815  
assessment they've done on glin there

1800  
01:28:35.415 --> 01:28:37.855  
specifically based on those written representations?

1801  
01:28:51.945 --> 01:28:54.375  
Sorry, sir. Just to be clear, this is unconnected with

1802  
01:28:55.885 --> 01:28:58.215  
Bess, but you are speaking specifically glint

1803  
01:28:58.215 --> 01:28:59.975  
and GLE from panels and then

1804  
01:29:01.065 --> 01:29:03.725  
The risk of a collision or, um, you know, the risk of, uh,

1805  
01:29:03.895 --> 01:29:06.325  
triggering an incident outside of the site for others,

1806  
01:29:06.625 --> 01:29:08.045  
you know, that their, their impact on health

1807  
01:29:08.345 --> 01:29:11.085  
and similarly the risk of, uh, uh,

1808  
01:29:11.085 --> 01:29:12.565  
an aircraft impacting on the site

1809  
01:29:12.565 --> 01:29:14.525  
or the local community due to not being able

1810

01:29:14.525 --> 01:29:16.325  
to observe the landing site

1811

01:29:19.105 --> 01:29:21.285  
Be not being able to observe the landing due to

1812

01:29:22.295 --> 01:29:25.045  
Being blinded by glare off of the panels, right,

1813

01:29:25.045 --> 01:29:26.285  
The panel, sorry, that's what I just wanna confirm.

1814

01:29:26.285 --> 01:29:29.405  
It wasn't in, in, in connection with the best situation.

1815

01:29:29.475 --> 01:29:30.475  
Okay.

1816

01:29:53.045 --> 01:29:56.505  
Yeah, Sorry, sorry. If you could just gimme a moment,

1817

01:30:06.135 --> 01:30:07.635  
um, alexis com for the applicant.

1818

01:30:07.855 --> 01:30:09.955  
Um, I haven't got the author of the glin glare assessment.

1819

01:30:10.025 --> 01:30:13.035  
I've got our landscape, um, expert who has dealt

1820

01:30:13.035 --> 01:30:14.035  
with the outcomes of that.

1821

01:30:14.035 --> 01:30:16.275  
And in terms of what they mean for landscape in terms

1822

01:30:16.275 --> 01:30:19.275  
of the specific issue that you're mentioning, um, again, I,

1823



01:30:19.305 --> 01:30:20.315  
I'll need to take that one away.

1824  
01:30:20.535 --> 01:30:22.195  
Um, 'cause I don't have a specific answer on that.

1825  
01:30:22.375 --> 01:30:23.715  
Um, and I want to make sure that,

1826  
01:30:24.025 --> 01:30:26.195  
that we obviously give you the answer that you need.

1827  
01:30:26.655 --> 01:30:28.675  
So, um, I'll need to take that one note. Thank you

1828  
01:30:28.675 --> 01:30:29.675  
Very much. Yeah. Is there

1829  
01:30:29.675 --> 01:30:31.035  
any comments from any parties in the

1830  
01:30:31.035 --> 01:30:32.115  
room on that specific risk?

1831  
01:30:33.285 --> 01:30:34.385  
Uh, 7,000 acres.

1832  
01:30:35.235 --> 01:30:37.265  
Thank you sir. Liz Gar, 7,000 acres.

1833  
01:30:37.365 --> 01:30:38.905  
Um, I'm not sure if you're aware,

1834  
01:30:38.905 --> 01:30:40.825  
but obviously we've submitted a, a, a glint

1835  
01:30:40.885 --> 01:30:42.585  
and um, written representation.

1836  
01:30:42.585 --> 01:30:46.025  
It was actually written by a member of our team who is a ex,

1837

01:30:46.245 --> 01:30:48.385  
um, test pilot, RF test pilot.

1838

01:30:48.925 --> 01:30:50.745  
So, um, he doesn't like to say so,

1839

01:30:50.765 --> 01:30:53.985  
but, um, he's well averse in these issues,

1840

01:30:54.045 --> 01:30:56.305  
so I would recommend the full reading of

1841

01:30:56.305 --> 01:30:58.385  
that report for your findings. Thank you.

1842

01:30:58.385 --> 01:31:00.025  
That's one of the triggers. Thank you for my question.

1843

01:31:00.075 --> 01:31:03.585  
Thank you. Any other parties in the room?

1844

01:31:05.375 --> 01:31:08.225  
Okay, what I propose to do now is if we take a short, uh,

1845

01:31:08.225 --> 01:31:11.585  
adjournment for 15 minutes, um, uh, give everybody a chance

1846

01:31:11.585 --> 01:31:12.745  
to get a bit of refreshment and break.

1847

01:31:12.965 --> 01:31:14.585  
If you are joining us virtually online,

1848

01:31:15.025 --> 01:31:16.625  
I think we pause the feed

1849

01:31:16.845 --> 01:31:19.025  
and you have to refresh your browser when we return.

1850

01:31:19.205 --> 01:31:21.425

So if we plan to return it, uh, uh, quarter

1851

01:31:21.565 --> 01:31:23.265

to 12, if that's okay for everybody.

1852

01:31:23.265 --> 01:31:23.905

Thank you very much.