

# LLYR FLOATING OFFSHORE WIND PROJECT

**Llŷr 1 Floating Offshore Wind Farm**

**Environmental Statement**

**Volume 6: Appendix 13C – Trip End Model Presentation  
Program (TEMPRO) Output**

**August 2024**

## Document Status

Version	Authored by	Reviewed by	Approved by	Date
FINAL	AECOM	AECOM	AECOM	August 2024

## Approval for Issue

Prepared by	AECOM
Prepared for	Llŷr Floating Wind Limited
Approved by	Jay Hilton-Miller

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## Acronyms and abbreviations

Acronym or Abbreviation	Definition	Acronym or Abbreviation	Definition
TEMPRO	Trip End Model Presentation Program		

## Glossary of project terms

Term	Definition
The Applicant	The developer of the Project, Llŷr Floating Wind Limited.
Array	All wind turbine generators, inter array cables, mooring lines, floating sub-structures and supporting subsea infrastructure within the Array Area, as defined, when considered collectively, excluding the offshore export cable(s).
Array Area	The area within which the wind turbine generators, inter array cables, mooring lines, floating sub-structures and supporting subsea infrastructure will be located.
Floventis Energy	The company developing the proposed Project, a joint venture between Cierco Ltd and SBM Offshore Ltd.
Landfall	The location where the offshore export cable(s) from the Array Area, as defined, are brought onshore and connected to the onshore export cables (as defined) via the transition joint bays.
Llŷr 1	The proposed Project, for which the Applicant is applying for Section 36 and Marine Licence consents. Including all offshore and onshore infrastructure and activities, and all project phases.
Marine Licence	A licence required under the Marine and Coastal Access Act 2009 for marine works which is administered by Natural Resources Wales (NRW) Marine Licensing Team on behalf of the Welsh Ministers.
Offshore Development Area	The footprint of the offshore infrastructure and associated temporary works, comprised of the Array Area and the Offshore Export Cable Corridor, as defined, that forms the offshore boundary for the S36 Consent and Marine Licence application.
Offshore Export Cable	The cable(s) that transmit electricity produced by the WTGs to landfall.
Offshore Export Cable Corridor (OfECC)	The area within which the offshore export cable circuit(s) will be located, from the Array Area to the Landfall.
Onshore Development Area	The footprint of the onshore infrastructure and associated temporary works, comprised of the Onshore Export Cable Corridor and the Onshore Substation, as defined, and including new access routes and visibility splays, that forms the onshore boundary for the planning application.
Onshore Export Cable(s)	The cable(s) that transmit electricity from the landfall to the onshore substation.
Onshore Export Cable Corridor (OnECC)	The area within which the onshore export cable circuit(s) will be located.
proposed Project	All aspects of the Llŷr 1 development (i.e. the onshore and offshore components).

Term	Definition
Onshore Substation	Located within the Onshore Development Area, converts high voltage generated electricity into low voltage electricity that can be used for the grid and domestic consumption.
Section 36 consent	Consent to construct and operate an offshore generating station, under Section 36 (S.36) of the Electricity Act 1989. This includes deemed planning permission for onshore works.

### 13-C TEMPRO OUTPUT TABLES

<b>Dataset Version:</b>	80
<b>Dataset Scenario:</b>	Core
<b>Result Type:</b>	Trip ends by time period
<b>Base Year:</b>	2023
<b>Future Year:</b>	2027
<b>Trip Purpose Group:</b>	All purposes
<b>Time Period:</b>	Average Day
<b>Trip End Type:</b>	Origin/Destination
<b>Alternative Assumptions Applied:</b>	No

#### Walk

##### Growth Factor (2027 Data/2023 Data)

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	0.9640	0.9636
W02000140	Pembrokeshire 015	0.9604	0.9580

##### Future Year (2027) - Base Year (2023)

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	-149	-150
W02000140	Pembrokeshire 015	-90	-85

##### Base Year (2023)

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	4,144	4,118
W02000140	Pembrokeshire 015	2,270	2,036

##### Future Year (2027)

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	3,995	3,968
W02000140	Pembrokeshire 015	2,180	1,951

### **Cycle**

#### **Growth Factor (2027 Data/2023 Data)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	0.9827	0.9827
W02000140	Pembrokeshire 015	0.9747	0.9748

#### **Future Year (2027) - Base Year (2023)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	-6	-6
W02000140	Pembrokeshire 015	-7	-7

#### **Base Year (2023)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	365	367
W02000140	Pembrokeshire 015	283	283

#### **Future Year (2027)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	358	361
W02000140	Pembrokeshire 015	276	276

### **Car Driver**

#### **Growth Factor (2027 Data/2023 Data)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	1.0256	1.0255
W02000140	Pembrokeshire 015	1.0253	1.0252

#### **Future Year (2027) - Base Year (2023)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	276	278
W02000140	Pembrokeshire 015	203	203

#### **Base Year (2023)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	10,780	10,912
W02000140	Pembrokeshire 015	8,017	8,037

#### **Future Year (2027)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	11,056	11,190
W02000140	Pembrokeshire 015	8,220	8,240

### **Car Passenger**

#### **Growth Factor (2027 Data/2023 Data)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	0.9838	0.9838
W02000140	Pembrokeshire 015	0.9804	0.9808

#### **Future Year (2027) - Base Year (2023)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	-98	-100
W02000140	Pembrokeshire 015	-104	-104

#### **Base Year (2023)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	6,036	6,196
W02000140	Pembrokeshire 015	5,290	5,403

#### **Future Year (2027)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	5,939	6,095
W02000140	Pembrokeshire 015	5,187	5,299



### **Bus Coach**

#### **Growth Factor (2027 Data/2023 Data)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	0.9342	0.9342
W02000140	Pembrokeshire 015	0.9343	0.9357

#### **Future Year (2027) - Base Year (2023)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	-70	-70
W02000140	Pembrokeshire 015	-95	-97

#### **Base Year (2023)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	1,057	1,060
W02000140	Pembrokeshire 015	1,454	1,516

#### **Future Year (2027)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	987	990
W02000140	Pembrokeshire 015	1,359	1,419

### **Rail Underground**

#### **Growth Factor (2027 Data/2023 Data)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	0.9754	0.9747
W02000140	Pembrokeshire 015	0.9639	0.9628

#### **Future Year (2027) - Base Year (2023)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	-7	-8
W02000140	Pembrokeshire 015	-7	-6

#### **Base Year (2023)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	305	301
W02000140	Pembrokeshire 015	189	172

#### **Future Year (2027)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	297	293
W02000140	Pembrokeshire 015	182	165

### **Combined Modes**

#### **Growth Factor (2027 Data/2023 Data)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	0.9976	0.9976
W02000140	Pembrokeshire 015	0.9943	0.9944

#### **Future Year (2027) - Base Year (2023)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	-53	-56
W02000140	Pembrokeshire 015	-100	-97

#### **Base Year (2023)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	22,686	22,954
W02000140	Pembrokeshire 015	17,504	17,447

#### **Future Year (2027)**

Area Description		All purposes	
Level	Name	Origin	Destination
W02000138	Pembrokeshire 013	22,633	22,898
W02000140	Pembrokeshire 015	17,404	17,350

