



## NOTICE TO MARINERS

**2<sup>nd</sup> July, 2012**

### **IRISH SEA – Marine Survey in support of the Western HVDC Link Project**

Mariners are advised that survey and diving equipment will be used in the Irish Sea in July/August 2012, weather dependent. It is currently anticipated that this work will commence on 16<sup>th</sup> of July at Wirral (England),

The survey work will be carried out by UTEC using the following vessels:

- Offshore Survey Vessel: ILV Granualie



#### **GENERAL PARTICULARS**

<b>Built by:</b>	Damen Shipyards Holland
<b>Date:</b>	31st January 2000
<b>Official Number:</b>	403374
<b>IMO Number:</b>	9192947
<b>MMSI:</b>	250191000
<b>Radio Call Sign:</b>	EIPT
<b>Class:</b>	Lloyds 100A1, +LMC, +UMS + DP (AM)
<b>IMO DP Notation:</b>	Class 1

- Inshore Survey boat (Wirral): Remote Sensor
- Inshore Survey boat (Ardneil): Yorkshire Lady

During this survey the vessels may be deploying either underwater survey equipment and / or divers. During such times the survey vessels may have restricted ability to manoeuvre and other vessels are requested to pass at a safe speed and distance.

### **Project Description**

The Western HVDC Link Project consists of a 600 kV DC submarine system in the Irish Sea between Ardneil (Scotland) and Wirral (England) for a total route length of about 385 km. The cable route is shown in Figure 1 overleaf.

### **Survey tasks**

Following tasks will be performed along the cable route (see table 1 in the Appendix and figures 1&2 for cable co-ordinates):

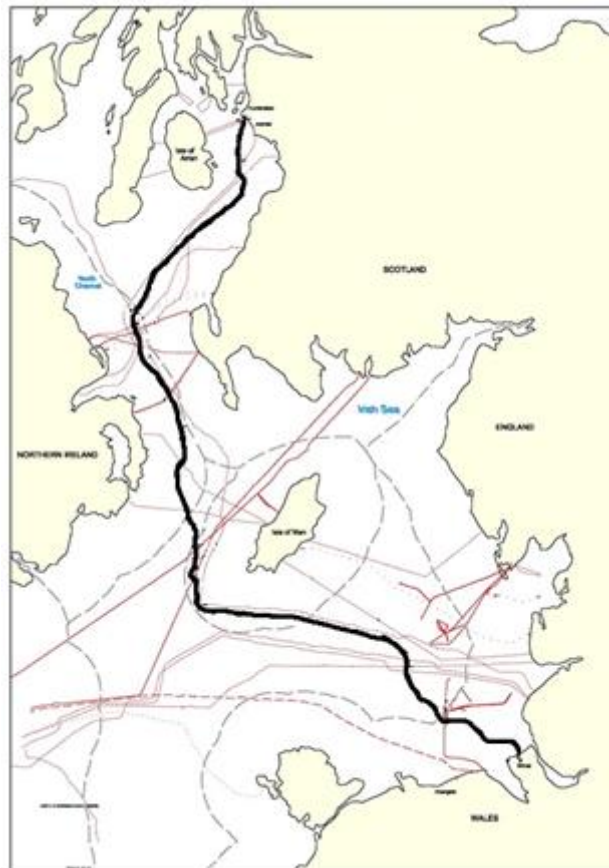
- Geophysical Survey
  - A detailed geophysical survey will be carried out on selected parts of the cable route by means of high resolution Boomer, SBP, MBES and SSS (Geophysical Spread) operated from surface.
- Geotechnical survey
  - A detailed geotechnical survey will be performed by vibro cores along the whole cable route.



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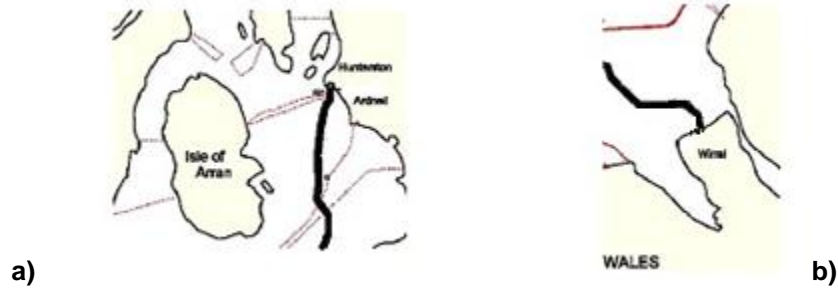
- ROV survey
  - A utility ROV survey will be carried out on targets, cables and pipelines along the whole cable route.
  
- Inshore survey at Ardneil and Wirral landings
  - At Ardneil landing site a diving survey shall be performed with video, photo, probing and sampling along the cable route from shore-line up to 15 m w.d. (nominally 1.5 km). In addition to the centreline, two wing lines are required to develop the information as necessary within an area of 10 m width centred on the reference cable route.
  - At Wirral landing site a supplementary geophysical survey shall be performed by geophysical survey between 2 and 10 m w.d. (MSL). A corridor of 200 m width shall be surveyed, centred along the reference route, nominally 4 km, by SBES/MBES/SSS (Geophysical Spread).

**Figure 1 – Cable route Locations**





**Figure 2 – Cable route Location at Ardneil (a) and Wirral (b) landing sites**



**Contact Details:**

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APPENDIX

Table 1 – Cable route co-ordinates

Alter Course	Longitude (E/W)	Latitude (N/S)	D M S WGS84	D M S WGS84
Route_Start_Point at Ardneil landing	-4.887691855	55.69534425	4° 53' 15.6907" W	55° 41' 43.2393" N
AC_1	-4.888888913	55.67386876	4° 53' 20.0001" W	55° 40' 25.9275" N
AC_2	-4.89883449	55.66950585	4° 53' 55.8042" W	55° 40' 10.2211" N
AC_3	-4.913071017	55.63125317	4° 54' 47.0557" W	55° 37' 52.5114" N
AC_4	-4.921137451	55.58035252	4° 55' 16.0948" W	55° 34' 49.2691" N
AC_5	-4.915962692	55.53032151	4° 54' 57.4657" W	55° 31' 49.1575" N
AC_6	-4.919563306	55.50502287	4° 55' 10.4279" W	55° 30' 18.0823" N
AC_7	-4.882153851	55.47767188	4° 52' 55.7539" W	55° 28' 39.6188" N
AC_8	-4.880624068	55.4456564	4° 52' 50.2466" W	55° 26' 44.3630" N
AC_9	-4.899100855	55.41785669	4° 53' 56.7631" W	55° 25' 4.2841" N
AC_10	-4.968023835	55.37381612	4° 58' 4.8858" W	55° 22' 25.7380" N
AC_11	-5.14054262	55.30411761	5° 8' 25.9534" W	55° 18' 14.8234" N
AC_12	-5.202499464	55.26348101	5° 12' 8.9981" W	55° 15' 48.5316" N
AC_13	-5.228152441	55.25960449	5° 13' 41.3488" W	55° 15' 34.5762" N
AC_14	-5.245425752	55.24219234	5° 14' 43.5327" W	55° 14' 31.8924" N
AC_15	-5.413250634	55.13859052	5° 24' 47.7023" W	55° 8' 18.9259" N
AC_16	-5.443473043	55.09513619	5° 26' 36.5030" W	55° 5' 42.4903" N
AC_17	-5.454692199	55.0853132	5° 27' 16.8919" W	55° 5' 7.1275" N
AC_18	-5.464411998	55.07572932	5° 27' 51.8832" W	55° 4' 32.6255" N
AC_19	-5.462098004	55.06665393	5° 27' 43.5528" W	55° 3' 59.9541" N
AC_20	-5.486618223	55.02921077	5° 29' 11.8256" W	55° 1' 45.1588" N
AC_21	-5.51431475	55.01082221	5° 30' 51.5331" W	55° 0' 38.9600" N
AC_22	-5.530804449	54.9889944	5° 31' 50.8960" W	54° 59' 20.3798" N
AC_23	-5.536368344	54.97902213	5° 32' 10.9260" W	54° 58' 44.4797" N
AC_24	-5.551391393	54.97092972	5° 33' 5.0090" W	54° 58' 15.3470" N
AC_25	-5.551206136	54.93838279	5° 33' 4.3421" W	54° 56' 18.1780" N
AC_26	-5.506931198	54.89258074	5° 30' 24.9523" W	54° 53' 33.2906" N
AC_27	-5.501075918	54.8580094	5° 30' 3.8733" W	54° 51' 28.8338" N
AC_28	-5.495070489	54.82467201	5° 29' 42.2538" W	54° 49' 28.8192" N
AC_29	-5.464671538	54.80152541	5° 27' 52.8175" W	54° 48' 5.4915" N
AC_30	-5.424602527	54.78067793	5° 25' 28.5691" W	54° 46' 50.4406" N
AC_31	-5.39056881	54.76596163	5° 23' 26.0477" W	54° 45' 57.4619" N
AC_32	-5.352647452	54.73385434	5° 21' 9.5308" W	54° 44' 1.8756" N
AC_33	-5.335971831	54.71363726	5° 20' 9.4986" W	54° 42' 49.0941" N
AC_34	-5.318188501	54.69798011	5° 19' 5.4786" W	54° 41' 52.7284" N
AC_35	-5.300959389	54.67619617	5° 18' 3.4538" W	54° 40' 34.3062" N
AC_36	-5.278894913	54.66032394	5° 16' 44.0217" W	54° 39' 37.1662" N
AC_37	-5.275709632	54.6525119	5° 16' 32.5547" W	54° 39' 9.0429" N
AC_38	-5.246921865	54.60093133	5° 14' 48.9187" W	54° 36' 3.3528" N
AC_39	-5.250526092	54.59491189	5° 15' 1.8939" W	54° 35' 41.6828" N
AC_40	-5.243697468	54.58234058	5° 14' 37.3109" W	54° 34' 56.4261" N
AC_41	-5.231168405	54.57262543	5° 13' 52.2063" W	54° 34' 21.4516" N
AC_42	-5.227545022	54.56659265	5° 13' 39.1621" W	54° 33' 59.7336" N
AC_43	-5.216611473	54.55544919	5° 12' 59.8013" W	54° 33' 19.6171" N



Alter Course	Longitude (E/W)	Latitude (N/S)	D M S WGS84	D M S WGS84
AC_44	-5.226075184	54.53241723	5° 13' 33.8707" W	54° 31' 56.7020" N
AC_45	-5.211894095	54.51925579	5° 12' 42.8187" W	54° 31' 9.3208" N
AC_46	-5.203742765	54.48724589	5° 12' 13.4740" W	54° 29' 14.0852" N
AC_47	-5.206165066	54.46073406	5° 12' 22.1942" W	54° 27' 38.6426" N
AC_48	-5.21750899	54.45152485	5° 13' 3.0324" W	54° 27' 5.4895" N
AC_49	-5.233949927	54.44236175	5° 14' 2.2197" W	54° 26' 32.5023" N
AC_50	-5.240749277	54.43655931	5° 14' 26.6974" W	54° 26' 11.6135" N
AC_51	-5.245092368	54.425928	5° 14' 42.3325" W	54° 25' 33.3408" N
AC_52	-5.237934259	54.35541027	5° 14' 16.5633" W	54° 21' 19.4770" N
AC_53	-5.175542301	54.27993369	5° 10' 31.9523" W	54° 16' 47.7613" N
AC_54	-5.171944741	54.26183174	5° 10' 19.0011" W	54° 15' 42.5943" N
AC_55	-5.117084319	54.19778269	5° 7' 1.5035" W	54° 11' 52.0177" N
AC_56	-5.124941599	54.14392118	5° 7' 29.7898" W	54° 8' 38.1162" N
AC_57	-5.110609024	54.12497104	5° 6' 38.1925" W	54° 7' 29.8958" N
AC_58	-5.108697008	54.10300761	5° 6' 31.3092" W	54° 6' 10.8274" N
AC_59	-5.136831274	54.04946309	5° 8' 12.5926" W	54° 2' 58.0671" N
AC_60	-5.138652052	54.03890177	5° 8' 19.1474" W	54° 2' 20.0464" N
AC_61	-5.100943756	54.02235343	5° 6' 3.3975" W	54° 1' 20.4724" N
AC_62	-5.105641134	53.93919761	5° 6' 20.3081" W	53° 56' 21.1114" N
AC_63	-5.058837263	53.91606014	5° 3' 31.8141" W	53° 54' 57.8165" N
AC_64	-4.781929158	53.90662429	4° 46' 54.9450" W	53° 54' 23.8474" N
AC_65	-4.759395858	53.89933963	4° 45' 33.8251" W	53° 53' 57.6227" N
AC_66	-4.706860758	53.89748317	4° 42' 24.6987" W	53° 53' 50.9394" N
AC_67	-4.6832123	53.90310479	4° 40' 59.5643" W	53° 54' 11.1772" N
AC_68	-4.47603996	53.89545241	4° 28' 33.7439" W	53° 53' 43.6287" N
AC_69	-3.923184108	53.81733069	3° 55' 23.4628" W	53° 49' 2.3905" N
AC_70	-3.829931527	53.77943384	3° 49' 47.7535" W	53° 46' 45.9618" N
AC_71	-3.817865609	53.77539267	3° 49' 4.3162" W	53° 46' 31.4136" N
AC_72	-3.810604766	53.68559332	3° 48' 38.1772" W	53° 41' 8.1359" N
AC_73	-3.73400006	53.61289076	3° 44' 2.4002" W	53° 36' 46.4067" N
AC_74	-3.662816541	53.59454116	3° 39' 46.1395" W	53° 35' 40.3482" N
AC_75	-3.592738441	53.52773206	3° 35' 33.8584" W	53° 31' 39.8354" N
AC_76	-3.569654838	53.52493042	3° 34' 10.7574" W	53° 31' 29.7495" N
AC_77	-3.500773598	53.53586664	3° 30' 2.7850" W	53° 32' 9.1199" N
AC_78	-3.403897653	53.52155762	3° 24' 14.0316" W	53° 31' 17.6074" N
AC_79	-3.391650752	53.5004997	3° 23' 29.9427" W	53° 30' 1.7989" N
AC_80	-3.310273455	53.45435637	3° 18' 36.9844" W	53° 27' 15.6829" N
AC_81	-3.173394167	53.45596326	3° 10' 24.2190" W	53° 27' 21.4677" N
AC_82	-3.138206744	53.43816641	3° 8' 17.5443" W	53° 26' 17.3991" N
Route_End_Point at Wirral landing	-3.128263353	53.41402804	3° 7' 41.7481" W	53° 24' 50.5010" N