	Submitted	Feedback Via	Summary of Feedback.
Version 2	14.08.17	Written Record submitted and addressed in V3 (See Answers to UK / WG Feedback 16.08.2018)	101 comments across submission. Review recognised the project not at formal FBC stage. More detail
Version 3	08.08.2018	Regional Office Comments see Response Sheet 16.08. Version 4 in Appendix K). UK / WG Workshop held 29.09.2018.	Supplementary Information Produced and Submitted in December 2018 (see Appendix K) addressing comment summarised below. -Review of the current element deliverables for Pembroke Dock's Infrastructure from the HoT submission. -The provision of more information about how the Pembroke Dock Infrastructure element will minimise risk on the consenting with specific focus on the heritage assets within the former Royal Dockyard. - Provision of information in relation to alternative scenarios for Pembroke Port, if the residual impact of the preferred option on heritage assets is delayed or unacceptable. - Provision of additional information in relation to the Pembrokeshire Demonstration Zone (PDZ) element rationale from moving from an onshore build to a consenting only strategy within the 5-year timescale imposed on the project by the Swansea Bay City Region.
Version 4	29.03.2019	RO Feedback	Comments addressed in V05
ESB Review	NA	Meetings 26.02.2019 and 25.04.2019	Economic Strategy Board requested SWOT analysis for each element (see Appendix K). Comments focused on how the project would create legacy beyond the initia City Deal funding period, how the project would ensure long term links with academia and skills and a desire for more shared facilities to be included to support the needs of technology developers.
Version 5	28.05.2019	UK WG Workshop	Comments recorded and addressed in V06 (see appendix K)
Peer Review	30.09.2019	Feedback via report	Response to comments addressed in V06
Version 6	03.10.2019		

Table ES6: PDM	costs							
	Infrastructure (PDI)							
Costs	2017/18	2018/19 £680,271	2019/20 £2,131,076	2020/21 £4,509,906	2021/22 £9,268,963	2022/23 £17,067,926	2023/24 £7,935,469	Totals £41,593,6
Revenue				_ ,,,,,,,,,			=1,000,100	,,
Total		£680,271	£2,131,076	£4,509,906	£9,268,963	£17,067,926	£7,935,469	£41,593,6
Funded by:								
Catapult CCF								
City Deal			£1,260,800	£1,767,621	£3,800,000	£8,099,526	£6,622,053	£21,550,00
PoMH (Infrastru	ucture)	£632,346	£360,000	£1,336,000	£2,427,090	£5,160,110	£630,572	£10,546,11
PoMH (Superstr	ructure)		£50,000	£200,000	£750,000	£1,000,000	£500,000	£2,500,00
Private Sector WEFO		C47.03F	C4C0 27C	C4 20C 20E	C2 204 872	C2 000 200	C102.044	CC 007 40
OTHER		£47,925	£460,276	£1,206,285	£2,291,873	£2,808,290	£182,844	£6,997,49
Total	£0	£680,271	£2,131,076	£4,509,906	£9,268,963	£17,067,926	£7,935,469	£41,593,61
Marine Energy 1	Test Area (META)							
Costs	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	Totals
Capital	39,823	45,927	83,703	84,783	85,895	78,703	0	418,83
Revenue	278,690	534,743	506,601	387,122	292,809	256,206	0	2,256,17
Total	318,513	580,670	590,304	471,904	378,704	334,909		2,675,00
Funded by: Catanult	0	0	0	0	0	0	0	
Catapult CCF	75,000	150,000	75,000	0	0	0	0	300,00
City Deal	0	0	195,724	195,724	195,724	195,724	0	782,89
PoMH	0	0	0	0	0	0	0	
Private Sector WEFO	0 243,513	290.670	160.590	176 190	193.090	120.195	0	1,192,10
OTHER	243,513	280,670 150,000	169,580 150,000	176,180 100,000	182,980	139,185	0	1,192,10
Total	£318,513	£580,670	£590,304	£471,904	£378,704	£334,909	£0	£2,675,00
	Engineering Centre o							
Costs Capital	2017/18	2018/19	2019/20 £1,070,000	2020/21 £600,000	2021/21	2022/22	2023/24	Totals £1,670,00
Revenue		£68.414	£1,353,637	£2,913,875	£2,461,632	£1,843,596	£869,588	£9,510,74
Total		£68,414	£2,423,637	£3,513,875	£2,461,632	£1,843,596	£869,588	£11,180,74
Funded by:								
Catapult		£23,691	£22,184	£394,587	£392,333	£167,114	£43,035	£1,042,94
CCF City Deal			£501,726	£920,715	£896,077	£1,286,156	£395,326	£ 000.00
city bear							2555,520	
PoMH					,.			
PoMH Private Sector				2020): 20			£400,000	£
Private Sector WEFO		£44,469	£1,715,872	£1,965,337	£987,945	£286,377		£400,00 £5,000,00
Private Sector WEFO OTHER		£254	£1,715,872 £183,854	£1,965,337 £233,237	£987,945 £185,277	£103,949	£31,226	£4,000,000 £400,000 £5,000,000
Private Sector WEFO			£1,715,872	£1,965,337	£987,945			£400,00 £5,000,00 £737,79
Private Sector WEFO OTHER Total	Demonstration Zone	£254 £68,414	£1,715,872 £183,854	£1,965,337 £233,237	£987,945 £185,277	£103,949	£31,226	£400,00 £5,000,00
Private Sector WEFO OTHER Total	Demonstration Zone 2017/18	£254 £68,414	£1,715,872 £183,854	£1,965,337 £233,237	£987,945 £185,277	£103,949	£31,226	£400,00 £5,000,00 £737,79
Private Sector WEFO OTHER Total Pembrokeshire Costs Capital	2017/18	£254 £68,414 e (PDZ)*	£1,715,872 £183,854 £2,423,637 2019/20	£1,965,337 £233,237 £3,513,875	£987,945 £185,277 £2,461,632	£103,949 £1,843,596	£31,226 £869,588 2023/24	£400,00 £5,000,00 £737,79 £11,180,74
Private Sector WEFO OTHER Total Pembrokeshire Costs Capital Revenue	2017/18 £277,770	£254 £68,414 e (PDZ)* 2018/19 £98,919	£1,715,872 £183,854 £2,423,637 2019/20	£1,965,337 £233,237 £3,513,875 2020/21	£987,945 £185,277 £2,461,632 2021/22 £1,360,110	£103,949 £1,843,596 2022/23	£31,226 £869,588 2023/24 £173,244	£400,00 £5,000,00 £737,79 £11,180,74 Totals
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Private Sector WEFO OTHER Total Pembrokeshire Costs Capital Revenue Total	2017/18 £277,770	£254 £68,414 e (PDZ)* 2018/19 £98,919	£1,715,872 £183,854 £2,423,637 2019/20	£1,965,337 £233,237 £3,513,875 2020/21	£987,945 £185,277 £2,461,632 2021/22 £1,360,110	£103,949 £1,843,596 2022/23	£31,226 £869,588 2023/24 £173,244	£400,00 £5,000,00 £737,79 £11,180,74
Private Sector WEFO OTHER Total Pembrokeshire Costs Capital Revenue Total Funded by: Catapult CCF	2017/18 £277,770	£254 £68,414 e (PDZ)* 2018/19 £98,919	£1,715,872 £183,854 £2,423,637 2019/20 £403,908 £403,908	£1,965,337 £233,237 £3,513,875 2020/21 £2,163,610 £2,163,610	£987,945 £185,277 £2,461,632 2021/22 £1,360,110 £1,360,110	£103,949 £1,843,596 2022/23 £543,988 £543,988	£31,226 £869,588 2023/24 £173,244 £173,244	£ £400,00 £5,000,00 £37,75 £11,180,74 Totals £5,021,54
Private Sector WEFO OTHER Total Pembrokeshire Costs Capital Revenue Total Funded by: Catapult CCF City Deal	2017/18 £277,770	£254 £68,414 e (PDZ)* 2018/19 £98,919	£1,715,872 £183,854 £2,423,637 2019/20	£1,965,337 £233,237 £3,513,875 2020/21	£987,945 £185,277 £2,461,632 2021/22 £1,360,110	£103,949 £1,843,596 2022/23	£31,226 £869,588 2023/24 £173,244	£ £400,00 £5,000,00 £37,75 £11,180,74 Totals £5,021,54
Private Sector WEFO OTHER Total Pembrokeshire Costs Capital Revenue Total Funded by: Catapult CCF	2017/18 £277,770	£254 £68,414 e (PDZ)** 2018/19 £98,919 £98,919	£1,715,872 £183,854 £2,423,637 2019/20 £403,908 £403,908	£1,965,337 £233,237 £3,513,875 2020/21 £2,163,610 £2,163,610	£987,945 £185,277 £2,461,632 2021/22 £1,360,110 £1,360,110	£103,949 £1,843,596 2022/23 £543,988 £543,988 £196,934	£31,226 £869,588 2023/24 £173,244 £173,244 £186,387	E400,00 E5,000,00 E737,75 E11,180,74 Totals E5,021,54 E5,021,54
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£112,466,667 24.9%

£0

PDM IO 2: Successfully attracts £60m of additional inward investment from technology developers within the SBCR area by 2024. Source Value (£m) Evidence Link Here £10.5 Bombora WavePower Also see Bombora Letter of Support in Appendix D Link here Also see Letter of Support Marine Power Systems £12.80 SBCR - MPS 2016 and MPS-Technology Letter to PCC Leader -Developers 27.11.2018 in Appendix D

£8.5m - £10m

See Letter of Support March 2019 SBE + PPI and SBE

Development Investment 2020 - 2023 in Appendix D

 Total
 £31.8 - £33.3

 % Target to
 53%

 Date
 53%

Simply Blue Energy

Table 6.5 PD	Table 6.5 PDI Targeted Revenue from SBCD Funded and Enabled outputs					
Output	Scenario					
Output	Low	Medium	High			
Port Services (Laydown,	£219k	£647k	£1.19m			
Net Rental	£163k	£189k	220k			
Total	£382k	£863k	£1,412			

Project & Funding Source	Project & Funding Source	Summary	Value (£m)
SELKIE Interreg (Ireland Wales)	Approved	Selkie is a 3.5-year project that was formely launched by Leslie Griffiths at Ocean Energy Europe in Dublin on September 30th. The project has 6 partners including Swansea University and Marine Energy Wales. The Port of Milford Haven sit on the Project's Steering Committee. The aims of the Selkie project are to: 1. Establish a cross-border network of Ocean Energy SMEs and supply chain companies; 2. Conduct industry-academic collaborative R&D projects; 3.Transfer R&D knowledge to wave and tidal industry/SME stakeholders, thereby advancing the technology sector as whole; 4. Assist Irish and Welsh SMEs to progress along the path to commercialisation	€4.2m / £3.72m
TIGER (Interreg Atlantic Area)	Application Submitted - Decision Expected Oct 2019	The Offshore Renewable Energy Catapult is leading the €46M, Interreg-funded Tidal Stream Industry Energiser Project (TIGER). TIGER will drive the growth of Tidal Stream Energy (TSE) in France & the UK, and accelerate the deployment of TSE in those regions, with significant economic benefits for coastal communities. Cambrian Offshore Limited, with registered offices in Wales, through TIGER, will invest €6.3M (€3.8M grant and €2.5M private) into the Ramsey Sound tidal site, once operated by Tidal Energy Limited, to bring that site back into full operation. This site could also benefit from revenue support through a Renewable Obligations Certificate, so bringing extra revenue into the region while it is generating. This will ehance the market attractivness to the sector to use the PDM outputs especially MEECE, META and the new assets in PDI	€6.3m / £5.58m
MILFORD HAVEN: ENERGY KINGDOM ISCF Prospering from the Energy Revolution (Detailed	Application Submitted -	The project is a two year Front End Engineering Study commencing January 2020. The objective of Milford Haven: Energy Kingdom is to establish seed markets for use of hydrogen around the Milford Haven Waterway, by integrating a wide range of major energy facilities, renewable energy generators and energy consumers in the community, using a systems architecture that can be implemented with commercial-ready solutions and which focusses on underlying fundamentals and is therefore robust in the face of regulatory change.	£4,405
Designs) Southeast Clsuter Enhanceme nts	Expression of Interest Submitted.	The Port of Miflford Haven are at early stage proposals in collaboration with the Sunderland Trust, PCC and The National Musesum of the Royal Navy To create a new sense of place for Pembroke Dock with themes of maritime and	£6m
Total			19.7m

Table 6.3 Other funding breakdown per year

Source	2018/19	2019/20	2020/21	2021/22	2022/23	2023/2024	Total
Swansea Uni	£0	£96,832	£107,293	£93,365	£65,629	£11,710	£374,829
Bangor Uni	£0	£37,312	£26,049	£26,049	£9,185	£19,517	£118,110
Cardiff Uni	£254	£36,305	£81,827	£50,909	£23,277	£0	£192,572
Cardiff Met Uni	£0	£13,405	£18,068	£14,955	£5,859	£0	£52,286
META (TMF)	£150,000	£150,000	£100,000				£400,000
Welsh Govt	40,000	£20,000					£60,000
Wavehub Ltd	£19,500	£39,972	£4,400				£63,872
Total	£209,754	£393,826	£337,637	£185,277	£103,949	£31,226	£1,261,669

£1,261,669

Table ES1: Net additional operational jobs						
	Option 1	Option 2	Option 3	Option 4		
B8: Storage	-	319	5	319		
B1: Business	-	370	139	370		
B2: General Industry	-	1,192	-	1,192		
Net additional	0	1,881	139	1,881		

1881 139 1881

Table ES2: Net additional GVA (£m 2018 prices)					
	Option 2	Option 3	Option 4		
Annual GVA*	£73.50	£5.40	£73.50		
Cumulative GVA	£343.40	£26.40	£343.40		

	Option 2	Option 3	Option 4
Present Value Costs (including OB) ³	42.7	4.4	75.5
Present Value Benefits:	0	0	0
Land Value Uplift	0.177	0.004	0.177
Wage premium	78.8	6.5	81.1
Distributional benefits ¹	25.2	2	26
Environmental benefits	8.2	2.5	8.2
Total benefits	112.4	11.0	115.5
NPPV	69.7	6.7	40
BCR (adjusted)	2.63	2.52	1.53

		Option 2	Option 3	Option 4
A	Present Value Benefits[1]	87.1	9	89.4
В	Present Value Costs / (Surplus)	42.7	4.4	75.5
С	Present Value of other quantified impacts	25.2	2.1	26
D	Net Present Public Value A- B	44.4	4.6	13.9
E	'Initial' Benefit- Cost Ratio [A/B]	2.04	2.05	1.18
F	'Adjusted' Benefit-Cost Ratio [A+C)/B]	2.63	2.52	1.53
G	Significant Non- monetised impacts	Agglomeration benefits	-	Agglomeration benefits
н	Value for Money (VFM) Category	"High VFM"	"High VFM"	"Acceptable VFM"
1	Switching Values (BCR=1:1)	-62%	-60%	-35%
J	Financial Cost (undiscounted)	45	7.3	80.6
K	Risks	External influences	External influences	External influences

2.045455 1.184106

Table ES5 Costs, benefits and c	ost effectiveness	5				
	Option 2	Option 3	Option 4			
Attributed total public sector economic costs (adjusted for optimism bias, £m)*						
Discounted public sector cost	49.2	6.8	85			
– economic	49.2	0.8	85			
Benefits	Benefits					
Net additional jobs	1,881	139	1,881			
Net additional cumulative	72.5	Γ.4	73.5			
GVA (£m)	73.5	5.4	/3.5			
Cost effectiveness (attributed)						
Cost per net additional job	26,152	47,009	45,182			
BCR (GVA:economic cost)	1.5	0.8	0.9			

 26156
 48921
 45189

 1.5
 0.8
 0.9

Table 4.5: Public sector costs including Optimism Bias (2018 prices)					
	Option 1	Option 2	Option 3	Option 4	
Costs (discounted)	£2.3 million	£45.1 million	£6.8 million	£77.8 million	

	Option 1	Option 2	Option 3	Option 4
B8: Storage	-	20,584	-	20,584
B1: Business		4,100	1,600	4,100
B2: General Industry	-	35,945	-	35,945
Total		60,629	1,600	60,629

	Option 1	Option 2	Option 3	Option 4
B8: Storage	2	321	-	321
B1: Business	-	373	145	373
B2: General Industry	-	1,198	-	1,198
Total		1.892	145	1.892

Table 4.8 Gross operational jobs (FTE) profiled								
	18/19	19/20	20/21	21/22	22/23	23/24	24/25	TOTAL
Option 2	-	699	-	-	697	227	269	1,892
Option 3	-	145		-	-		-	145
Ontion 4		699	277	697	269	-	-	1.942

Table 4.9: Net additional operational jobs					
	Option 1	Option 2	Option 3	Option 4	
B8: Storage	-	319	-	319	
B1: Business	-	370	139	370	
B2: General Industry	-	1,192	-	1,192	
Net additional	0	1 881	120	1 881	

Table 4.10: Net additional GVA (2018 prices)					
	Option 2	Option 3	Option 4		
Annual GVA*	£73.5 million	£5.4 million	£73.5 million		
Commission CVA	C242 4 IIII	C2C 4 IIII	C242 4		

Table 4.11: Land value uplift (2018 prices)					
	Option 2	Option 3	Option 4		
Land value uplift	£177,240	£4,060	£177,240		

Table 4.12: Wage premium (2018 prices)					
Option 2 Option 3 Option 4					
Wage Premium	£78.8 million	£6.5 million	£81.1 million		

Table 4.13: Net equivalised disposable household income – 2015/16 (3-year average)							
	Bottom Quintile	Second Quintile	Middle Quintile	Fourth Quintile	Top Quintile		
Wales	25%	22%	21%	19%	14%		
Welfare Weight	2.416	1.442	1	0.693	0.415		
	0.604	0.317	0.21	0.132	0.058	1.3	

Table 4.14: Environmental benefits (discounted, 2018 prices)					
	Option 2	Option 3	Option 4		
Carbon Dioxide (CO ₂) savings	£8.2 million	£2.5 million	£8.2 million		

Table 4.15: Net external impact (2018 prices, £m) ²					
	Option 2	Option 3	Option 4		
Land Value Uplift	£0.177	£0.004	£0.177		
Wage premium	78.8	6.5	81.1		
Distributional benefits ¹	25.2	2	26		
Environmental benefits	8.20	2.50	8.20		
Total net external	112.4	11.0	115.5		

	Option 2	Option 3	Option 4
Present Value Costs (including OB) ³	42.7	4.4	75.5
Present Value Benefits:			
Land Value Uplift	0.177	0.004	0.177
Wage premium	78.8	6.5	81.1
Distributional benefits ¹	25.2	2	26
Environmental benefits	8.2	2.5	8.2
Total benefits	112.4	11.0	115.5
NPPV	69.7	6.7	40
BCR (adjusted)	2,63	2.52	1.53

Table 4.21: Appraisal Summary Table (£000s)					
		Option 2	Option 3	Option 4	
А	Present Value Benefits[1]	87.1	9	89.4	
В	Present Value Costs / (Surplus)	42.7	4.4	75.5	
С	Present Value of other quantified impacts	25.2	2.1	26	
D	Net Present Public Value A-B	44.4	4.6	13.9	
E	'Initial' Benefit- Cost Ratio [A/B]	2.04	2.05	1.18	
F	'Adjusted' Benefit-Cost Ratio [A+C)/B]	2.63	2.52	1.53	
G	Significant Non- monetised impacts	Agglomeration benefits	-	Agglomeration benefits	
н	Value for Money (VFM) Category	"High VFM"	"High VFM"	"Acceptable VFM"	
ı	Switching Values (BCR=1:1)	-62%	-60%	-35%	
J	Financial Cost (undiscounted)	45	7.3	80.6	
к	Risks	External influences	External influences	External influences	

Based on Green Book principles and Green Book Supplementary and Departmental guidance

[1]

Table 4.22: Costs, benefits and cost effectiveness						
	Option 2	Option 3	Option 4			
Attributed total public sector economic costs (adjusted for optimism bias, £m)*						
Discounted public sector cost – economic	49.2	6.8	85			
Benefits						
Net additional jobs	1,881	139	1,881			
Net additional cumulative GVA (£m)	74	5	74			
Cost effectiveness (attributed)						
Cost per net additional job	26,152	47,009	45,182			
BCR (GVA:economic	1.50	0.80	0.90			