

Budget of Clean Hydrogen Joint Undertaking for the financial year 2022 (version 13/01/2022)										
REVENUES (IN EURO)										
Title Chapter Article Item	Heading	Initial budget 2022.0 CA	Initial budget 2022.0 PA	Amended budget 2022.1 CA	Amended budget 2022.1 PA	Amendment 2021.2 CA	Amendment 2021.2 PA	Amended budget 2022.2 CA	Amended budget 2022.2 PA	Remarks
20	SUBSIDIES AND REVENUES									
2001	European Commission subsidy for operational expenditure (7th Framework Programme)	0	0	0	0			0		Council Regulation 2021/2085 of 19 November 2021 on the establishment of the Clean Hydrogen Joint Undertaking
2002	European Commission subsidy for administrative expenditure	3.440.000	3.440.000	3.440.000	3.440.000			3.440.000	3.440.000	Council Regulation 2021/2085 of 19 November 2021 on the establishment of the Clean Hydrogen Joint Undertaking includes EFTA (2.41% in 2020, 2.66% in 2021 and 2.47% in 2022)
2003	Hydrogen Europe contribution for administrative expenditure	2.958.400	2.958.400	2.958.400	2.958.400			2.958.400	2.958.400	Council Regulation 2021/2085 of 19 November 2021 on the establishment of the Clean Hydrogen Joint Undertaking
2004	Hydrogen Europe Research contribution for administrative expenditure	481.600	481.600	481.600	481.600			481.600	481.600	Council Regulation 2021/2085 of 19 November 2021 on the establishment of the Clean Hydrogen Joint Undertaking
2005	European Commission subsidy for operational expenditure (Horizon 2020)	0	40.658.254	0	24.084.204			0	24.084.204	Council Regulation 2021/2085 of 19 November 2021 on the establishment of the Clean Hydrogen Joint Undertaking includes EFTA (2.41% in 2020, 2.66% in 2021 and 2.47% in 2022)
2006	EC subsidy Horizon Europe			303.705.000	80.000.000			303.705.000	80.000.000	Council Regulation 2021/2085 of 19 November 2021 on the establishment of the Clean Hydrogen Joint Undertaking includes EFTA (2.41% in 2020, 2.66% in 2021 and 2.47% in 2022)
2007	JU revenues									Interest, income from liquidated damages & others
	Total title subsidies and revenues	6.880.000	47.538.254	310.585.000	110.964.204	-	-	310.585.000	110.964.204	
30	REACTIVATIONS									
3014	C2 reactivation of appropriations for administrative expenditure (2018)			0	0			0	0	FCH 2 JU Financial rules article 6 - unused PA for administrative costs re-entered to be used for administrative activities
3015	C2 reactivation of appropriations for operational expenditure (2018)			0	0			0	0	FCH 2 JU Financial rules article 6 - unused CA for operational costs re-entered to be used for operational activities
3016	C2 reactivation of appropriations for administrative expenditure (2019)			0	0			0	0	FCH 2 JU Financial rules article 6 - unused PA for administrative costs re-entered to be used for administrative activities
3017	C2 reactivation of appropriations for operational expenditure (2019)			0	0			0	0	FCH 2 JU Financial rules article 6 - unused CA for operational costs re-entered to be used for operational activities
3018	C2 reactivation of appropriations for administrative expenditure (2020)			876.566	876.566			876.566	876.566	FCH 2 JU Financial rules article 6 - unused PA for administrative costs re-entered to be used for administrative activities
3019	C2 reactivation of appropriations for operational expenditure (2020)			0	0			0	0	FCH 2 JU Financial rules article 6 - unused CA for operational costs re-entered to be used for operational activities
3020	C8 reactivation of appropriations for operational expenditure (2021)			0	0			0	0	FCH 2 JU Financial rules article 6 - unused CA for operational costs re-entered to be used for operational activities
3021	C2 reactivation of appropriations for administrative expenditure (2021)			332.434	332.434			332.434	332.434	FCH 2 JU Financial rules article 6 - de-committed CA for administrative activities re-entered to be used for administrative activities
3022	C2 reactivation of appropriations for operational expenditure (2021)	1.474.819	5.647.049	1.492.043	5.647.049			1.492.043	5.647.049	FCH 2 JU Financial rules article 6 - unused CA for operational costs re-entered to be used for operational activities
3023	C8 reactivation of appropriations for operational expenditure (2022)			221.670	0	333.243,12		554.913	0	FCH 2 JU Financial rules article 6 - unused CA for operational costs re-entered to be used for operational activities
	Total title reactivations	1.474.819	5.647.049	2.922.713	6.856.049	333.243	-	3.255.956	6.856.049	
	TOTAL REVENUES	8.354.819	53.185.304	313.507.713	117.820.254	333.243	-	313.840.956	117.820.254	

Budget of Clean Hydrogen Joint Undertaking for the financial year 2022 (version of 13/01/2022)

EXPENDITURE (IN EURO)

Title Chapter Article Item	Heading	Initial budget 2022.0		Amendment 2022.1	Amendment 2022.1	Amended budget 2022.1		Amendment 2022.2		Amended budget 2022.2		Comments
		Commitment appropriations (CA)	Payment appropriations (PA)	Commitment appropriations (CA)	Payment appropriations (PA)	Commitment appropriations (CA)	Payment appropriations (PA)	Commitment appropriations (CA)	Payment appropriations (PA)	Commitment appropriations (CA)	Payment appropriations (PA)	
1	STAFF EXPENDITURE											
1 1	STAFF IN ACTIVE EMPLOYMENT	3.825.000	3.825.000	20.000	20.000	3.845.000	3.845.000			3.845.000	3.845.000	Salaries for temporary staff and contract agents, family allowances, expatriation and foreign residence allowances, unemployment insurance, insurance against accidents and occupational disease, annual travel costs Interim staff and trainees SNE allowances Installation allowance, daily subsistence, resettlement allowance and removal costs for staff arriving/departing Cost of PMO provisions
1 2	EXPENDITURE RELATED TO RECRUITMENT	5.000	5.000			5.000	5.000			5.000	5.000	Miscellaneous expenditure on staff recruitment (travel expenses)
1 3	MISSIONS AND TRAVEL	60.000	60.000			60.000	60.000			60.000	60.000	Mission expenses
1 4	SOCIOMEDICAL INFRASTRUCTURE AND TRAINING	44.000	44.000			44.000	44.000			44.000	44.000	Training, medical service and mobility costs
1 5	ENTERTAINMENT AND REPRESENTATION EXPENSES	4.000	4.000			4.000	4.000			4.000	4.000	Representation and receptions
	TOTAL TITLE 1	3.938.000	3.938.000	20.000	20.000	3.958.000	3.958.000	-	-	3.958.000	3.958.000	
2	BUILDING, EQUIPMENT AND MISCELLANEOUS EXPENDITURE											
2 3	CURRENT ADMINISTRATIVE EXPENDITURE	855.000	855.000			855.000	855.000			855.000	855.000	Rent, works, insurance, common charges (water/gas/electricity), maintenance, security and surveillance
2 4	CORRESPONDENCE, POSTAGE AND TELECOMMUNICATIONS	520.000	520.000			520.000	520.000			520.000	520.000	IT purchases, software licences, software development
2 2	MOVABLE PROPERTY AND ASSOCIATED COSTS	20.000	20.000			20.000	20.000			20.000	20.000	Purchases and rental of office equipment, maintenance and repair
2 3	CURRENT ADMINISTRATIVE EXPENDITURE	9.000	9.000			9.000	9.000			9.000	9.000	Office supplies, library, translation service, bank charges and miscellaneous office expenditure
2 4	CORRESPONDENCE, POSTAGE AND TELECOMMUNICATIONS	10.000	10.000			10.000	10.000			10.000	10.000	Telephones, video conferences and postal services
2 5	EXPENDITURE ON FORMAL AND OTHER MEETINGS	50.000	50.000			50.000	50.000			50.000	50.000	Official meetings such as SRG, Scientific Committee, Governing Board
2 6	COMMUNICATION COSTS	700.000	700.000	210.000	210.000	910.000	910.000			910.000	910.000	External communication and events
2 7	SERVICE CONTRACTS	647.000	647.000	330.000	330.000	977.000	977.000			977.000	977.000	Studies and audits
2 8	EXPERT CONTRACTS AND MEETINGS	131.000	131.000	649.000	649.000	780.000	780.000			780.000	780.000	Costs related to expert contracts (evaluations, mid-term, ad-hoc and final reviews)
	TOTAL TITLE 2	2.942.000	2.942.000	1.189.000	1.189.000	4.131.000	4.131.000	-	-	4.131.000	4.131.000	
	TOTAL TITLE 1+2 (ADMINISTRATIVE EXPENDITURE)	6.880.000	6.880.000	1.209.000	1.209.000	8.089.000	8.089.000	-	-	8.089.000	8.089.000	
3	OPERATIONAL EXPENDITURE											
3 0 0 1	Implementing the research agenda of FCH Joint Undertaking: 7th Framework Programme (FP7)	-	-			0	0			0	0	This appropriation shall cover the operational costs of the JU regarding FP7 grants (pre-financings, interim and final payments) and studies.
3 0 0 2	Implementing the research agenda of FCH Joint Undertaking: Horizon 2020	1.474.819	46.305.304	238.894	-16.574.050	1.713.713	29.731.254	333.243		2.046.956	29.731.254	This appropriation shall cover the operational costs of the JU regarding H2020 grants (pre-financings, interim and final payments), studies and JRC contribution.
3 0 0 3	Implementing the research agenda of FCH Joint Undertaking: Horizon Europe	0	0	303.705.000	80.000.000	303.705.000	80.000.000			303.705.000	80.000.000	
	TOTAL TITLE 3 (OPERATIONAL EXPENDITURE)	1.474.819	46.305.304	303.943.894	63.425.950	305.418.713	109.731.254	333.243	-	305.751.956	109.731.254	
	TOTAL EXPENDITURE	8.354.819	53.185.304	305.152.894	64.634.950	313.507.713	117.820.254	333.243	-	313.840.956	117.820.254	

Title 1 - STAFF COSTS

- 1 1 Staff in active employment
Costs for staff in Staff establishment plan (27 TAs, 2 CAs and 3 SNEs): 3,620,000 (3,616,498 according to exact calculations)- includes an annual indexation of 2% and contingency of 0.8%
Costs for trainees: 32,800 (2 trainees for the whole year, includes travel costs)
Costs for interims: 166,000 (5 interim contracts to be concluded until July 2022)
Costs for other services rendered (PMO:22,500, inter-agencies network: 1,000, Welcome Office:2,300, programmable badges:400)
- 1 2 Expenditure related to recruitment
Costs for new recruitments: 5,000
- 1 3 Missions and travel
15,000 spent in 2020 and around 20,000 foreseen in 2021, increased missions for 2022 but not at the levels of 2019 (
- 1 4 Sociomedical infrastructure
Medical costs: 8,000
Mobility costs: 8,000 (extension of coverage to other green means of transport, eg. e-scooters)
Training: 28,000 (15,000 for general and language training and use of EU Learn, 8,000 for other trainings (eg. EUSA), 5,000 for away day)
- 1 5 Entertainment and representation costs
Around 2,000 spent in 2021

Title 2 - INFRASTRUCTURE

- 2 0 Rental and charges
Rent: 250,000 (following amendment No4 in 2020 and estimated indexation for 2021)
Utility, security charges and insurance: 103,000) and 2,000 for building insurance
Office space refurbishment: 500,000
- 2 1 Information technology
See details in dedicated sheet
- 2 2 Movable property
Although no spending in 2021, increased budget in 2022 due to office refurbishment and change of office plan
- 2 3 Current administrative expenditure
Translation services: 2,000 (according to forecast provided in eCdT platform)
Office supplies: 6,000
Books: 1,000
- 2 4 Correspondence, postage and telecommunication
Telephony, teleconference and mobile costs: 7,000
Correspondence and postage services: 3,000
- 2 5 Expenditure on formal and other meetings
Decrease to reflect actual consumption of pre-COVID era
- 2 6 Communication costs
See details in dedicated sheet
- 2 7 Service contracts
Accounting services and validation of accounting systems: 67,000
Audits on annual accounts for years 2022-2023: 55,000
Maintenance of database for HRS in our web: 100,000 / year (implemented through specific contracts)
Intra-muros services: 10 FTEs will start as of September until December 2022 with the following assumptions: junior consultant cost per day: EUR 650 (2 FTEs), senior consultant per day: EUR 900 (8 FTEs)
Study on workload and feasibility for Back-office arrangements: 50,000
- 2 8 Expert contracts and meetings
Evaluations: 2 calls, 330 proposals and 126 experts for a total of 649,000 (assuming physical presence)
Mid-term reviews: 30 reviews planned in the period January to December 2022 with 229 expert days and a total cost of EUR 113,000 (including 10 onsite visits)
Final reviews: 12 reviews planned between January 2022 and February 2023 with 62 expert days and a total cost of EUR 28,000

Estimation of costs - Charges for the Service Level Agreement with DG HR for 20

basis Ares(2021)1149076 of 10/02/2021

Type of service	Estimated No of service *	Cost per service**	Total cost
Language training	97	53	5.154,25
General & digital training	28	246	6.929,00
Pre-recruitment & annual medical visits	1	493	493,00
EU Learn	31	30	930,00
Welcome Office & PPI	31	75	2.325,00
Security badges	15	35	525,00
Sysper - staff	100	292	29.200,00
Vaccination against influenza	3,1	39	120,90
Dispensary services	0,31	235	72,85

* based on 2018 consumption or population

**indicative charges 2020

BLs	Cost
1100	2.850,00
1400	13.700,00

BL	Remarks
1400	Charge based on average number of training days in last 3 years: 78 days in 2018, 123.75 in 2019, 67.5 (until 03/09) in 2020
1400	Charge based on average number of training days in last 3 years: 8 days in 2018, 26,5 in 2019, 36 (until 03/09) in 2020
1400	Charge based on deliverable; based on trends: 1 in 2020, X in 2021 (provision)
1400	Charge based on population (29 Tas+Cas) + 2 SNEs, basis is updated SEP for 2022
1100	Charge based on population (29 Tas+Cas) + 2 SNEs, basis is updated SEP for 2022
1100	Charge based on deliverable
2100	Charge based on population (29 Tas+Cas) + 2 SNEs BUT minimum 100 statutory staff per body
1400	10% of the statutory staff members for vaccination
1400	1% of statutory staff members for dispensary services

	Financial year 2022	
	Commitment	Appropriations
IT infrastrucutre (hardware + software)	414.911	
IT managed services / WA Infrastructure improvements & recurring costs	135.000,00	
Software maintenance renewal & SLA fees	225.800,00	
ABAC fee	30000	
DIGIT services fees	109085,00	
IT Hosting services for the ABAC System		5500,00
ICT Procurement services		11502
ARES fee		8458
FCH Website hosting 12 months MoU DIGIT "Next Europa-CMS" services		10000
CHE Website annual operational fee for 2022		25000
40days Web developments by DIGIT Next Europe fwc		20800
40 days for H2Forum development		20800
annual cost on e-prior		5000
RACHEL service		2025
Microsoft annual fee for software licenses scenario C2	17130,96	
DMS annual maintenance renewal 21/12/2022 - 20/12/2023	5195,14	
IMI cloud Platform hosting costs recovery order	2500	
SLA CERT-EU	12166,66667	
SYSPER Fee	29500	Ares(2021)1149076
MIPS Fee	3750	
SYSTAL Fee	6572,67	
Reservations for any additional tools	9899,563333	
Hardware / Copier	25.000,00	
Common service contracts managed by FCH with recovery orders	29.111,47	
Fixed telephony	9.000,00	

Services	Cost	Remark	Status
European Hydrogen week in November	400.000,00	Indicative price for a hybrid event of 5 days based on estimated 2021 offer for 5 days, incl. external venue, assumption of increased physical presence it also includes production of video	
Car lease	50.000,00	Negotiated procedure for middle value contract	
Conference assistants for the event	3.000,00	Under SCIC/C1/2018/FWC/01	
General promotional items (building, car, EHW)	10.000,00	SCIC/2021/OP/0001	
Editing, writing and proofreading of PR2021, AAR 2021, success stories, articles, posters, award teasers	50.000,00	Editing, layout and proofreading by OP	
Graphic design services (eg. Valleys, AAR 2021)	30.000,00	Through the FWC PO/2018-02/A4 (ESN)	
Media planning following public opinion survey results	30.000,00	Through FWC COMM/2019/OP/0029 (lot 1)	
Media buying and analysis for EU-27 (indicated in the AWP communication plan)	72.500,00	Through FWC COMM/2019/OP/0029 (lot 2)	
Modular booth	200.000,00	FWC???	
Feasibility study for a booth	5.000,00	FWC???	
2 sponsorships	20.000,00	Direct contracts	
2 articles	2.000,00	Direct contract/ invoices	
Costs associated to car (cleaning, change of tyres)	1.000,00	Separate provisional commitment	
Provision for OP pub	2.000,00	Based on 2021 consumption	
Christmas card	4.500,00	Through the FWC PO/2018-02/A4 (ESN)	

Media monitoring	20.000,00	SIDE II
Contribution to NOW booth for Hannover Messe (25-29 April)	10.000,00	Direct contract
TOTAL	910.000,00	

Report Title

Project Acronym	Project Call Id	Project Start Date	Proj Review Timing Months	
HyCARE	H2020-JTI-FCH-201	01-01-19	26	28-02-21
PRHYDE	H2020-JTI-FCH-201	01-01-20	14	28-02-21
REVIVE	H2020-JTI-FCH-201	01-01-18	39	31-03-21
Demo4Grid	H2020-JTI-FCH-201	01-03-17	50	30-04-21
H2Haul	H2020-JTI-FCH-201	01-02-19	27	30-04-21
JIVE 2	H2020-JTI-FCH-201	01-01-18	42	30-06-21
RoRePower	H2020-JTI-FCH-2018-1			30-06-21
JIVE	H2020-JTI-FCH-201	01-01-17	55	31-07-21
H2Ports	H2020-JTI-FCH-201	01-01-19	32	31-08-21
HEAVEN	H2020-JTI-FCH-201	01-01-19	32	31-08-21
FURTHER-FC	H2020-JTI-FCH-201	01-01-20	25	30-09-21
ANIONE	H2020-JTI-FCH-201	01-01-20	21	30-09-21
CAMELOT	H2020-JTI-FCH-201	01-01-20	21	30-09-21
CHANNEL	H2020-JTI-FCH-201	01-01-20	21	30-09-21
Djewels	H2020-JTI-FCH-201	01-01-20	21	30-09-21
EMPOWER	H2020-JTI-FCH-201	01-01-20	21	30-09-21
HIGGS	H2020-JTI-FCH-201	01-01-20	21	30-09-21
HyResponder	H2020-JTI-FCH-201	01-01-20	21	30-09-21
NEWELY	H2020-JTI-FCH-201	01-01-20	21	30-09-21
NewSOC	H2020-JTI-FCH-201	01-01-20	21	30-09-21
RUBY	H2020-JTI-FCH-201	01-01-20	21	30-09-21
SWITCH	H2020-JTI-FCH-201	01-01-20	21	30-09-21
THyGA	H2020-JTI-FCH-201	01-01-20	21	30-09-21
VIRTUAL-FCS	H2020-JTI-FCH-201	01-01-20	21	30-09-21
DOLPHIN	H2020-JTI-FCH-201	01-01-19	25	30-09-21
FLAGSHIPS	H2020-JTI-FCH-201	01-01-19	36	31-12-21
ShipFC	H2020-JTI-FCH-201	01-01-20	24	31-12-21
REMOTE	H2020-JTI-FCH-2017-1			31-12-21

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denotes confirmed

Programme	Call	Project number	Project acronym	Project officer
H2020	H2020-JTI-FCH-2017-1	779730	TeacHy	Alberto
H2020	H2020-JTI-FCH-2018-1	826161	WASTE2GRIDS	Antonio
H2020	H2020-JTI-FCH-2017-1	779537	OxiGEN	Dionisis
H2020	H2020-JTI-FCH-2015-1	700350	H2ME 2	Lionel
H2020	H2020-JTI-FCH-2016-1	736122	COSMHYC	Pietro
H2020	H2020-JTI-FCH-2016-1	735969	INN-BALANCE	Pietro
H2020	H2020-JTI-FCH-2017-1	779430	GRASSHOPPER	Antonio

Type of Reporting period	End Reporting period	Review foreseen in GA for 2021	Do you plan a review not foreseen in GA? Y/N
Final	31-10-20		Y
Final	31-12-20		Y
Final	31-12-20		Y
Interim	31-12-20		Y
Final	28-02-21		Y
Final	30-07-21		Y
Final	30-06-21		possibly

Justification (answer either if the answer is Y/N)	Purpose of review (ad hoc/PR/FR)
The project duration will most likely be extended. Final extension ranges between 6 and 24 months but still to be agreed. As a result of the final	PR
The results of this project are of specific interest to electricity system operators. One of the experts involved in the mid-term review works in this	FR
The project faced significant difficulties and low in TRL. Expert support is necessary to assess the results.	FR
The project is deviating from targets for FCEV deployment and HRS construction. Experts could support in providing recommendations for	ad hoc
There are 3 FCH JU funded projects with the same consortium relying on the same technology solution (hybrid compression on metal hydride and	FR
The project was subject to several delays due to technical difficulties and change in the consortium configuration. It was subject to two extensions and	FR
The project will be very likely extended due to COVID-19. This would postpone of the final review to 2022, what may have an impact on the due	The project will be very likely extended

For PO input

Meeting with project team (yes/no)	Location	Estimated date for review	Number of external experts
Online meeting	video conference	tbd	2
Possibly a presentation of project results	video conference	mars-21	1
NO		spring 2021	1
yes	TBD	spring 2021	2
no	remote	May 2020	1
possibly	Online/remote	Oct 2020	1

Days per expert	Any other notes
3,5	As a result of the final duration, the need of a review with experts will be considered.
2,5	
2,5	
3,5	
2,5	
2,5	

FCH JU. Forecast of payments to be done. Calls 2008-2013: Updated information at 05/09/2014

Call	Commitment L1	Commitments L2 (C1/C2/C4/C5)	C2	C4/C5	Payments															TOTAL	Difference due to finalised projects	Difference as per this table
					2009 (actual)	2010 (actual)	2011 (actual)	2012 (actual)	2013 (actual)	2014 (actual)	2015 (actual)	2016 (actual)	2017 (actual)	2018 (actual)	2019 (actual)	2020 (actual)	2021	2022	2023			
2008	28.771.590	#VALUE!		413.421	17.298.820	553.941	2.077.918	1.419.710	508.154	1.685.829	973.118								24.517.490	#VALUE!	#VALUE!	
2009	72.970.240	#VALUE!		405.303		39.340.166	3.308.584	3.461.450	4.738.071	6.542.048	5.474.876	0	6.139.482						69.004.677	#VALUE!	#VALUE!	
2010	74.949.394	#VALUE!					47.755.812	563.652	3.825.816	7.639.985	2.964.797	4.147.126	1.688.961	78.523	0	2.342.791			71.007.463	#VALUE!	#VALUE!	
2011	111.645.257	#VALUE!	7.772.602				44.782.934	2.927.385	11.493.273	14.689.648	17.206.770	8.021.999	1.439.691	1.797.017	1.400.000	936.160			104.694.877	#VALUE!	#VALUE!	
2012	62.504.815	#VALUE!	901.554					28.151.279	2.210.121	12.443.874	9.481.543	5.217.509	4.388.382	1.047.496	0	0			62.940.205	#VALUE!	#VALUE!	
2013	72.070.637	#VALUE!	16.072.939	1.302.010					35.358.776	7.619.684	14.075.000	6.059.670	9.728.160	2.960.579	2.358.691	0	0	3.031.336	81.191.894	#VALUE!	#VALUE!	
Studies 2010	2.800.000	120.888					120.888												120.888	0	0	
Studies 2011	1.500.000																		0	0	0	
Studies 2012		1.300.026						1.215.150	84.876										1.300.026	0	0	
Studies 2013	4.265.200	3.968.758						456.200	3.034.330	478.228									3.968.758	0	0	
Studies 2014 (FP7)									0	0									0	0	0	
TOTAL	431.477.133	#VALUE!	24.747.095	2.120.734	17.298.820	39.894.107	53.263.202	51.442.896	40.691.782	67.964.361	44.644.225	44.910.439	27.127.621	15.634.755	5.805.092	6.101.482	936.159,71	0	3.031.336	418.746.278	#VALUE!	#VALUE!