

## ANNEX

### 2.2.4.1 Calls For Tenders

In 2022, the Clean Hydrogen Joint Undertaking will carry out a number of operational activities via calls for tenders (i.e. public procurement) for an indicative amount of **EUR 2.5 million**. These activities will be financed by Horizon Europe. The procurement activities are covering subjects of a strategic nature for the Clean Hydrogen JU, providing input to R&I priority setting and supporting further financing, deployment and commercialisation of renewable hydrogen and fuel cells projects.

For each of the procurements, detailed Terms of Reference will be drafted with European Commission participation. The following indicative list of procurements is currently foreseen:

Subject (Indicative title)	Indicative budget (EUR)	Expected type of procedure	Schedule Indicative
<p><b>European Hydrogen Observatory</b></p> <p><i>Public procurements foreseen to ensure the smooth and improved replacement of the current FCHO platform by the European Hydrogen Observatory with a foreseen duration of 4 years; the procurement activities include a call for tender for services and the provision of services by the Members in accordance with article 43.4 of the Financial Rules of the Clean Hydrogen JU.</i></p> <p><i>In close collaboration and complementarity to related activities of private members.</i></p>	2,000,000	Open procedure	Q1
<p><b>Study on sustainable supply chain and industrialisation of hydrogen technologies</b></p> <p><i>Tender study to update the EU manufactures list along the hydrogen value chain technologies, find potential gaps / bottlenecks in the supply and provide mitigation actions. The estimated duration is 18 months.</i></p>	500,000	Open procedure	Q2-Q3
<p><b>Study on Opportunities for cooperation on clean hydrogen with neighbouring countries and regions, in particular Ukraine.</b></p> <p><i>Call for tender proposed under the form of a direct contract for services with member Hydrogen Europe, following article 43.4 of the Financial Rules of the Clean Hydrogen Joint Undertaking.</i></p>	548.000	Direct Contract	Q3-Q4

The final budgets awarded to actions implemented through procurement procedures may vary by up to 20% of the total value of the indicative budget.

## **SECTION 3**

### **BUDGET 2022**

2022 budget covers all administrative needs for the year, financed only by H2020 credits, as well as H2020 and Horizon Europe operational activities.

The estimated revenue of the JU for the year 2022 include contributions to the administrative costs from Hydrogen Europe and Hydrogen Europe Research as well as the contribution of the Union for administrative costs and operational activities.

The 1<sup>st</sup> amendment to 2022 complements the initial budget with the following provisions:

- Horizon Europe operational commitments (EUR 303 705 000) and payments (EUR 80 000 000), both under expense budget line 3003. Operational commitments will cover the launch of the 1<sup>st</sup> call under Horizon Europe as well as procurement plan as detailed in section 2.2.4, whereas payments will cover mainly the first pre-financing needs. They will be financed by appropriations from Horizon Europe 2021 and 2022 voted budget, as detailed under revenue budget line 2006.
- H2020 commitment appropriations will increase by EUR 238 894.05 (expense budget line 3002) to complement the procurement activities financed under H2020. This additional provision will be financed through reactivations of unused appropriations from previous years, as detailed under revenue budget lines 3022 and 3023.
- Administrative commitment and payment appropriations of EUR 1 209 000 to cover increased needs in communication (+ EUR 210 000 for the construction of a modular booth), in service contracts (+280,000 for service contracts for support activities, implementing the procurement procedure listed under section 2.3.2; in addition, + EUR 50 000 for an assignment on consulting services in the field of human resources) as well as evaluators under expert contracts and meetings (+ EUR 649 000). These additional expenses will be financed entirely by reactivations of unused appropriations from previous years as stated in the revenue table under budget lines 3018 and 3021.

On the other side, H2020 payment appropriations (expense budget line 3002) will decrease by EUR 16 574 050 as an outcome of updated payment needs. This decrease will be applied to the fresh appropriations asked by the Union (revenue budget line 2005).

The 2<sup>nd</sup> amendment to 2022 budget introduces H2020 unused commitment appropriations that became available in 2022 for an amount of EUR 333,243.12 to cover for (part of) experts carrying out mid-term reviews for H2020 projects and for the study on “opportunities for cooperation on clean hydrogen with neighbouring countries and regions, in particular Ukraine” as detailed in section 2.2.4.1.

**Table 3.1: Revenues (amount in EUR)**

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
<b>20</b>	<b>SUBSIDIES AND REVENUES</b>									
2001	European Commission subsidy for operational expenditure (7th Framework Programme)	0	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
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
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
2007	JU revenues									Interest, income from liquidated damages & others
	<b>Total title subsidies and revenues</b>	<b>6,880,000</b>	<b>47,538,254</b>	<b>310,585,000</b>	<b>110,964,204</b>	<b>-</b>	<b>-</b>	<b>310,585,000</b>	<b>110,964,204</b>	
<b>30</b>	<b>REACTIVATIONS</b>									
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		554,913	0	FCH 2 JU Financial rules article 6 - unused CA for operational costs re-entered to be used for operational activities
	<b>Total title reactivations</b>	<b>1,474,819</b>	<b>5,647,049</b>	<b>2,922,713</b>	<b>6,856,049</b>	<b>333,243</b>	<b>-</b>	<b>3,256,956</b>	<b>6,856,049</b>	
	<b>TOTAL REVENUES</b>	<b>8,354,819</b>	<b>53,185,304</b>	<b>313,507,713</b>	<b>117,820,254</b>	<b>333,243</b>	<b>-</b>	<b>313,840,956</b>	<b>117,820,254</b>	

**Table 3.2: Expenditure (amount in EUR)**

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
		CA	PA	CA	PA	CA	PA	CA	PA	CA	PA	CA	PA	
1	<b>STAFF EXPENDITURE</b>													
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
	<b>TOTAL TITLE 1</b>	<b>3,938,000</b>	<b>3,938,000</b>	<b>20,000</b>	<b>20,000</b>	<b>3,958,000</b>	<b>3,958,000</b>	-	-	<b>3,958,000</b>	<b>3,958,000</b>			
2	<b>BUILDING, EQUIPMENT AND MISCELLANEOUS EXPENDITURE</b>													
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 (evaluation)
	<b>TOTAL TITLE 2</b>	<b>2,942,000</b>	<b>2,942,000</b>	<b>1,189,000</b>	<b>1,189,000</b>	<b>4,131,000</b>	<b>4,131,000</b>	-	-	<b>4,131,000</b>	<b>4,131,000</b>			
	<b>TOTAL TITLE 1+2 (ADMINISTRATIVE EXPENDITURE)</b>	<b>6,880,000</b>	<b>6,880,000</b>	<b>1,209,000</b>	<b>1,209,000</b>	<b>8,089,000</b>	<b>8,089,000</b>	-	-	<b>8,089,000</b>	<b>8,089,000</b>			
3	<b>OPERATIONAL EXPENDITURE</b>													
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. Also cost for experts H2020 mid-term, ad-hoc and final reviews
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	
	<b>TOTAL TITLE 3 (OPERATIONAL EXPENDITURE)</b>	<b>1,474,819</b>	<b>46,305,304</b>	<b>303,943,894</b>	<b>63,425,950</b>	<b>305,418,713</b>	<b>109,731,254</b>	<b>333,243</b>	-	<b>305,751,956</b>	<b>109,731,254</b>			
	<b>TOTAL EXPENDITURE</b>	<b>8,354,819</b>	<b>53,185,304</b>	<b>305,152,894</b>	<b>64,634,950</b>	<b>313,507,713</b>	<b>117,820,254</b>	<b>333,243</b>	-	<b>313,840,956</b>	<b>117,820,254</b>			

## *Revenues*

As per articles 76, 77 and 81 of the Council Regulation No 2021/2085 of 19/11/2021, the Union shall contribute 50%, the Industry Grouping 43% and the Research Grouping 7% to the administrative budget.

The administrative budget for 2022 will be financed entirely by Members' contributions under H2020.

Operational expenses are covered entirely by the EC subsidy. For the 2022 budget, both H2020 and Horizon Europe appropriations will be used. The commitment appropriations for H2020 come from unused appropriations of previous years that are reactivated in 2022 budget.

## *Expenditure*

Overall, the administrative budget (Titles 1 and 2) will show an increase by 54% (EUR 2 834 707) compared to the executed 2021.

In more details:

### *Title 1 – Staff*

Title 1 (staff costs) will represent 48% of the administrative costs in the 2022 budget. It mainly covers salaries (97% of the Title 1 amount) whereas other budget lines cover missions, training & socio-medical costs, recruitment costs and representation expenses.

Title 1 will show an increase by 11% (EUR 386 178) compared to 2021 committed amounts. This is due to:

- An increase by 9.4% in budget line for staff in active employment. The budget will be increased compared to 2021 since 2 additional staff persons will be recruited in 2022, in line with the Staff Establishment Plan for 2022. An indexation of 2% (applicable as of the second half of the year) is included in this provision. On the other side, interim contracts are estimated to be less (5) than in 2021 (9).
- Sociomedical infrastructure and training will increase by 29% (EUR 10 008) due to the increased medical costs estimated (pre-recruitment and annual medical tests) as well as the increased mobility costs.
- Mission expenses will quadruple compared to 2021 execution as more missions are foreseen for 2022 with the ease of travel restrictions. Nevertheless, missions will not reach at the level of pre-covid era.

On the other side, recruitment expenses will be lowered in 2022 but this is only because in 2021 most costs came from the assessment centre for the recruitment of the new Head of Unit. This year's provision will cover for the new recruitments as per the Staff Establishment Plan.

### *Title 2 – Infrastructure*

Title 2 represents 52% of the administrative costs in 2022. Title 2 will more than double compared to 2021. This is mainly due to a significant increase in service contracts as well as rentals and building charges. In more details:

- Service contracts will increase by nearly 6 times (+EUR 820 547 compared to 2021). The main reason for this increase is the provision of intra-muros services in the field of communication, knowledge management and project management with the aim to

provide business continuity. The provision for these services is EUR 705 000. In addition, a provision for audits in annual accounts is included in 2022 (EUR 55 000) compared to 2021. This assignment is contracted on a biannual basis. Adding to these is a provision for an assignment on consulting services in the field of human resources (EUR 50 000).

- Communication costs will increase by 50% (EUR 301 724) on the assumption that European Hydrogen week in 2022 will be carried out with increased physical presence. In addition, the construction of a modular booth is foreseen.
- Rentals and building charges will be more than doubled compared to 2021 (increase by EUR 501 420) due to the office space refurbishment costs.
- IT costs will increase by 14% (EUR 61 820) due to a planned upgrade of audiovisual equipment for the meeting rooms of the 1<sup>st</sup> floor, costs associated to office space refurbishments and Infosec new regulation costs.
- Expert contracts and meetings will increase by EUR 692 250 as a provision for the evaluators is included.
- Movable property will double (an increase of EUR 19 502) because of anticipated office furniture purchases in the context of new office arrangements.

On the other side, telecommunication costs will remain at the level of 2021 execution as the effect of migrating fixed telephony to MS Teams Voice, being free of charge.

### *Title 3 – Operational*

The amended 2022 budget includes both H2020 and Horizon Europe commitment and payment appropriations.

For H2020, commitment appropriations are coming from reactivation of unused appropriations from 2021 and 2022 for an amount of EUR 2 046 956 and will cover amongst else:

- JRC plan for 2022 (committed for EUR 695 000).
- The second specific contract under the framework contract for the Guarantees of Origin (EUR 488 000).
- The work of European Hydrogen Safety Panel 2022 (EUR 200 000).
- The remuneration of H2020 experts for mid-term, ad-hoc and final reviews (EUR 115 000).
- The study on “opportunities for cooperation on clean hydrogen with neighbouring countries and regions, in particular Ukraine” (EUR 548 000).

H2020 payment appropriations will cover for H2020 interim and final payments (currently 62 are estimated, 17 final and 45 interim) as well as procurement activities included in previous AWP, payments for JRC (balance of 2021 plan and pre-financing for 2022) and payments for the expert contracts in European Hydrogen Safety Panel for 2021. Following a large-scale update of 2022 foreseen payments, the actual amount needed will be decreased by EUR 16 574 050 compared to the initial budget.

Horizon Europe commitment appropriations will cover the call that will be published in 2022 and the procurement plan as detailed in section 2.2.4. The payment appropriations will be used for the pre-financing of the 1<sup>st</sup> part of the call, for which the grants are estimated to be signed by end of 2022.



## Summary Statement of Schedule of Payments

The FCH 2 JU Schedule of payments represents a summary statement of the schedule of payments due in subsequent financial years to meet budget commitments made in previous financial years as well as in 2022.

### CLEAN HYDROGEN JOINT UNDERTAKING Budget 2022

#### SUMMARY SCHEDULE OF PAYMENTS (Operational)

2020 Outturn		2021 Outturn		2022 Budget		Difference (2022/2021)	
Committed	Paid	Committed	Paid	CA	PA	CA	PA
93,347,310	93,991,438	10,057,144	43,712,948	305,751,956	109,731,254	2940%	151%

#### DETAILS OF PAYMENT SCHEDULE (Operational)

FP7

Commitments		Payments					Outstanding amount	Total
		2022	2023	2024	2025			
Commitments still outstanding (RAL)	<b>3,039,328</b>	0	3,039,328	0	0	0	<b>3,039,328</b>	
<b>TOTAL</b>	<b>3,039,328</b>	0	3,039,328	0	0	0	<b>3,039,328</b>	

H2020

Commitments		Payments					Outstanding amount	Total
		2022	2023	2024	2025			
Commitments still outstanding (RAL)	<b>118,600,257</b>	29,731,254	58,232,615	13,187,944	4,273,152	13,175,292	<b>118,600,257</b>	
<b>TOTAL</b>	<b>118,600,257</b>	29,731,254	58,232,615	13,187,944	4,273,152	13,175,292	<b>118,600,257</b>	

Horizon Europe

Commitments		Payments					Outstanding amount	Total
		2022	2023	2024	2025			
2022 commitments	<b>303,705,000</b>	80,000,000	102,056,431	30,189,942	44,133,454	47,325,173	<b>303,705,000</b>	
<b>TOTAL</b>	<b>303,705,000</b>	80,000,000	102,056,431	30,189,942	44,133,454	47,325,173	<b>303,705,000</b>	

**FP7:** RAL refers to FCH open commitments from 1 grant for which the final payment is foreseen for 2023

**H2020** pre-2020 RAL refers to 90 grants for which final payment is not yet done (hence not de-committed yet), 4 open commitments from procurement activities and 1 global commitment for the remaining procurement activities of AWP 2021, the open commitment for JRC 2021 and 2022 and the open commitment for EHSP 2021 contracts. In addition, it includes the unused appropriations from previous years that will be reactivated with the 1st amendment of 2022

**Horizon Europe:** payment appropriations for 2022 assume the pre-financing of half of the amount of the call, the 2nd round of pre-financings for the remaining part of the call is foreseen for 2023. Payment schedule for 2024 and 2025 is estimated based on historical trends



