



**FUSION
FOR
ENERGY**

FINAL ANNUAL ACCOUNTS

Financial statements & Budget implementation

Fourteenth financial year – 2021

THE EUROPEAN JOINT UNDERTAKING FOR ITER AND THE DEVELOPMENT OF FUSION ENERGY

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These annual accounts have been drawn up by the Accounting Officer of Fusion for Energy (F4E).

The final accounts, together with the opinion of the F4E Governing Board, are sent to the Commission's Accounting Officer, the European Court of Auditors, the European Parliament and the Council.

The final accounts are published on F4E's website:

<https://fusionforenergy.europa.eu/key-reference-documents/>



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Certification letter from F4E Accounting Officer

I acknowledge my responsibility for the preparation and presentation of the annual accounts of Fusion for Energy (F4E) in accordance with Article 102 of the Framework Financial Regulation ('FFR')¹ and I hereby certify that the annual accounts of F4E for the year 2021 have been prepared in accordance with Title IX of the FFR and the accounting rules adopted by the Commission's Accounting Officer, as are to be applied by all the institutions and union bodies.

I have obtained from the Authorising Officer, who certified its reliability, all the information necessary for the production of the accounts that show the F4E's assets and liabilities and the budgetary implementation. Based on this information, and on such checks as I deemed necessary to sign off the accounts, I have a reasonable assurance that the accounts present fairly, in all material aspects, the financial position, the results of the operations and the cash-flow of F4E.

Mr Roberto Abad Villanueva
Accounting Officer

Done in Barcelona, 1st June 2022

¹ COMMISSION DELEGATED REGULATION (EU) 2019/715 of 18 December 2018 on the framework financial regulation for the bodies set up under the TFEU and Euratom Treaty and referred to in Article 70 of Regulation (EU, Euratom) 2018/1046 of the European Parliament and of the Council.

1. Introduction

F4E is a Joint Undertaking created under the Euratom Treaty by a decision of the Council of the European Union (EU)².

F4E was established for a period of 35 years from 19th April 2007 and its seat is located in Barcelona, Spain.

The main tasks of F4E are as follows:

- In relation to the obligations stemming from the ITER International Agreement: to provide the contribution of the European Atomic Energy Community (Euratom) to the ITER International Organisation (IO).
- In relation to the obligations stemming from the Broader Approach Agreement with Japan (BA): to provide components, equipment, materials and other resources for BA activities and to prepare and coordinate Euratom's participation in the implementation of BA activities.
- In relation to DEMO: to prepare and coordinate a programme of research, development and design activities other than ITER and BA activities, in preparation for the construction of a demonstration fusion reactor and related facilities, including the IFMIF (International Fusion Materials Irradiation Facility).

Regarding the ITER project, in November 2016 the Council of IO approved a new ITER project baseline for the scope, schedule and the cost of the project. The overall project schedule is based on a progressive four-stage approach with the so-called 'First Plasma' in December 2025 and culminating in the 'Deuterium-Tritium' phase in December 2035. Following the approval of the new ITER project baseline, F4E set the new timetable and recalculated the related cost at completion of the F4E's contribution to the project construction phase.

In addition to the construction of the machine, F4E will have to contribute to the ITER operational phase and to the subsequent ITER deactivation and decommissioning phases. The F4E contribution to the deactivation and the decommissioning phases are defined as EUR 95 540 000 (in 2001 values) and EUR 180 200 000 (in 2001 values).

For the Multiannual Financial Framework (MFF) period 2021-2027, the European Council has agreed a budget for the Euratom contribution to ITER amounting to a total value of EUR 5 614 million (in current values) of which EUR 5 560 million (in current value) of direct contribution to the project. The ITER Host State and Membership contributions will be added to this figure, subject to the final decision by the relevant Budgetary Authorities.

² Council decision 2021/281/Euratom of 22 February 2021 Amending Decision 2007/198/Euratom establishing the European Joint Undertaking for ITER and the Development of Fusion Energy and conferring advantages upon it.

a) F4E revenue is made up of the:

- **Euratom contribution**

The contribution from Euratom constitutes the main source of revenue for F4E.

The annual contribution is determined in the European Union General Budget in commitment and in payment appropriations, as well as the F4E establishment plan. The revenue received from Euratom is earmarked for operational expenditure and for administrative expenditure (running costs).

- **The ITER Host State Contribution (France)**

The contribution from the ITER Host State constitutes the second source of revenue for F4E. It corresponds to the commitment from the Host State to cover 9.09% of the total costs of the ITER construction phase, equivalent to 20% of F4E budget for ITER construction excluding expenditure related to Transportation and Test Blanket Modules. The precise scope, conditions and the global amount of the French contribution until 2020 have been agreed in a formal exchange of letters between France and the European Commission in 2011³. This agreement ended on 31st December 2020 and the establishment of a new legal framework is of paramount importance to support the political commitment taken by France in 2006 to contribute to the ITER project. F4E and Euratom are discussing a new methodology (post 2020) with France that should be finalized in the coming months. In the meantime, France has committed to continue to honour its commitments throughout the implementation of the ITER project.

- **The Membership contributions (F4E Members except Euratom)**

The Annual Membership Contributions are established and adopted annually within the budget. It corresponds to 10% of the administrative budget and are universal (not assigned) revenue.

- **Reserve Fund and other tasks requested and financed by IO**

The revenue from the Reserve Fund managed by the IO is assigned to the implementation of change orders originating from IO which take place in the framework of the contractual relationships between F4E and the various suppliers.

The revenue from the Reserve Fund and from other requested tasks is earmarked for financing the corresponding requests for change from IO introduced after 5th March 2015.

³ Contribution financière française à la construction d'ITER - Letter from The Haut Representant Français pour ITER to the EU Commission on 08/09/11 and reply on 17/11/11.

b) United Kingdom and Switzerland Participation in ITER Programme

On 1 February 2020 the UK ceased to be a Member State of the EU. Following the conclusion of the Agreement on the withdrawal of the UK from the EU and the Euratom (the 'Withdrawal Agreement') between the two parties, the UK committed to pay all its obligations under the 2014-2020 MFF and previous financial perspectives following from its membership of the Union. The UK has paid into the 2020 EU Budget during the year, and received payments, as if it was a Member State.

The UK and EU concluded negotiations on future UK relationship with the EU on 24 December 2020, however the agreement was not ratified during 2021 and therefore had no effect on the herein reported F4E financial year.

According to the 2020 agreement, after its ratification the UK will become an associate member state of Euratom and shall retain participation in all parts of the Euratom programme, under equivalent conditions as full Member States.

Article 8 of the EU-UK Joint Declaration states that the UK will continue to participate as a member of F4E. The UK financial contribution is subject to negotiation. Once Britain's membership shall take effect, UK economic operators will be able to sign new contracts and grants with F4E and British citizens will be again eligible for F4E employment. Existing contracts, with companies and individuals, are not impacted, while grants with UK beneficiaries have been terminated or suspended until ratification.

On 31st December 2020 the research cooperation agreement between Switzerland and the EU expired. This cooperation agreement covered, among other fields, the Swiss participation to Euratom research programmes (including fusion and ITER), therefore on the same date Switzerland ceased being an F4E Member.

No new agreement was negotiated between Euratom and Switzerland during 2021, therefore Switzerland remained a non-member for the whole duration of the 2021 financial year and therefore paid no contribution to the F4E budget.

Existing contracts, with companies and individuals, are not impacted, while grants with Swiss beneficiaries have been terminated or suspended.

c) Main achievements during 2021

During 2021 F4E has further progressed in the work and continued the delivery of some of the major components to ITER in order to start the assembly activities according to plan for the achievement of First Plasma at the end of 2025. Notably in 2021 F4E delivered three Toroidal Field coils in 2021 which makes a total of 6 Toroidal Coils delivered out of 10 assigned to F4E, and three Poloidal Field coil magnets.

It should be noted that IO is currently re-planning the First Plasma baseline, the outcome of which is expected to be decided by the ITER Council in 2022 and F4E will subsequently adjust its planning accordingly.

Both design and manufacturing activities have progressed in Europe in laboratories and industry.

In 2021 F4E achieved an overall Schedule Performance Index (SPI):

$$SPI = \frac{\text{Number of milestones achieved to end of previous month}}{\text{Number of milestones in baseline to end of previous month}} = 0.94$$

2021 was the first year of the new 2021-2027 Multiannual Financial Framework.

The achievements during the year are detailed in the 2021 Consolidated Annual Activity report (with the annual accounts in annex).

d) Impact of Covid19

During 2021, the COVID19 pandemic has continued to have significant impacts on the EU economy and F4E supply chain.

Many of the F4E suppliers have been affected by the COVID19 pandemic, with varying restrictions on work attendance and travel, and ongoing and future efficiency impacts due to the enhanced sanitation measures required in most EU member states. The consequences have been assessed as a delay in some deliveries of up to 4 months, and a “cost at completion” impact of EUR 45 million (2008 euros) on the overall project. While the estimated financial impact of COVID19 showed a decreasing trend in 2021, further repercussions are possible in 2022 depending on how the pandemic develops.

Additionally, during the second half of 2021 and as a consequence of economic incentives initiated by many countries worldwide to stimulate a prompt recovery, raw material markets showed exceptionally high increases in prices. This indirect effect of the COVID19 pandemic is already clearly having impact on many F4E contracts and its effect on the cost at completion is presently under estimation.

In any event, the COVID19 impact is serious but not substantial, and the result on the 2021 financial statements is not material.

e) 2021 Accounts

The 2021 financial statements of F4E and its reports on budget implementation for 2021 have been prepared in conformity with:

- The Council Decision establishing F4E,
- The Financial Regulation (FR) applicable to the general budget of the European Union⁴,
- The F4E FR⁵,
- The « Inventory directive » (EC n° 643/2005),
- The European Commission's consolidation manual for the 2021 closure.

The accounts have also been drawn up in accordance with the accounting rules adopted by the Accounting Officer of the European Commission (EC). As an EU body, F4E is fully consolidated in the EU accounts. Articles 80.1 and 82.1 of the general FR state that the Accounting Officer of the EC adopts the accounting rules and the harmonised chart of accounts to be applied by all institutions and EU bodies. They are accrual based accounting policies derived from International Public Sector Accounting Standard (IPSAS) or by default, International Financial Reporting Standards (IFRS).

F4E has implemented the ABAC system (Accrual Based Accounting) owned by the EC and used by many EU bodies. The accounting and budgetary information is integrated in one system which has SAP as a back-end for the accounting part. The workflow system in ABAC allows the Authorising Officer to ensure that the “four eyes” principle has been observed for each transaction.

The representation letter related to the accounts 2021 has been transmitted to the President of the European Court of Auditors (ECA) in a separate note. It includes no reservation from the F4E Accounting Officer.

In line with Article 70.6 of the FR applicable to the general budget of the EU, Baker Tilly has been appointed as independent external auditor in order to verify that the 2021 annual accounts properly present the income, expenditure and financial position of F4E.

ECA shall prepare a specific Annual Report in line with the requirement of Article 287 (1) TFEU. When preparing this report, ECA shall consider the audit work performed by the independent external auditor and the action taken in response to the auditor's findings.

The European Parliament is the discharge authority within the EU. This means that, following the audit and finalisation of the annual accounts, it falls under the responsibility of the Council to recommend and then to the European Parliament to give a discharge to F4E.

⁴ Financial Regulation (EC, Euratom) n° 966/2012 of the European Parliament and of the Council of 25 October 2012, last amended on 18/07/2018 (EU, Euratom) n° 2018/1046.

⁵ F4E Financial Regulation adopted by F4E Governing Board on 9-10/12/2019 – F4E(19)-GB45-45.

Section I. 2021 Financial Statements

2. Balance Sheet

As at 31 December 2021

EUR thousands

	Note	2021	2020
CURRENT ASSETS			
Cash and cash equivalents	6.2.1.	5 010	5 535
Receivables	6.2.2.	284 904	234 657
Pre-financing	6.2.3.	37 774	42 980
		327 688	283 173
NON-CURRENT ASSETS			
Pre-financing	6.2.3.	70 356	75 497
Property, plant and equipment	6.2.4.	669	1 084
Intangible assets	6.2.4.	84	141
		71 110	76 722
TOTAL ASSETS		398 798	359 895
CURRENT LIABILITIES			
Accounts payable	6.2.5.	66 739	84 432
Accrued charges and deferred income	6.2.6.	62 830	45 686
Current provisions	6.2.7.	62 872	1 400
		192 441	131 518
NON-CURRENT LIABILITIES			
Non-Current provisions	6.2.7.	183 060	143 609
		183 060	143 609
TOTAL LIABILITIES		375 501	275 126
NET ASSETS		23 297	84 769
NET ASSETS/EQUITY			
Accumulated surplus/deficit		84 769	-16 063
Economic result of the year - Profit (+)/Loss (-)		-61 472	100 832
NET ASSETS	6.2.8.	23 297	84 769

Fig. 1 Balance Sheet

3. Statement of Financial Performance

As at 31 December 2021

EUR thousands

	Note	2021	2020
NON-EXCHANGE REVENUES			
Revenue from Euratom		601 227	632 450
Revenue from other contributors (Member States)		135 083	156 100
Other non exchange revenue		173	195
		736 483	788 745
EXCHANGE REVENUES			
Reserve Fund		6 444	9 278
Other revenues		1 423	5
		7 867	9 283
TOTAL REVENUE	6.3.1.	744 350	798 028
OPERATIONAL EXPENSES			
	6.3.2.		
Expenses with third parties		639 154	631 988
		639 154	631 988
OTHER EXPENSES			
	6.3.3.		
Staff costs		51 608	50 338
Provisions - additions and adjustments		102 323	1 786
Property, plant and equipment related expenses		2 136	2 301
Other expenses		10 601	10 785
		166 668	65 209
TOTAL EXPENSES		805 822	697 196
SURPLUS (+) / DEFICIT (-) OF THE YEAR		-61 472	100 832

Fig. 2 Statement of Financial Performance

4. Cash Flow Statement (indirect method)

As at 31 December 2021

EUR thousands

	2021	2020
Surplus/(deficit) from ordinary activities	-61 472	100 832
Operating activities		
Amortization (intangible fixed assets) +	107	143
Depreciation (tangible fixed assets) +	418	-948
Increase/(decrease) in Provisions for risks and liabilities	100 923	-68 214
Increase/(decrease) in Value reduction for doubtful debts	0	0
(Increase)/decrease in Stock	0	0
(Increase)/decrease in Long term Pre-financing	5 141	-9 021
(Increase)/decrease in Short term Pre-financing	5 207	-9 611
(Increase)/decrease in Long term Receivables	0	0
(Increase)/decrease in Short term Receivables	-50 247	-14 921
Increase/(decrease) in Other Long term liabilities	0	0
Increase/(decrease) in Accounts payable	-549	-4 946
	-472	-6 686
Investing activities		
Increase of tangible and intangible fixed assets (-)	-126	-422
Proceeds from tangible and intangible fixed assets (+)	74	1 471
	-53	1 050
Net increase/(decrease) in cash and cash equivalents	-525	-5 636
Cash and cash equivalents at the beginning of the period	5 535	11 171
Cash and cash equivalents at the end of the period	5 010	5 535

Fig. 3 Cash Flow Statement

5. Statement of Changes in Net Assets

As at 31 December 2021

EUR thousands

Net assets	Accumulated Surplus (+) / Deficit (-)	Economic result of the year	Net assets (Total)
Balance as of 31 December 2020	-16 063	100 832	84 769
Balance as of 1 January 2021	-16 063	100 832	84 769
Fair value movements	0	0	0
Allocation of the Economic Result of Previous Year	100 832	-100 832	0
Economic result of the year	0	-61 472	-61 472
Balance as of 31 December 2021	84 769	-61 472	23 297

Fig. 4 Statement of Changes in Net Assets

6. Notes to the Financial Statements

6.1. Accounting Principles

The Financial statements provide information about the financial position, performance and cash flow of an entity that is useful to a wide range of users. For a public sector entity such as F4E, the objectives are more specifically to provide information useful for decision-making, and to demonstrate the accountability of the entity for the resources entrusted to it.

The accounts of the Joint Undertaking comprise the general accounts and budget accounts. These are kept in euro on the basis of the calendar year. The budget accounts give a detailed picture of the implementation of the budget. They are based on the modified cash accounting principle. The general accounts allow for the preparation of the financial statements which consist in a statement of financial performance, showing all income and expenditure for the financial year, and a balance sheet designed to establish the financial position of F4E at 31 December.

Article 98 of F4E FR sets out the accounting principles to be applied in drawing up the financial statements.

Use of estimates

In accordance with IPSAS and generally accepted accounting principles, the financial statements include amounts based on estimates and assumptions by management based on the most reliable information available.

Significant estimates include, but are not limited to, amounts for provisions, accounts receivables, accrued income and charges, contingent assets and liabilities, and the degree of impairment of intangible assets and property, plant and equipment. Actual results could differ from those estimates. Changes in estimates are reflected in the period in which they become known.

IPSAS 11 – Construction contracts

Most of the components that make up ITER will be delivered by the ITER parties (including F4E) “in-kind” (providing directly the components rather than contributing only cash).

The EU contribution to IO through F4E is established on the ITER Agreement and Common Understanding on Procurement Allocation and its amendments, and it comprises mainly buildings, magnets, vessels and other engineering components.

On the basis of the Procurement Arrangements (PA), F4E launches procurements and conclude contracts with the industry. The industry delivers usually directly to IO, which also performs the acceptance. IO then informs F4E about the acceptance, i.e. IO recognises the credits to F4E. In order to consider that the PA obligations have been fulfilled by each party, the PA value has to be fully earned, independently of the actual cost incurred for executing the scope of work of each PA.

For each PA key milestone an ITER credit is associated and this is released to the specific Party whenever the milestone has been achieved and the related documentation verified by IO. Therefore the progress in the execution of the work and in discharging the EU from its obligation toward the ITER Agreement is recognized by means of credit earned by F4E depending on the achievement of project milestones laid down in each PA.

As there is no specific EC accounting rule covering those operations, F4E refers to IPSAS rule n° 11 “Construction contracts”.

The ITER Agreement and Common Understanding on Procurement Allocation and its amendments together with the F4E Statutes can be considered as a binding arrangement and therefore as a construction contract according to IPSAS 11.

From an IPSAS 11 perspective, F4E can be considered as contractor and the agreement with Euratom as a construction contract.

Based on the accounting guidance applicable to the type of transactions managed by F4E, the cost of the items, acquired or constructed, incurred with the purpose of the final manufacture of the research components that F4E agreed to deliver **should be expensed when incurred**.

The recognition as an expense is the approach that better capture the nature of the transaction given that :

- in most of the cases the suppliers hold the economic ownership (i.e., is not presently controlled by F4E);
- F4E does not foresee using the assets for other purpose, or
- F4E agrees/foresees to provide the legal ownership to the subcontractors for no consideration after delivery.

It is to be noted that the use of IPSAS rule n° 11 (Construction contracts) is extended to the accounting of all operational contributions within the ITER and BA agreements.

6.2. Notes to the Balance Sheet

6.2.1. Cash and Cash Equivalents

Description	31.12.2021	31.12.2020
Bank accounts:		
Central treasury (EC)	4 964 662.70	5 489 620.53
Current accounts	0.00	625.00
Imprest accounts/Cash in hand	45 537.20	45 000.00
Short-term deposits	0.00	0.00
TOTAL	5 010 199.90	5 535 245.53

Fig. 5 Central treasury and Cash Equivalents

In view to increase the efficiency, F4E has externalised its treasury to the EC in May 2019. The cash position at the end of 2021 is composed of one account with the EC and three imprest accounts (petty cash).

No bank interests have been generated in 2021.

6.2.2. Current Receivables

All receivables are carried out at the original amount less write-down for impairment when there is objective evidence that F4E will not be able to collect all amounts due according to the original payment terms.

Current receivables: EUR 14 593 093.11 referring mainly to the recoverable VAT from France.

Sundry receivables: EUR 32 777.84 composed mainly of advances to staff (salaries and missions) and amounts due by other EU bodies.

Deferrals and accruals: EUR 259 058 391.79 corresponding to the deferred charges related to the 2022 cash contribution to IO (EUR 256.6 million) and deferred charges for insurance premiums paid in advance (EUR 2.5 million).

Accrued income: EUR 11 219 668.24 corresponding to the accrued revenue from the ITER Reserve fund.

6.2.3. Pre-Financing

Pre-financing is a payment intended to provide the beneficiary with a cash advance, i.e. a float. It may be split into a number of payments over a period defined in the specific pre-financing agreement. The float or advance is repaid or used for the purpose for which it was provided during the period defined in the agreement. If the beneficiary does not incur eligible expenditures, he has the obligation to return the pre-financing to F4E.

The amount of the pre-financing is reduced (wholly or partially) by the acceptance of eligible costs and amounts returned.

At year-end, outstanding pre-financing amounts are valued at the original amount(s) paid less: amounts returned, eligible amounts cleared, estimated eligible amounts not yet cleared at year-end, and value reductions.

Pre-financing without interest for F4E	31.12.2021	31.12.2020
Pre-financing given to third parties (non-current)	70 356 400.38	75 497 219.36
Pre-financing given to third parties (current)	93 569 016.33	87 550 377.00
Accrued charges on Pre-financing given to third parties	-55 795 460.93	-44 569 986.35
TOTAL	108 129 955.78	118 477 610.01

Fig. 6 Pre-Financing

It is estimated that EUR 70.4 million of the pre-financing open at 31/12/2021 will be cleared with eligible amounts after 2022.

These pre-financings are related mainly to the following operational procurement contracts:

Contract Reference	Contractor	Amount
OPE-1003-01_TB13_Emergency electrical power distribution	ANSALDO NUCLEARE	30 392 876.58
OPE-301_TB04_Buildings	AXIMA	24 228 574.29
OPE-0688_TB12_Buildings	DEMATHEU BARD CONSTRUCTION	19 165 355.60
OMF-444-03-02_Fabrication ITER divertor cassette bodies	WALTER TOSTO	7 598 979.03
OPE-046 Supply of 2 Ion source and extraction power supplies	ENERGY TECHNOLOGY	2 015 167.68
OMF-0847-01-01_Preliminary design of the core plasma Thomson scattering	IDOM INGENIERIA	1 767 969.30
OMF-0795-01-01 Supply of the beam components	AVS ADDED VALUE IND. ENG.	1 727 222.67
OPE-285_TB02_Tokamak cargo lift and crane	NKM NOELL SPECIAL CRANES	1 693 621.20
OPE-0982-01_Supply primary vacuum and cryostat leak detection systems	IDOM INGENIERIA	1 088 910.97

Fig. 7 Main Operational Pre-Financings

6.2.4. Fixed Assets

An asset shall be recognised only if it is probable that the expected future economic benefits or service potential that are attributable to that asset will flow to F4E and the cost or fair value of the asset can be measured reliably. Service potential would refer to assets that are used to achieve an objective but which do not directly generate net cash inflows. In the context of F4E this comprises all assets that are used by F4E to fulfil its objectives.

F4E books as fixed assets only items with a purchase price above EUR 5 000.00. Items with a lower value, such as monitors, digital cameras, etc., are treated as expenses of the year but are however registered in the physical inventory. All assets are stated at cost less accumulated depreciation and impairment losses.

F4E has introduced the module ABAC Assets in 2008. ABAC Assets has been developed to meet the requirements of the EC “Inventory Directive” (EC n° 643/2005) and its content is replicated in SAP Assets Accounting module.

All fixed assets are depreciated monthly, with zero residual value, over a variable useful lifetime:

Asset type	Annual depreciation rate
Intangible fixed assets	25%
Tangible fixed assets	
Buildings	4%
Plant and equipment	12.5%, 25%
Furniture and vehicles	
Office furniture	10%
Transport, electrical office, printing and mailing equipment	25%
Kitchen, Printshop and postroom equipment	12.5%
Computer hardware	25%
Other fixtures and fittings	
Audiovisual and Telecommunications equipment	25%
Computer, scientific and general books, documentation	25%, 33%
Health, safety, protective, security and medical equipment,	12.5%
Other	10%
Tangible fixed assets under construction	0%

Fig. 8 Depreciation Rate

Intangible fixed assets:

An intangible asset is an identifiable non-monetary asset without physical substance.

Regarding the internally developed intangible assets (e.g. software), the requirements of the accounting rule n°6 from 1/1/2010 onwards are:

- costs directly linked to an internally developed intangible asset, providing they meet the necessary criteria, must be capitalised as asset under construction. Once the project goes live, the resulting asset will be amortised over its useful life,
- the amount of research expenses incurred on IT projects and development costs not capitalised (e.g. for small projects below threshold, see note 6.3.3. below) must be disclosed in the financial statements.

As of 31/12/2021, all projects identified were below the threshold of EUR 500 000.00 used by F4E for the capitalisation of internally generated intangible assets.

Tangible fixed assets:

A tangible asset is an identifiable non-monetary asset with physical substance.

The following table Fig.9 provides the variation of the fixed assets in 2021 :

ASSETS		Intangible fixed assets			Tangible fixed assets							Fixed assets
2021		Intangible fixed assets internally generated	Computer Software	Total Intangible fixed assets	Buildings	Plant and Equipment	Computer hardware	Furniture and vehicles	Other Fixtures and Fittings	Tangible Fixed Assets under Construction	Total Tangible fixed assets	Total fixed assets
Gross carrying amounts 01.01.2021	+	0.00	2 877 072.77	2 877 072.77	0.00	765 624.39	4 357 506.68	780 204.20	791 046.22	0.00	6 694 381.49	9 571 454.26
Additions	+		49 724.95	49 724.95			17 251.54	13 048.60	46 298.40		76 598.54	126 323.49
Disposals	-			0.00			-29 791.39	-43 125.32	-594.00		-73 510.71	-73 510.71
Transfer between headings	+/-			0.00							0.00	0.00
Other changes :	+/-			0.00							0.00	0.00
Gross carrying amounts 31.12.2021		0.00	2 926 797.72	2 926 797.72	0.00	765 624.39	4 344 966.83	750 127.48	836 750.62	0.00	6 697 469.32	9 624 267.04
Accumulated amortization and impairment 01.01.2021	-	0.00	-2 735 873.77	-2 735 873.77	0.00	-445 484.39	-3 801 733.68	-713 857.20	-649 511.22	0.00	-5 610 586.49	-8 346 460.26
Depreciation	-		-106 576.95	-106 576.95		-139 461.00	-263 818.54	-33 814.60	-52 885.40		-489 979.54	-596 556.49
Write-back of depreciation	+			0.00							0.00	0.00
Disposals	+			0.00			29 791.39	41 900.32	594.00		72 285.71	72 285.71
Impairment	-			0.00							0.00	0.00
Write-back of impairment	+			0.00							0.00	0.00
Transfer between headings	+/-			0.00							0.00	0.00
Other changes :	+/-			0.00							0.00	0.00
Accumulated amortization and impairment 31.12.2021		0.00	-2 842 450.72	-2 842 450.72	0.00	-584 945.39	-4 035 760.83	-705 771.48	-701 802.62	0.00	-6 028 280.32	-8 870 731.04
Net carrying amounts 31.12.2021		0.00	84 347.00	84 347.00	0.00	180 679.00	309 206.00	44 356.00	134 948.00	0.00	669 189.00	753 536.00
Accounts			210000		221000	230000	241000	240000	242000	244000	200000	

Fig. 9 Intangible and Tangible Fixed Assets

6.2.5. Accounts Payable

Current and sundry payables are **EUR 60 364 519.03** and are composed of the balance of the 2022 cash contribution to IO (EUR 60.3 million) and suppliers' invoices received but not paid at year end and reimbursements to staff.

Pre-financing received from Euratom totalled **EUR 6 374 572.42** refers to the balance of the budget outturn account 2021, to be reimbursed to the EC in 2022 (Cf. point 7.7. Budget outturn account).

6.2.6. Accrued Charges and Deferred Income

In accordance with EU Accounting Rule n° 3, accruals are made to recognize the amounts to be paid for goods or services that have been received or supplied but have not been paid, invoiced or formally agreed with the supplier, including amounts due to employees. The accruals are based on project analysis performed by the Authorizing Officer and cross-checked with the amounts actually invoiced at the time of finalization of the accounts.

The amount of **EUR 62 829 810.95** which represents mainly invoices to be received in 2022 for services rendered in 2021, includes:

- EUR 56 241 991.52 for services rendered in 2021 on operational activities and not invoiced at 31/12/2021,
- EUR 4 835 562.43 for services rendered in 2021 on administrative expenditures and not invoiced at 31/12/2021,
- EUR 1 752 257.00 for F4E staff's untaken leave as at the end of December 2021. In conformity with EC Accounting Rule n° 12, an entity shall recognize the cost of holidays carried over to the following years during the year the services were rendered by the staff members.

6.2.7. Provisions

Provisions are recognised when F4E has a legal or constructive obligation towards third parties as a result of past events, for which it is more likely than not that an outflow of resources will be required to settle the obligation, and when the amount can be reliably estimated. Provisions are not recognised for future operating losses. The amount of the provision is the best estimate of the expenditures expected to be required to settle the present obligation at the reporting date. The EU Accounting rule n°10 (Provision, contingent assets and liabilities) is applicable.

Description	Amounts at 31.12.2020	Amounts used (Payment in 2021)	Transfer to current (Payment in 2022)	Addition and value adjustments	Amounts at 31.12.2021
Decommissioning fund (2001)	134 934 902.09	0.00	0.00	38 929 750.78	173 864 652.87
Other provisions	10 073 286.57	-1 399 515.87	0.00	63 393 206.01	72 066 976.71
Total	145 008 188.66	-1 399 515.87	0.00	102 322 956.78	245 931 629.57

Fig. 10 Non-current and current Provision

Non-current provision for the decommissioning fund :

When the construction of an asset requires removal after the end of its useful life and restoration of the site, then a present obligation arises at the time of its construction.

F4E shall contribute jointly through the Budget of the IO to the accumulation of the Decommissioning Fund from the date of First Plasma through the Operation Phase. This will be done by making regular payments through the IO budget.

Based on the Overall Project Cost approved by the ITER Council⁶, the Decommissioning cost is estimated to EUR 530.0 million in 2001 value (not including the Deactivation cost). The EU share of the estimated costs for Decommissioning is EUR 180.2 million (34 % of EUR 530.0 million).

Based on :

- the percentage of completion as of 31.12.2021 (58.3 % according to the F4E Monthly Dashboard), this results in an applicable cost base of EUR 105.11 million in 2001 value (58.3 % of EUR 180.2 million),
- the assumption that the cost contributions will be done in equal annual instalments of EUR 15.0 million in 2001 value (180.2 divided by 12 years) during the Operation Phase 2026 to 2037,
- the assumption that the contributions relating to the applicable cost of EUR 105.11 million will be paid into the fund in the years 2026 to 2031 (7 times EUR 15.0 million),
- EU HICP annual inflation rate from 2001 to 2021,
- an annual inflation rate of 1.8 % provided by Eurostat to reflect future prices,
- the contributions in future prices are not discounted due to negative interest rates,

the resulting provision is recognised at the reporting period for an amount of **EUR 173 864 652.87** (in 2021 value).

Other provision - Additional financial contribution to Japan :

Regarding the arrangements signed between F4E, the JAEA and IO, the transfer of procurement responsibilities from Europe to Japan is implemented through annual cash contributions.

In addition to the original agreements, in January 2014, Euratom and the Japanese Ministry of Science and Technology reached an agreement for settling the transfer of procurement responsibilities, following the request by Japan for an additional financial contribution of EUR 75.0 million (2014 value).

In line with the specific agreement signed in 2020, the provision has been consumed by EUR 70.0 million in 2020. An amount of EUR 1.4 million has been paid in 2021 and the balance will be executed in 2025.

Therefore, in compliance with the accounting rules, the provision has been adjusted based on :

- EU HICP annual inflation rate from 2014 to 2021,
- an annual inflation rate of 1.8 % provided by Eurostat to reflect future prices,
- the contributions in future prices are not discounted due to negative interest rates.

⁶ Updated Overall Project Cost (OPC) – ITER_D_26B8X9 v1.1 presented to IC-25

Other provision – Amendment to TB04 Contract

The TB04 contract covers for the most part the design and supply of the equipment for electrical and HVAC services in the ITER Tokamak Building. Installation of this equipment is under IO's responsibility.

F4E is currently negotiating a commercial agreement with the Omega consortium recording the full and final settlement of some claims and other open disputes. The amount booked as provision is based on an assessment done by F4E with the assistance of external experts.

Other provision - Employer's contribution to the EU pension scheme

In accordance with Article 83a (2) of the Staff regulation, as from January 2016, JUs which are only partly financed from the EU budget should pay the part of the employer's contributions to the EU pension scheme, corresponding to the ratio of their non-EU subsidised revenues to their total revenues. F4E has never been formally requested the payments and therefore has not yet paid such contributions. The method for calculation of the contribution is under discussion with the Commission services.

The total provision for the sum of the three cases (additional contribution to Japan, TB04 contract and the contribution to the EU pension scheme), related to financial year 2021 and previous years, amounts to EUR 72.1 million at the time of issuing the Final accounts.

6.2.8. Net Assets

F4E net assets are decreased by the negative financial performance of the year (EUR 61.5 million) totalling **EUR 23 297 090.68** as of 31 December 2021.

The resources of F4E consist of contributions from Euratom and from the ITER Host State, annual membership, voluntary contributions from the Members other than Euratom and additional resources.

It is to be noted that according to F4E FR, if the balance of the outturn account is positive, it shall be repaid to the EC up to the amount of the Euratom contribution paid during the financial year (see point 7.7. Budget outturn account).

6.3. Notes to the Statement of Financial Performance

6.3.1. Revenue

F4E's revenues consist mainly of contributions granted by Euratom as a participation in the financing of F4E, the ITER Host State, annual membership contributions from other members than Euratom, the ITER Reserve Fund, recoveries of expenses as well as revenue from liquidated damages.

A distinction is made in the Statement of financial performance between :

- revenue from **non-exchange transactions** (mainly from contributors) : the related receivables and revenue are recognized when the recovery orders are issued by F4E (in line with the payment needs and within the Budget approved by F4E's GB). At the end of each financial year, the surplus assessed for budget purposes on a modified cash basis is returned to Euratom (see point 7.7. Budget outturn account). The EU Accounting rule 17 – Revenue from non-exchange transactions is applicable.
- revenue from **exchange transactions** (mainly from the ITER Reserve Fund) : the revenue recognition criteria applied are those described in the EU Accounting rule n° 4.

It is to be noted that since 2021, the revenue from ITER Reserve Fund is recognised subject to the:

- authorisation for financing from the Reserve Fund, implemented through the decisions of the Executive Project Board;
- approval of the related contractual amendment, given by the IO-DG;
- implementation of the related actions by F4E's suppliers (allowing to match the cost with the revenue from ITER).

The operating revenues, **EUR 744 350 258.95** (EUR 798 028 009.01 in 2020), include mainly the 2021:

- Euratom contribution: EUR 601 227 295.71
- ITER Host State contribution: EUR 129 100 000.00
- Membership contributions: EUR 5 983 100.00
- Revenue from ITER: EUR 6 443 841.75

6.3.2. Operational Expenses – EUR 639 153 906.14 (EUR 631 987 784.64 in 2020)

The types of expenses that F4E reports include exchange expenses (where F4E receives goods or services in return) and non-exchange expenses (where F4E transfers value to another entity without receiving anything in exchange).

In line with IPSAS rule n° 11, the construction contracts for which no inflow of service potential will arise to F4E are accounted as expense (operational items that are being built by F4E's contractors and directly handed over to IO after acceptance by the latter – including tooling and work in progress).

The operational expenses include mainly the following items:

Contract Reference	Contractor	2021 Expenses
2021 Cash contribution for ITER IO	ITER IO	218 905 945.45
OPE-301_TB04_Buildings	AXIMA/IO	42 810 606.11
OPE-0688_TB12_Buildings	DEMATHEU BARD CONST.	31 112 056.16
OPE-058_Civil engineering	ENGAGE	25 347 297.06
OPE-068_Supply VV Sectors	ANSALDO NUCLEARE	18 660 004.58
OPE-0414 Cold test of 10 winding packs	SIMIC	18 607 343.77
OPE-636_TB16_Site infrastructure works	SPIE BATIGNOLLES	17 001 778.00
OPE-0996-01_TB18_Completion of the civil works for B14 Tritium building	VINCI CONSTRUCTION	16 443 199.43
OFC-755_Finishing and retrofit works for buildings	DALKIA FRANCE	15 029 579.33
OPE-286_TB03_Building	ENGAGE/VINCI CONST	14 123 496.38
Cash contribution to QST for PA 3.2.P4JA.01	NATIONAL INSTITUTES FOR QUANTUM	12 488 226.10
OPE-0969_Magnet supply contract	ASG SUPERCONDUCTORS	9 494 919.77
OPE-570_PF Coils manufacturing and cold test	CNIM	9 010 409.34
OPE-1003-01_TB13 Emergency electrical power distribution	ANSALDO NUCLEARE	6 855 316.98
OMF-605-01-02_Supply of beam source for MITICA	ALSYOM	6 604 529.49
OPE-090_Civil engineering & construction consultancy	ALTRAN TECHNOLOGIES	6 457 592.33
OMF-444-03-01/02_ITER Divertor cassette bodies	WALTER TOSTO	6 009 353.57
OPE-906 Painting and coating works for Buildings	GDES	5 560 800.62
OPE-0966 Manufacture of the torus and cryostat cryopumping system	RESEARCH INSTRUMENTS	5 255 017.67
OPE-428_TB06_EPD_Buildings	FERROVIAL AGROMAN	4 956 477.07
OPE-053_Toroidal Field coils winding packs	IBERDROLA	4 651 376.51
OPE-0376_Installation Test LN2 plant and auxiliary systems	AIR LIQUIDE ENGINEERING	4 431 720.09
OFC-433-04_Design of diagnostics ports and in-vessel feedouts	IDOM	4 274 284.41
OPE-454_HV Power suppl. electron cyclotron heating/current drive system	AMPEGON POWER	3 609 981.37
OPE-0982-01 Supply primary vacuum and cryostat leak detection systems	IDOM	2 621 081.14
OPE-0568_PF Coil site, Infrastructure and facilities management	DALKIA FRANCE	2 145 409.64
OPE-278-01 Supply of acceleration grids power supply conversion system	NIDEC ASI	1 897 539.38
OPE-0654_Supply impreg syst. & add. toolings	ELYTT ENERGY	1 844 367.29

Fig. 11 Main Operational Expenses

6.3.3. Other Expenses – EUR 166 668 076.24 (EUR 65 208 712.17 in 2020)

- Staff expenses: EUR 51 607 812.85** (EUR 50 337 727.59 in 2020)
 This includes the total gross salaries (including allowances, social contributions, taxes and pension contributions), employer's contribution for social security, allowances for seconded national experts and other staff related costs. The above social contributions and taxes are transferred to and managed by the EU Paymaster Office (PMO).
- Provision for liabilities: EUR 102 322 956.79** refers to the yearly addition and value adjustment of the provisions described here above under point 6.2.7.
- Property, plant and equipment related expenses: EUR 2 136 296.40** refers to the yearly depreciation of fixed assets and the cost for building rent, maintenance and security.

- Other administrative expenses: the amount of **EUR 10 601 010.20** includes mainly the following items:

	2021	2020	Variation
IT costs – operational/support	2 729 134.44	3 820 523.69	-1 091 389.25
IT costs - development	707 262.83	888 895.66	-181 632.83
Office supplies & maintenance	2 058 818.47	1 617 108.14	441 710.33
Legal expenses	1 171 287.86	11 709.94	1 159 577.92
Training	721 709.02	519 674.60	202 034.42
Interim staff	544 344.27	638 537.66	-94 193.39
Communications & publications	522 918.03	630 018.68	-107 100.65
Service level agreement with EU Paymaster Office	338 072.59	385 394.17	-47 321.58
Experts and related expenditure	293 200.03	242 749.82	50 450.21
Missions	252 233.77	1 081 263.21	-829 029.44
Recruitment	50 983.95	32 673.20	18 310.75
Car and transport expenses	23 862.86	24 680.72	-817.86
Interest expense on late payment	10 544.90	4 755.77	5 789.13
TOTAL	9 424 373.02	9 897 985.26	-473 612.24

Fig. 12 Other Administrative Expenses

6.4. Off Balance Sheet Items and Notes

6.4.1. Contingent Assets

A contingent asset is a possible asset that arises from past events and the existence of which will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of F4E. A contingent asset is disclosed when an inflow of economic benefits or service potential is probable.

Contingent assets are assessed at each balance sheet date to ensure that developments are appropriately reflected in the financial statements. If it has become virtually certain that an inflow of economic benefits or service potential will arise and the asset's value can be measured reliably, the asset and the related revenue are recognised in the financial statements of the period in which the change occurs.

Guarantees

Guarantees are possible assets (or obligations) that arise from past events and whose existence will be confirmed by the occurrence or non-occurrence of the object of the guarantee. Guarantees can thus qualify as contingent assets (or liabilities). A guarantee is settled when the object of the guarantee no longer exists. It is crystallised when the conditions are fulfilled for calling a payment from the guarantor.

Description	31.12.2021	31.12.2020
Guarantees for pre-financing (nominal-on going)	167 900 528.39	163 565 947.70
Performance guarantees	173 301 490.76	204 287 575.36
Total - Guarantees received	341 202 019.15	367 853 523.06

Fig. 13 Guarantees

Guarantees received in respect of pre-financing:

These are guarantees that F4E in certain cases requests from beneficiaries when paying out advance payments (pre-financing). There are two values to disclose for this type of guarantee, the “nominal” and the “on-going” values. For the “nominal” value, the generating event is linked to the existence of the guarantee. For the “on-going” value, the guarantee’s generating event is the pre-financing payment and/or subsequent clearings.

Performance guarantees are sometimes requested to ensure that beneficiaries of F4E funding meet the obligations of their contracts with F4E.

ITER Reserve Fund

The terms of reference of the ITER Reserve Fund were approved in 2015 in order to compensate the Domestic Agencies for cost increases incurred due to changes which are requested by the IO and have cost impacts.

At the request of F4E, the Executive Project Board approved on 19th January 2022 to increase the ceiling of PCR-662 (from 3.70 MEUR to 10.11 MEUR) and of PCR-698 (from 36.00 MEUR to 57.31 MEUR).

EUR 24.72 million of this increase amounting in total to EUR 27.72 million refers to variations already implemented by F4E’s suppliers and shall be recognised as revenue once the corresponding variations are formally approved.

6.4.2. Contingent Liabilities and Significant Legal Commitment

A contingent liability is:

- A possible obligation that arises from past events and of which the existence will be confirmed only by the occurrence or non-occurrence of one or more uncertain future events not wholly within the control of F4E; or
- A present obligation that arises from past events but is not recognised because:
 - It is not probable that an outflow of resources embodying economic benefits or service potential will be required to settle the obligation; or
 - The amount of the obligation cannot be measured with sufficient reliability

The information provided under this note refers to the F4E open obligations under the ITER and BA activities. Those future obligations are considered as net deficits from future operating activities and reported as significant legal commitment.

ITER is being constructed at Cadarache in the South of France. Europe supports 45.46% of the construction cost and 34% of the cost of operation, deactivation and decommissioning of the facility as well as preparing the site.

Most of the components that make up the ITER facility are to be manufactured by each of the ITER Parties and contributed in-kind to ITER through Domestic Agencies. F4E will provide components to ITER on behalf of the EU.

In addition to the in-kind procurements F4E has also an obligation to finance the transportation of the non-EU components from the entry site in France (i.e. either Fos-sur-Mer or the Marignane airport) to Cadarache. Additionally, as far as the Test Blanket System is concerned, in 2014 F4E has signed two TBM Arrangements for the delivery of two systems to the ITER site.

The contractual commitments for which budgetary commitments have not yet been placed refers to the outstanding activities which have not yet been awarded as procurement contracts to European industry.

F4E maintains an estimate of the cost of completing its obligations to ITER. This comprises the costs already committed, and the estimate of the future commitments. This is managed in EcoSys and an extract is presented to each of the biannual GB meetings.

The table below shows an update of these figures with a cut-off date of December 2021, and expressed in EUR 2008 (used as basis to ensure a comprehensive financial monitoring).

Cost Estimate at 31/12/21 (MEUR-2008 value)	Actual Commitment (1)	Estimate to Complete (2)	Estimate at Completion (3)=(1)+(2)
Construction Phase	7 211.92	4 496.69	11 708.61
Operation Phase until 2035	0.00	1 638.20	1 638.20
Post-2035	0.00	221.04	221.04
TOTAL	7 211.92	6 355.94	13 567.86

Fig. 14 Cost Estimate in Commitment (in 2008 value)

The F4E Estimate at Completion (EaC) comprises two major elements – (a) the costs incurred directly by F4E and (b) the cash contributions representing the EU share of the IO costs. EaC covers the costs of the full Construction Phase and the costs of the Operations Phase and the Decommissioning Phase that will be incurred in the same timeframe. The only costs expected after 2035 are the final parts of the cash contributions towards the Operations Phase and Decommissioning Phases and the full costs of the Deactivation Phase.

The following key assumptions have been made in the compilation of the EaC :

- The number of requirement changes will be minimized according to the new policy of IO and if there are any changes, they will be funded via the Reserve Fund.

The positive effect of this policy has been noted by F4E with the number of changes reducing. However, it is recognised that despite strong management pressure at IO and F4E it is impossible to reduce the rate to zero.

- The nuclear safety requirements: F4E is working with IO to ensure that the designs being developed respect the various nuclear safety requirements. Nevertheless, the French nuclear safety authority [ASN] has the ultimate authority and interacts only with IO, and any future changes required could have a high cost impact.
- There are no increases to the required cash contributions to IO.
- For the Hot Cell Complex, F4E is unable to prepare a credible cost estimate until the design requirements from IO reach a level of maturity. The final requirements and scope of the Hot Cell Complex, as well as the sharing of the related increased cost, will be decided at the ITER Council level where EU interests are represented by EURATOM.
- The current ITER baseline leading to First Plasma in December 2025, and the start of the Deuterium-Tritium phase in December 2035 is maintained. This assumption will be updated when the ITER revised baseline integrating the updated schedule to First Plasma and beyond, and the updated Overall Project Cost, will have been proposed by IO and approved by the ITER Council at the end of 2022.

Regarding the structure, the EaC is calculated as the sum of the EaC Base and the Risk Exposure over all activities. The EaC Base is the most likely commitment estimate for a given activity, plus the cost of planned risk mitigation activities. The Risk Exposure is the estimated impact value of the risk(s), multiplied by the probability of the risk(s) associated to a given activity.

Indicatively, the estimate to complete in commitments amounts to EUR 8 526.58 million in 2021 value.

Cost Estimate at 31/12/21 (MEUR-2021 value)	Actual Commitment (1)	Estimate to Complete (2)	Estimate at Completion (3)=(1)+(2)
Construction Phase	9 791.86	6 121.45	15 913.31
Operation Phase until 2035	0.00	2 119.19	2 119.19
Post-2035	0.00	285.94	285.94
TOTAL	9 791.86	8 526.58	18 318.44

Fig. 15 Cost Estimate in Commitment (in 2021 value)

In payments, the estimate to complete amounts to EUR 10 027.52 million in 2021 value.

Cost Estimate at 31/12/21 (MEUR-2021 value)	Actual Payment (1)	Estimate to be Paid (2)	Estimate at Completion (3)=(1)+(2)
Construction Phase	8 290.92	7 622.39	15 913.31
Operation Phase until 2035	0.00	2 119.19	2 119.19
Post-2035	0.00	285.94	285.94
TOTAL	8 290.92	10 027.52	18 318.44

Fig. 16 Cost Estimate in Payment (in 2021 value)

More details on the actual advancement of the works achieved at the end of the year are available in the F4E Annual report 2021.

6.4.3. Other Significant Disclosures

Under the Host agreement with Spain, the office building used by F4E is free of charge. For the year 2021, this service in-kind amounts to EUR 3 251 128.61.

6.5. Financial Instruments

Financial instruments comprise cash, current receivables and recoverables, current payables, amounts due to and from consolidated entities. Financial instruments give rise to liquidity, credit, interest rate and foreign currency risks. Information about which and how they are managed is set out below. Pre-financings and deferrals are not included.

The carrying amounts of financial instruments are as follows:

Financial assets	2021	2020
Receivables with Member States	14 584 938.64	10 776 787.04
All receivables with third parties including accruals (excluding deferrals)	11 260 600.55	10 103 200.89
Cash and deposits	5 010 199.90	5 535 245.53
TOTAL	30 855 739.09	26 415 233.46
Financial liabilities	2021	2020
Current payables	60 364 519.03	83 248 909.98
Other payables	0.00	39 166.24
Accounts payable with EU entities	6 374 572.42	1 143 821.85
TOTAL	66 739 091.45	84 431 898.07

Fig. 17 Financial Instruments

6.5.1. Liquidity Risk

Liquidity risk is the risk that arises from selling an asset; for example, the risk that a given security or asset cannot be traded quickly enough in the market to prevent a loss or meet an obligation. Liquidity risk arises from the ongoing financial obligations, including the settlement of payables.

Details of contractual maturities for assets and liabilities form an important source of information for the management of liquidity risk.

Bank accounts opened in the name of F4E may not be overdrawn. Treasury and payment operations are highly automated and rely on modern information systems. Specific procedures are applied to guarantee system security and to ensure segregation of duties in line with the FR, the internal control standards, and audit principles. EU budget principles ensure that overall cash resources for a given year are always sufficient for the execution of all payments.

F4E's liabilities have remaining contractual maturities as summarised below:

31 December 2021	< 1 year	1 - 5 years	> 5 years	Total
Payables with third parties	60 364 519.03	0.00	0.00	60 364 519.03
Payables with consolidated entities	6 374 572.42	0.00	0.00	6 374 572.42
Total liabilities	66 739 091.45	0.00	0.00	66 739 091.45

Fig. 18 Liquidity Risk – Payables

6.5.2. Credit Risk

Credit risk is the risk of loss due to a debtor's/borrower's non-payment of a loan or other line of credit (either the principal or interest or both) or other failure to meet a contractual obligation. The default events include a delay in repayments, restructuring of borrower repayments and bankruptcy.

Treasury resources are kept with the EC since May 2019. F4E recovers contributions from Euratom and the ITER Host State in average 3 times per year to ensure appropriate cash management, taking into account payment time limits for the recovery of contributions and the total of payments executed in 2021. Requests to the EC and ITER Host State are accompanied by cash forecasts.

Following the externalisation of the treasury to the EC the counterparty risk to which F4E is exposed is minimized.

The table below shows the maximum exposure to credit risk by F4E.

Credit quality/rating	Amount of receivables with Member States
Prime and high grade	14 584 938.64
Upper medium grade	0.00
Lower medium grade	0.00
Non-investment grade	0.00

Fig. 19 Credit Risk – Receivables

6.5.3. Market Risk

Market Risk can be split into interest rate risk and currency risk.

Interest rate risk arises from cash. F4E treasury has been externalised to the EC and consequently it is not exposed to interest rate risk. F4E's treasury does not borrow any money.

The vast majority of transactions are executed in EUR. It is recognised that exchange rates fluctuate and F4E accepts the risk and does not consider it to be material.

6.6. Related Party Disclosure

The related parties of F4E are the key management personnel. Transactions between F4E and the key management personnel take place as part of the normal operations and as this is the case, no specific disclosure requirements are necessary for these transactions in accordance with the EU Accounting rules.

Highest grade description	Grade	Number of persons of this grade
Director	AD15	1

Fig. 20 Related Party Disclosure

The transactions of F4E with key management personnel during financial year 2021 consist only of the payment of their remuneration, allowances and other entitlements in accordance with the EU Staff Regulations.

6.7. Events After the Reporting Date

In accordance with EU accounting rule 19, Events after Reporting Date, the war in Ukraine, that began in February 2022 is a non-adjusting event, thus not requiring any adjustments to the figures reported in these financial statements at 31 December 2021. For subsequent reporting periods, the war may affect the recognition and measurement of some assets and liabilities on the balance sheet and also of some revenue and expenses recognised in the statement of financial performance. Based on the facts and circumstances at the time of preparation of these financial statements, in particular the evolving situation, the financial effect of the war in Ukraine cannot be reliably estimated.

Section II. Budget Implementation 2021

7. Budget Implementation

7.1. Main Facts on the Implementation of the 2021 Budget of F4E

Commitments	99.7% of implementation of the final available budget
	Final Budget: 1 069.88 Execution: 1 066.23 EUR million
	101.7% compared to the original budget
	Original Budget: 1 048.77 Execution: 1 066.23 EUR million
	88.4% in individual commitments
	Execution: 1 066.23 Ind. Commit.: 942.50 EUR million
Payments	97.4% of implementation of the final available budget
	Final Budget: 764.83 Execution: 745.25 EUR million
	100.3% compared to the original budget
	Original Budget: 742.81 Execution: 745.25 EUR million

Fig. 21 Budget Implementation 2021

Additional comments on the final execution of the 2021 budget:

- In commitment appropriations, F4E made use of global commitments, amounting to EUR 123.74 million, linked to three procurement procedures not yet concluded at the end of the year;
- In payment appropriations, EUR 7.00 million remained non executed, equivalent to one percent. The amount of VAT paid on contracts and not yet reimbursed by Members Tax Authorities to F4E was EUR 14.58 million at the 31/12/2021. Together with the fund reservation for the payment of January salaries, it created a deficit in treasury preventing 100% execution of the budget.

7.2. Evolution of the Budget

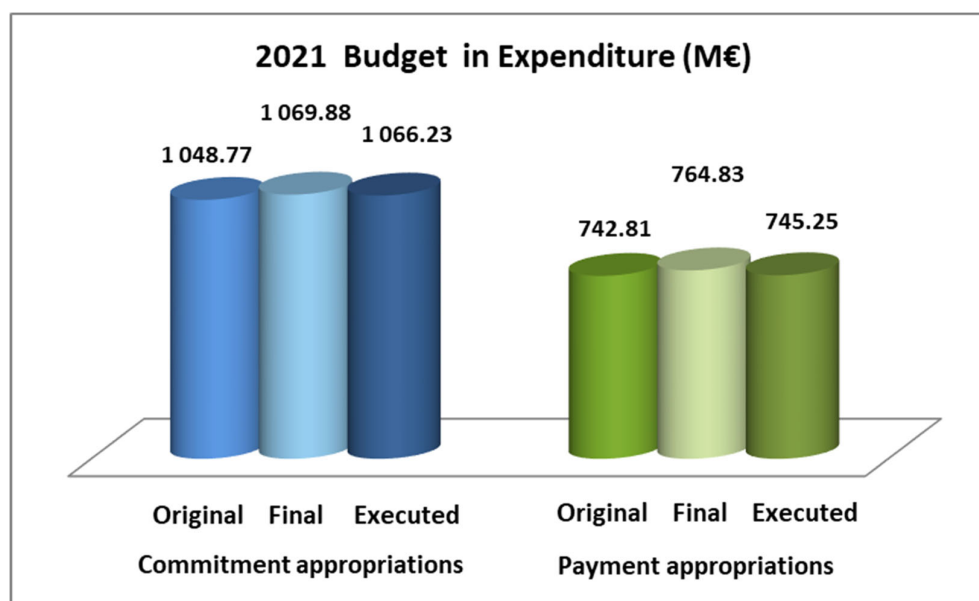


Fig. 22 Budget 2021 in Expenditure

F4E 2021 budget was originally adopted by F4E's Governing Board⁷ (GB) for the amount of EUR 1 048.77 million in commitment appropriations and EUR 742.81 million in payment appropriations.

It was modified in two amendments in the GB meeting of November 2021⁸.

The final available appropriations, including the carry-over from the previous year were EUR 1 069.88 million in commitment appropriations and EUR 764.83 million in payment appropriations.

7.3. Provisional Twelfths Regime

The 2021 Budget was normally adopted by F4E GB on 10th December 2020.

On 1st January 2021, the F4E budget entered into provisional twelfths regime because the amendment to its legal basis, allowing F4E financing for the period (2021-2027), has not been finalised, despite the global political agreement on the new MFF.

The statements of expenditure of the final 2020 budget and of the original 2021 budget served as references for the establishment of the provisional twelfths according to article 18 of the F4E FR. Anticipating the possibility of entering into the provisional twelfths regime, the Director requested in advance the GB the authorisation to open additional twelfths each months, necessary to ensure the payment of the monthly salaries.

⁷ Decision of the F4E GB F4E_D_2HUMRW adopted on 10 December 2020

⁸ Decisions of the F4E GB F4E_D_2JYS7S and F4E_D_2LG7J9 adopted on 05 November 2021

The provisional twelfth regime continued until the 24th February 2021, after the legal basis was published in the OJ⁹. It had no impact on the final implementation of the budget and its execution at end January is as follow:

Heading of the 2021 Budget in Expenditure		Commitments		Payments	
		Amount Available	Execution on 31/01/21	Amount Available	Execution on 31/01/21
A1	STAFF EXPENDITURE				
A10	SALARIES AND ALLOWANCES/ ESTABLISHMENT PLAN	8 974 430.00	8 000 000.00	5 982 953	3 036 523.26
A11	SALARIES AND ALLOWANCES/ EXTERNAL PERSONNEL	2 822 497.00	2 822 000.00	1 881 665	844 290.78
A12	EXPENDITURE RELATING TO STAFF RECRUITMENT	173 227.00	173 030.00	114 166.00	34 038.13
A13	MISSION EXPENSES	56 454.00	56 000.00	37 636.00	0.00
A14	SOCIO-MEDICAL INFRASTRUCTURE	473 291.00	192 800.00	315 527.00	0.00
A15	TRAINING	159 809.00	94 297.00	106 539.00	0.00
A16	EXTERNAL SERVICES	Interims were provisionally charged under budget chapter B36			
A17	RECEPTIONS, EVENTS AND REPRESENTATION	125.00	125.00	83.00	0.00
A18	SOCIAL WEALFARE	23 664.00	5 000.00	15 776.00	0.00
A19	OTHER STAFF RELATED EXPENDITURE	259 316.00	106 000.00	172 877.00	31 148.10
Title 1 - Total		12 942 813.00	11 449 252.00	8 627 222.00	3 946 000.27
A2	INFRASTRUCTURE AND OPERATING EXPENDITURE				
A21	RENTAL OF BUILDINGS AND ASSOCIATED COSTS	356 268.00	335 000.00	237 512.00	42 964.41
A22	INFORMATION, COMMUNICATION TECHNOLOGY AND DATA PROCESSING	902 404.00	470 866.40	601 602.00	0.00
A23	MOVABLE PROPERTY AND ASSOCIATED COSTS	58 550.00	42 000.00	39 033.00	4 025.00
A24	CURRENT ADMINISTRATIVE EXPENDITURE	298 978.00	298 108.80	199 318.00	760.23
A25	POSTAGE / TELECOMMUNICATIONS	112 050.00	112 000.00	74 700.00	0.00
A26	MEETING EXPENSES	36 737.00	36 000.00	24 491.00	0.00
A27	RUNNING COSTS IN CONNECTION WITH OPERATIONAL ACTIVITIES				
A28	INFORMATION AND PUBLISHING	6 355.00	6 000.00	4 236.00	0.00
A29	OTHER INFRASTRUCTURE AND OPERATING EXPENDITURE	63 554.00	36 500.00	42 369.00	0.00
Title 2 - Total		1 834 896.00	1 336 475.20	1 223 261.00	47 749.64
Titles 1 & 2 : Administrative expenditure - Total		14 777 709.00	12 785 727.20	9 850 483.00	3 993 749.91
B3	OPERATIONAL EXPENDITURE				
B31	ITER CONSTRUCTION INCLUDING SITE PREPARATION	172 713 379.00	7 719 585.24	86 633 978.00	38 820.18
B32	TECHNOLOGY FOR ITER AND DEMO	200 033.00	0.00	270 583.00	0.00
B33	TECHNOLOGY FOR BROADER APPROACH	4 867 463.00	1 744 836.00	1 916 666.00	0.00
B34	TECHNOLOGY FOR DONES				
B35	EXTERNAL SUPPORT ACTIVITIES	Externals were provisionally charged under budget chapter B36			
B36	OTHER OPERATIONAL EXPENDITURE	4 484 764.00	2 889 253.80	1 923 510.00	711 053.39
Title 3: Operational expenditure - Total		182 265 639.00	12 353 675.04	90 744 737.00	749 873.57
B4	EARMARKED EXPENDITURE				
B41	ITER CONSTRUCTION - ITER HOST STATE CONTRIBUTION	20 122 712.00	0.00	21 516 666.00	0.00
B42	ACTIVITIES LINKED TO ITER ORGANIZATION	P.M.		P.M.	
B43	OTHER EARMARKED EXPENDITURE	P.M.		P.M.	
Title 4: Earmarked Expenditure - Total		20 122 712.00	0.00	21 516 666.00	0.00
Titles 3 & 4 : Operational expenditure - Total		202 388 351.00	12 353 675.04	112 261 403.00	749 873.57
TOTAL BUDGET		217 166 060.00	25 139 402.24	122 111 886.00	4 743 623.48

Fig. 23 Execution of January Provisional Twelfth

⁹ COUNCIL DECISION (Euratom) 2021/281 of 22 February 2021 amending Decision 2007/198/Euratom establishing the European Joint Undertaking for ITER and the Development of Fusion Energy and conferring advantages upon it, published on 23th February 2021, OJ L 62/41

7.4. Statement of Revenue

7.4.1. Commitment Appropriations

Heading of the 2021 Budget Commitment Revenue	Original Budget (1)	Amending budget 1 (2)	Amending budget 2 (3)	Final Budget (4)=(1)+(2)+(3)	Additional revenue (5)	Final Available Revenue (6)=(4)+(5)	Carry Over From previous year (7)	Final Available Budget (8)=(6)+(7)
110 PARTICIPATION FROM THE EUROPEAN UNION TO OPERATIONAL EXPENDITURE	794 259 197.00		390 000.00	794 649 197.00		794 649 197.00		794 649 197.00
111 RECOVERY FROM PREVIOUS YEARS OPERATIONAL EXPENDITURE	p.m.			0.00		0.00		0.00
120 PARTICIPATION FROM THE EUROPEAN UNION TO ADMINISTRATIVE EXPENDITURE	62 483 826.00			62 483 826.00		62 483 826.00		62 483 826.00
121 RECOVERY FROM PREVIOUS YEARS ADMINISTRATIVE EXPENDITURE	824 174.00	0.13		824 174.13		824 174.13		824 174.13
210 ANNUAL MEMBERSHIP CONTRIBUTIONS	6 500 000.00		-516 900.00	5 983 100.00		5 983 100.00		5 983 100.00
310 ASSIGNED REVENUE ACCRUING FROM THE CONTRIBUTION OF ITER HOST STATE	184 700 000.00			184 700 000.00		184 700 000.00	626 031.77	185 326 031.77
410 MISCELLANEOUS REVENUE <i>Of which revenue of the year</i> <i>Of which revenue from previous year</i>		1 179.15 1 179.15	10 912.00 10 912.00	12 091.15 12 091.15	236 528.22 230 205.75 6 322.47	248 619.37 242 296.90 6 322.47	33 161.55 33 161.55	281 780.92 242 296.90 39 484.02
510 OTHER REVENUE	p.m.			0.00	1 399 515.87	1 399 515.87		1 399 515.87
520 REVENUE FROM ITER ORGANISATION <i>Of which revenue of the year</i> <i>Of which revenue from previous year</i>	p.m. p.m. p.m.			0.00 0.00 0.00	15 107 842.85 15 107 842.85	15 107 842.85 15 107 842.85 0.00	3 825 307.46 3 825 307.46	18 933 150.31 15 107 842.85 3 825 307.46
Total Revenue	1 048 767 197.00	1 179.28	-115 988.00	1 048 652 388.28	16 743 886.94	1 065 396 275.22	4 484 500.78	1 069 880 776.00

Fig. 24 Evolution of Statement of Revenue in Commitment Appropriations

The evolution of statement of revenue in commitment appropriations is made of:

- The revenue added or subtracted in the amendments to the budget represents the evolution of the main contributions (Euratom, France and Members). Each change in revenue is individually detailed and submitted to the GB for adoption.
- The miscellaneous revenue mainly corresponds to reimbursement of undue payments. Defined as internal assigned revenue in F4E FR, these are not net additional revenue but re-collected revenue.
- The other revenue are assigned to the implementation of specific tasks, mainly tasks requested by the IO. Defined as external assigned revenue in the F4E FR, these are net additional revenue for which the GB authorises the principle of collection, as shown with the p.m., 'Pro Memoria', in the original budget.

F4E reports to the GB on the status of miscellaneous and other revenue with each amendment to the annual budget, together with the carry-over from the previous year.

The main changes to the statement of revenue in commitment appropriations according to the table in Fig. 24 are the following:

- **Chapter 110: + EUR 390 000.00** of additional Euratom contribution to F4E operational expenditure, to cover needs of the ITER project;
- **Chapter 121: + EUR 0.13** to align the outturn from previous year according to the F4E Annual Accounts from 2019;
- **Chapter 210: - EUR 516 900.00** corresponding to the deduction of the Swiss contribution due the absence of renewal of the association agreement with EURATOM in the field of controlled nuclear fusion, since December 2020;
- **Chapter 410: + EUR 12 091.15** made of EUR 1 179.15 linked to sale & purchase agreement for Remote Handling target and EUR 10 912.00 linked to liquidated damages;
- **Chapter 410: + EUR 236 528.22** from various recoveries of undue payments, from contract pre-financings and regularisations on administrative expenditure (internal assigned revenue);
- **Chapter 510: + EUR 1 399 515.87** of Contribution from Japan Domestic Agency for the Integration of the Upper Port #10;
- **Chapter 520: + EUR 15 107 842.85** of revenue earmarked to the implementation of project changes requested and financed by the IO. The detailed list of requested tasks is provided in Annex 8.1.

The automatic carry-over of commitment appropriations from the 2020 budget are the following:

- **Chapter 310: + EUR 626 031.77** from the de-commitments done on contracts, due to change of scope or from left over at the closure of the contracts. According to the F4E FR the de-committed amounts on this chapter are immediately available again (external assigned revenue);
- **Chapter 410: + EUR 33 161.55** of carry-over from 2020 from the partial participation of the building owner to F4E refurbishment in Barcelona premises;
- **Chapter 520: + EUR 3 825 307.46** from the carry-over of revenue received from IO but not yet implemented at the end of 2020, and from de-commitments done during 2021.

7.4.2. Payment Appropriations

Heading of the 2021 Budget Payment Revenue	Original Budget (1)	Amending budget 1 (2)	Amending budget 2 (3)	Final Budget (4)=(1)+(2)+(3)	Additional revenue (5)	Final Available Revenue (6)=(4)+(5)	Carry Over From previous year (7)	Final Available Budget (8)=(6)+(7)
110 PARTICIPATION FROM THE EUROPEAN UNION TO OPERATIONAL EXPENDITURE	543 903 868.00		390 000.00	544 293 868.00		544 293 868.00		544 293 868.00
111 RECOVERY FROM PREVIOUS YEARS OPERATIONAL EXPENDITURE	p.m.			0.00		0.00		0.00
120 PARTICIPATION FROM THE EUROPEAN UNION TO ADMINISTRATIVE EXPENDITURE	62 483 826.00			62 483 826.00		62 483 826.00	3 535 437.41	66 019 263.41
121 RECOVERY FROM PREVIOUS YEARS ADMINISTRATIVE EXPENDITURE	824 174.00	0.13		824 174.13		824 174.13		824 174.13
210 ANNUAL MEMBERSHIP CONTRIBUTIONS	6 500 000.00		-516 900.00	5 983 100.00		5 983 100.00		5 983 100.00
310 ASSIGNED REVENUE ACCRUING FROM THE CONTRIBUTION OF ITER HOST STATE	129 100 000.00			129 100 000.00		129 100 000.00		129 100 000.00
410 MISCELLANEOUS REVENUE		1 179.15	10 912.00	12 091.15	236 528.22	248 619.37	33 161.55	281 780.92
Of which revenue of the year		1 179.15	10 912.00	12 091.15	230 205.75	242 296.90		242 296.90
Of which revenue from previous year					6 322.47	6 322.47	33 161.55	39 484.02
510 OTHER REVENUE	p.m.			0.00	1 399 515.87	1 399 515.87		1 399 515.87
520 REVENUE FROM ITER ORGANISATION	p.m.			0.00	5 319 008.98	5 319 008.98	11 610 146.80	16 929 155.78
Of which revenue of the year	p.m.			0.00	5 125 000.00	5 125 000.00		5 125 000.00
Of which revenue from previous year	p.m.			0.00	194 008.98	194 008.98	11 610 146.80	11 804 155.78
Total Revenue	742 811 868.00	1 179.28	-115 988.00	742 697 059.28	6 955 053.07	749 652 112.35	15 178 745.76	764 830 858.11

Fig. 25 Evolution of Statement of Revenue in Payment Appropriations

The breakdown of revenue by contributors in 2021 in payment appropriations is:

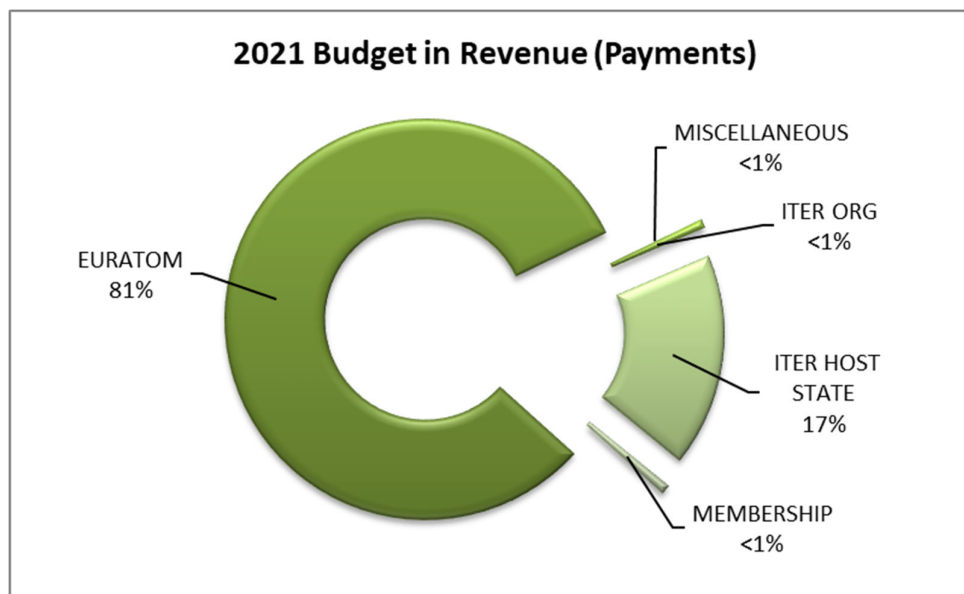


Fig. 26 Revenue Breakdown in Payment Appropriations

The changes to the statement of revenue in payment appropriations are identical to those in commitment appropriations, except for the revenue received from IO and the appropriations carried over from the 2020 budget:

- **Chapter 520: + EUR 5 319 008.98** of revenue earmarked to the implementation of project changes requested and financed by the IO, called according to the needs of treasury for the overall set of requested changes.

The automatic carry-over of payment appropriations from the 2020 budget are:

- **Chapter 120: + EUR 3 535 437.41** from the automatic carry-over of 2020 administrative expenditure committed and not yet paid at the end of 2020 (non-differentiated appropriations);
- **Chapter 410: + EUR 33 161.55** identical to commitments, and corresponding to a contribution of the building owner, paid in 2020;
- **Chapter 520: + EUR 11 610 146.80** of carry-over from 2020 of revenue received from the IO but not yet implemented at the end of this previous year.

7.5. Statement of Expenditure

7.5.1. Expenditure in Commitment Appropriations

The statement of expenditure adopted with the original 2021 budget is aligned to the Single Programming Document 2021-2025¹⁰, in particular the *Work Programme 2021* that serves as financing decision for the operational budget 2021.

The statement of expenditure has been further adjusted in the course of its implementation in accordance with the successive changes in the statement of revenue and with the amendments to the Work Programme (WP). These adjustments were implemented through the amending budgets and the transfers approved by the F4E Director within the limits foreseen in article 26 of the F4E FR.

The GB is duly informed about the transfers at each GB meeting, and in the Budgetary and Financial Management Report after the closure.

The appropriations accruing from assigned revenue and not used at the end of 2020 were automatically carried over to the budget 2021.

No further carry-over was requested to the GB.

The final breakdown of the statement of expenditure in commitment appropriations is as follows:

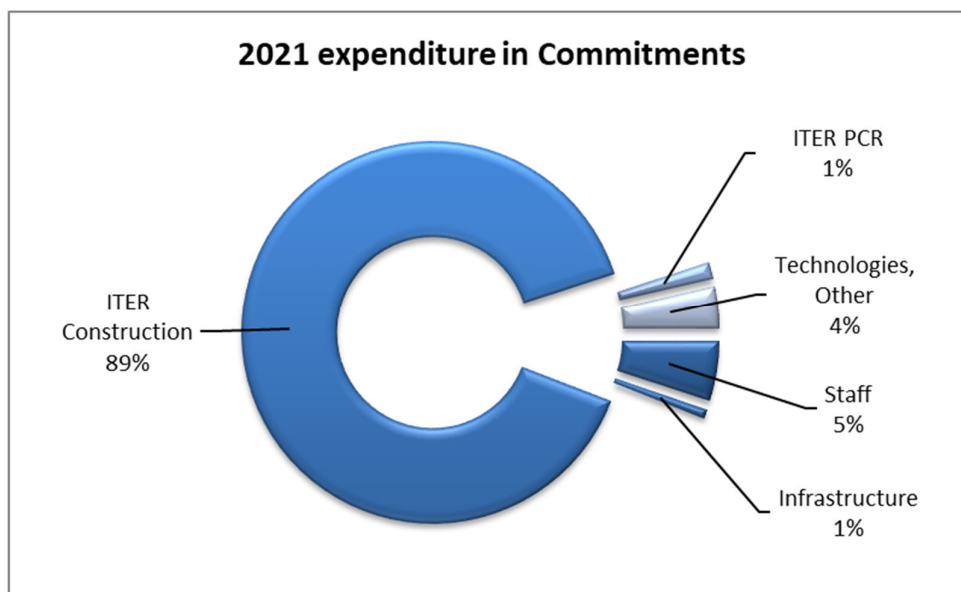


Fig. 27 Final breakdown of the Expenditure in Commitments

¹⁰ F4E_D_2MXBS2 adopted by F4E GB on 10 December 2020

Heading of the 2021 Budget Commitment Expenditure	Evolution of the statement of expenditure								Implementation	
	Original Budget	Amending budget 1	Amending budget 2	Transfers adopted by F4E Director	Final budget	Additional Revenue	Carried over	Final Appropriations	Execution	%
	(1)	(2)	(3)	(4)	(5)=Σ(1 to 4)	(6)	(7)	(8)=Σ(5 to 7)	(9)	(10)=(9)/(8)
A1 STAFF EXPENDITURE										
A10 SALARIES AND ALLOWANCES FOR ESTABLISHMENT PLAN POSTS	37 198 000.00			306 468.71	37 504 468.71			37 504 468.71	37 504 468.71	100.0%
A11 SALARIES AND ALLOWANCES FOR EXTERNAL PERSONNEL	12 168 000.00			-1 249 640.87	10 918 359.13			10 918 359.13	10 918 359.13	100.0%
A12 EXPENDITURE RELATING TO STAFF RECRUITMENT	685 000.00			-115 969.32	569 030.68			569 030.68	569 030.68	100.0%
A13 MISSION EXPENSES	800 000.00			-550 000.00	250 000.00	771.46		250 771.46	250 771.46	100.0%
A14 SOCIO-MEDICAL INFRASTRUCTURE	350 000.00			172 000.00	522 000.00			522 000.00	522 000.00	100.0%
A15 TRAINING	689 000.00			99 761.00	788 761.00	569.53		789 330.53	789 330.53	100.0%
A16 EXTERNAL SERVICES	p.m.			630 000.00	630 000.00			630 000.00	630 000.00	100.0%
A17 RECEPTIONS/EVENTS AND REPRESENTATION	10 000.00			-9 875.00	125.00			125.00	125.00	100.0%
A18 SOCIAL WELFARE	47 000.00			-16 400.00	30 600.00			30 600.00	30 600.00	100.0%
A19 OTHER STAFF RELATED EXPENDITURE	2 828 000.00			-4 873.35	2 823 126.65	5 633.50		2 828 760.15	2 828 760.15	100.0%
TITLE A1 - Total	54 775 000.00	0.00	0.00	-738 528.83	54 036 471.17	6 974.49	0.00	54 043 445.66	54 043 445.66	100.0%
A2 INFRASTRUCTURE AND OPERATING EXPENDITURE										
A21 RENTAL OF BUILDINGS AND ASSOCIATED COSTS	1 460 000.00			-209 500.00	1 250 500.00	14 046.61		1 264 546.61	1 264 546.61	100.0%
A22 INFORMATION, COMMUNICATION TECHNOLOGY AND DATA PROCESSING	3 960 000.00			134 603.90	4 094 603.90	3 565.00		4 098 168.90	4 098 168.90	100.0%
A23 MOVABLE PROPERTY AND ASSOCIATED COSTS	369 000.00			-160 152.87	208 847.13			208 847.13	208 847.13	100.0%
A24 CURRENT ADMINISTRATIVE EXPENDITURE	1 438 000.00			196 413.98	1 634 413.98	1 607.40		1 636 021.38	1 636 021.38	100.0%
A25 POSTAGE / TELECOMMUNICATIONS	531 000.00			-137 200.00	393 800.00			393 800.00	393 800.00	100.0%
A26 MEETING EXPENSES	469 000.00			-121 406.48	347 593.52			347 593.52	347 593.52	100.0%
A27 RUNNING COSTS IN CONNECTION WITH OPERATIONAL ACTIVITIES	p.m.				0.00		33 161.55	33 161.55	33 161.55	100.0%
A28 INFORMATION AND PUBLISHING	40 000.00			-25 500.00	14 500.00			14 500.00	14 500.00	100.0%
A29 OTHER INFRASTRUCTURE AND OPERATING EXPENDITURE	266 000.00			-53 414.20	212 585.80			212 585.80	212 585.80	1.00
TITLE A2 - Total	8 533 000.00	0.00	0.00	-376 155.67	8 156 844.33	19 219.01	33 161.55	8 209 224.89	8 209 224.89	100.0%
TITLE A1 & A2 - Total Administrative Expenditure	63 308 000.00	0.00	0.00	-1 114 684.50	62 193 315.50	26 193.50	33 161.55	62 252 670.55	62 252 670.55	100.0%

Heading of the 2021 Budget Commitment Expenditure	Evolution of the statement of expenditure								Implementation	
	Original Budget	Amending budget 1	Amending budget 2	Transfers adopted by F4E Director	Final budget	Additional Revenue	Carried over	Final Appropriations	Execution	%
	(1)	(2)	(3)	(4)	(5)=Σ(1 to 4)	(6)	(7)	(8)=Σ(5 to 7)	(9)	(10)=(9)/(8)
B3 OPERATIONAL EXPENDITURE										
B31 ITER CONSTRUCTION INCLUDING SITE PREPARATION	742 301 679.51	-1 711 896.92	18 054 947.84	5 202 389.23	763 847 119.66	209 726.45		764 056 846.11	764 056 846.11	100.0%
B32 TECHNOLOGY FOR ITER AND DEMO	10 275 000.00	-5 881 206.70	1 906 063.96	-905 233.33	5 394 623.93			5 394 623.93	5 394 623.93	100.0%
B33 TECHNOLOGY FOR BROADER APPROACH	30 424 241.52	2 658 758.12	-19 538 908.20	-3 482 804.88	10 061 286.56			10 061 286.56	10 061 286.56	100.0%
B35 EXTERNAL SUPPORT ACTIVITIES	p.m.	6 173 870.74	-1 915 939.65	12 693 361.59	16 951 292.68			16 951 292.68	16 951 292.68	100.0%
B36 OTHER OPERATIONAL EXPENDITURE	17 758 275.97	-1 238 345.96	1 377 848.05	-12 393 028.11	5 504 749.95	608.27		5 505 358.22	5 505 358.22	100.0%
Title B3 - Total	800 759 197.00	1 179.28	-115 988.00	1 114 684.50	801 759 072.78	210 334.72	0.00	801 969 407.50	801 969 407.50	100.0%
B4 EARMARKED EXPENDITURE										
B41 ITER CONSTRUCTION - ITER HOST STATE CONTRIBUTION	184 700 000.00				184 700 000.00		626 031.77	185 326 031.77	185 326 031.77	100.0%
B42 ACTIVITIES LINKED TO ITER ORGANIZATION	p.m.				0.00	15 107 842.85	3 825 307.46	18 933 150.31	15 285 208.66	80.7%
B43 OTHER EARMARKED EXPENDITURE	p.m.				0.00	1 399 515.87		1 399 515.87	1 399 515.87	100.0%
Title B4 - Total	184 700 000.00	0.00	0.00	0.00	184 700 000.00	16 507 358.72	4 451 339.23	205 658 697.95	202 010 756.30	98.2%
Titles B3 & B4 - Subtotal	985 459 197.00	1 179.28	-115 988.00	1 114 684.50	986 459 072.78	16 717 693.44	4 451 339.23	1 007 628 105.45	1 003 980 163.80	99.6%
Total BUDGET in Commitment appropriations	1 048 767 197.00	1 179.28	-115 988.00	0.00	1 048 652 388.28	16 743 886.94	4 484 500.78	1 069 880 776.00	1 066 232 834.35	99.7%

Note: Presentation of the carry over in Commitment for B4x in appropriation for the year only.

Fig. 28 Evolution of the Expenditure in Commitments in 2021

Note: the figures for the budget Title 4 refer to the available appropriations for the 2021 budget only, whereas the details of the 2021 implementation by funds source provided in Fig. 43, Annex 8.4 from ABAC refers to the appropriations of the year plus the amounts left over on the commitments carried over from the previous years. This is due to the specific management of assigned revenue in the accounting system.

7.5.1.1. Administrative Expenditure

The administrative expenditure are made of non-differentiated appropriations (commitment and payment appropriations are in unison), therefore any transfers or budget amendments are identical in commitment and payment appropriations.

The F4E Director approved a series of transfers resulting in a reduction of the administrative budget amounting in total to EUR 1 114 684.50. Those transfers allow to adjust the detailed allocation to the evolution of the needs.

The obligation made to F4E to submit an original budget strictly equal to the detailed allocation of the administrative expenditure provisionally established for the preparation of the Draft Single Programming Document, more than 24 months in advance, shall be considered when analysing the multiple adjustments.

The major changes (> +/-10%) in the administrative expenditure (variation of the final implementation in % of the initial budget) by chapter are:

Title 1 – Staff expenditure (-1%)

- **Chapter A11 Salaries and allowances for external personnel** **(-) 10%**
The Budget decrease is due to a higher vacancy rate than foreseen during the first semester 2021. i.e. most of foreseen recruitments were postponed as from September onwards;
- **Chapter A12 Expenditure relating to staff recruitment** **(-) 17%**
The expenses linked to taking up duties and departures (daily allowances, installation/reinstallation, removals and travel expenses) have significantly decreased due to the lower number of requests from staff compared to the forecast. There was also a decrease of the expenditure related to selections (Assessment centre, publications, interviews and medical visits. etc.) mainly due to Covid-19 situation;
- **Chapter A13 Mission expense** **(-) 69%**
The Budget decrease in missions is obviously due to the crisis of the Covid-19 and the various form of confinements;
- **Chapter A14 Socio medical infrastructure** **(+) 49%**
The original budget requested and approved for the medical expenditure was not sufficient, in particular to cover the different actions to support staff in the area of psychological support;
- **Chapter A15 Training** **(+) 15%**
The Budget increase is due to the necessity to launch a series of workshops in the area of “the human capital and working culture”, which were not foreseen in the original budget;
- **Chapter A16 External services** **(+) - %**
There was no appropriations assigned to this new budget chapter in the original budget. The cost of interim staff has later been moved under this budget chapter;
- **Chapter A17 Receptions/events and representation** **(-) 99%**
F4E is traditionally making a very limited use of this budget;

- **Chapter A18 Social Welfare** **(-) 35%**
The Budget decrease is due to the cancellation of any foreseen events, in relation with the crisis of the Covid-19 and the various form of confinements.

Title 2 – Infrastructure and operating expenditure (- 4%)

- **Chapter A21 Rental of buildings and associated cost** **(-) 13%**
The budget decrease is linked to the Covid-19 crisis and the lower occupancy of the building, resulting in lower maintenance fees (electricity, water, air conditioning...);
- **Chapter A23 Movable property and associated cost** **(-) 43%**
Some purchases for the refurbishment of the ground floor including equipment for the main meeting room, and also the replacement of one of the service cars were postponed due to delays in works and to transitional requirements from the Covid-19 situation;
- **Chapter A24 Current administrative expenditure** **(+) 14%**
The budget increase is in particular due to the increase of the costs for consultation in the area of workforce planning and to expenses related to general services;
- **Chapter A25 Postage and Telecommunications** **(-) 26%**
The exceptional cost booked in view of contracting telephony services for the post-covid-19 workplace, were evidently not executed. The expenditure foreseen for the video conference system Elisa Videra (which has been used extensively in 2020) has been reduced following its replacement with MS Teams during 2021;
- **Chapter 26 Meeting expenses** **(-) 26%**
The Budget decrease is obviously due to the crisis of the Covid-19 and the various form of confinements, in particular all governance meeting were held by videoconference;
- **Chapter 27 Running cost in connection with operational activities** **(+) - %**
The allocation is from the carry-over of revenue from the contribution of the building owner to F4E refurbishment;
- **Chapter A28 Information and publishing** **(-) 64%**
The restrictions applied because of Covid-19 have minimized the number of events with physical presence almost to none. The production of publications is frequently linked to these events, where our publications are offered to participants. The increase of the teleworking has also affected the production of publications, replaced sometimes by electronic publications/electronic information;
- **Chapter A29 Other infrastructure and operating expenditure** **(-) 20%**
The decrease is linked to the restrictions applied because of Covid-19, which have minimized the number of events with physical presence almost to none, with the correspondent decrease in the amount spent in F4E participation or organisation of such events. At the same time, other activities like filming have also been affected by the restrictions.

7.5.1.2. Operational Expenditure in commitment

The statement of operational expenditure was modified with the amending budgets to reflect the changes in the statement of revenue and to align the operational budget in commitment appropriations with the successive amendments to the 2021 WP.

The major changes (> +/-10%) in the Operational expenditure (variation of the final implementation in % of the original budget) are:

Title 3 – Operational expenditure (+0%)

The budget for operational expenditure was stable compared to the original budget. The only small adjustment are due to the carry-over from the previous year and the transfer from administrative expenditure. This small budget increase was entirely allocated to the domain of ITER construction, the main F4E project.

- **Chapter B32 Technology for ITER and Demo** **(-) 47%**
The decrease is related to changes in the planning and changes of procurement strategy for the Test Blanket Modules and the Plasma Engineering activities, leading to the postponement of specific contracts to 2022;
- **Chapter B33 Technology for Broader Approach** **(-) 67%**
The definition of some technical aspects of the most critical High Heat Flux (HHF) contract faced some delays that affected the finalisation of the technical specification of the Normal Heat Flux (NHF) and the Divertor Cassette contracts. Those contracts are postponed to 2022;
- **Chapter B35 External Support Activities** **(+) - %**
Following the recommendation from the European Court of Auditor to create a new chapter to cover the expenditure linked to “External Service providers”, previously hosted in a “Chapter 34 Other expenditure”, the F4E Budgetary nomenclature has been revised in 2021. There was no appropriations assigned to this new budget chapter in the Original Budget. The cost of External staff providers have been moved under this budget chapter, in particular from Chapter 36 below;
- **Chapter B36 Other Operational Expenditure** **(-) 69 %**
This Chapter, issued from the “Chapter 34 Other expenditure” in previous F4E Budgets, was created on the recommendation from the European Court of Auditors mentioned above. This variation is therefore the result of the breakdown of the previous budget chapter 34 into chapter 35 for External support activities and the present chapter for Other operational expenditure, of administrative nature.

Title 4 – Earmarked expenditure

The budget from the ITER Host State contribution (France), entirely allocated to the domain of ITER construction, was not modified along 2021. The Budget chapters for other earmarked expenditure and from IO were fed from the call for funds to Japan for the UP#10 arrangement and from variations (tasks) requested and financed by IO.

7.5.1.3. Implementation of the Budget in Commitments

Commitments 2021: 1069.9 M€

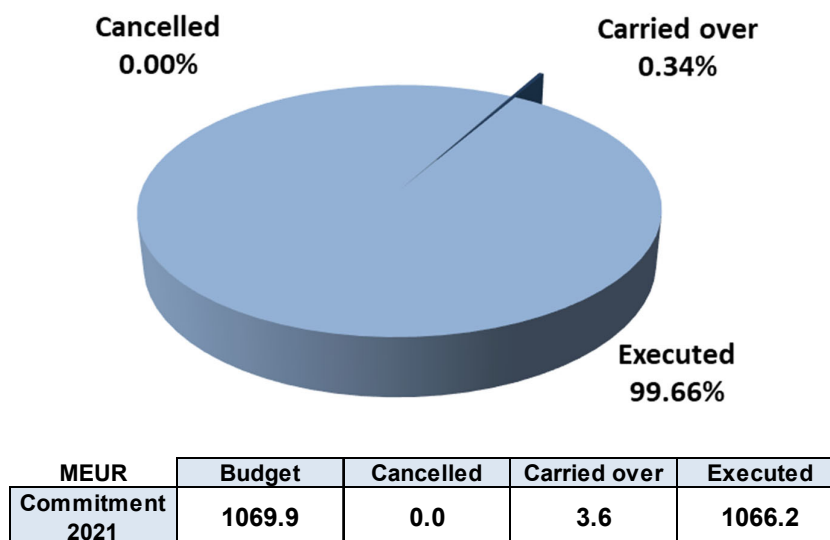


Fig. 29 Implementation of the Budget in Commitments

7.5.1.4. Open Commitments at 31 December 2021

The F4E obligations amount to EUR 1 531.25 million at the closure of the 2021 budget, representing an increase of about EUR 200.00 million compared to the end of 2020.

Remarks:

- The budgetary commitments made through instalments on the budget 2020 have been completed with the budget 2021 for a total amount of EUR 137.35 million.
- Three on-going procurement procedures have been globally committed for a total amount of EUR 123.74 million, for implementation in individual commitments in 2022. They are included in the total of the F4E obligations/open commitments at the end of 2021.

(EUR)

2021 budget Heading	Open Commitments				
	from previous years (1)	from 2021 budget (2)	Total (3)=(1)+(2)	To be de-committed (4)	Net Total (5)=(3)-(4)
TITLE 1 - STAFF EXPENDITURE	0.00	1 355 058.47	1 355 058.47	0.00	1 355 058.47
TITLE 2 - INFRASTRUCTURE AND OPERATING EXPENDITURE	0.00	3 461 583.05	3 461 583.05	0.00	3 461 583.05
Total TITLE 1 & 2	0.00	4 816 641.52	4 816 641.52	0.00	4 816 641.52
B31 - ITER CONSTRUCTION INCLUDING SITE PREPARATION	680 815 358.84	541 033 199.98	1 221 848 558.82	57 084 161.69	1 164 764 397.13
B32 - TECHNOLOGY FOR ITER AND DEMO	173 964.07	5 139 601.25	5 313 565.32	0.00	5 313 565.32
B33 - TECHNOLOGY FOR BROADER APPROACH	5 167 252.61	6 073 176.62	11 240 429.23	0.00	11 240 429.23
B35 - EXTERNAL SUPPORT ACTIVITIES	8 669 880.85	13 083 000.88	21 752 881.73	0.00	21 752 881.73
B36 - OTHER OPERATIONAL EXPENDITURE	0.00	3 483 706.12	3 483 706.12	0.00	3 483 706.12
Total TITLE 3	694 826 456.37	568 812 684.85	1 263 639 141.22	57 084 161.69	1 206 554 979.53
B41 - ITER CONSTRUCTION - ITER HOST STATE CONTRIBUTION	161 086 558.94	141 789 191.05	302 875 749.99	0.00	302 875 749.99
B42 - ACTIVITIES LINKED TO ITER ORGANIZATION	11 145 716.00	14 516 891.19	25 662 607.19	9 393 964.01	16 268 643.18
B43 - OTHER EARMARKED EXPENDITURE	0.00	736 527.90	736 527.90	0.00	736 527.90
Total TITLE 4	172 232 274.94	157 042 610.14	329 274 885.08	9 393 964.01	319 880 921.07
Total TITLE 3 & 4	867 058 731.31	725 855 294.99	1 592 914 026.30	66 478 125.70	1 526 435 900.60
Total	867 058 731.31	730 671 936.51	1 597 730 667.82	66 478 125.70	1 531 252 542.12

Fig. 30 Open Commitments Carried Forward from 2021 to 2022

7.5.1.5. Status of Unused Commitment Appropriations

According to the annuality principle of the F4E FR, the unused commitment appropriations at the end of each year and the de-commitments made on the budget of the previous years are cancelled, except for assigned revenue. The F4E FR also foresees the possibility to make the cancelled appropriations available again in future F4E budgets. The situation for unused appropriations at 31/12/2021 is as follows:

Operational Commitment Appropriations (EUR)		Budgets (Title 3)	Assigned revenue (Title 4)	Total
Under execution (since 2008)	+	660 956.56	16 993 811.15	17 654 767.71
De-commitments (since 2008)	+	876 597 478.10	203 189 999.33	1 079 787 477.43
Carry-over (since 2008)	-	551 436.18	16 993 811.15	17 545 247.33
Made available again (since 2008)	-	765 632 662.39	199 025 547.90	964 658 210.29
Amount available for future budgets	=	111 074 336.09	4 164 451.43	115 238 787.52

Fig. 31 Status of Unused Commitment Appropriations

F4E successfully executed the amount available for re-use since 2008 by the end of 2020, except for the last de-commitments done during the last quarter of 2020, achieving the objective of the full implementation of the allocated budget for the period 2007-2020.

New important de-commitments were done during 2021, in particular in relation with the TB04 contract.

7.5.2. Expenditure in Payment Appropriations

The statement of expenditure was modified in the course of its implementation in accordance with the successive changes in the statement of revenue. Additional adjustments between budgetary chapters were implemented through transfers authorised by the F4E Director, to honour all contractual obligations toward suppliers and to reach the highest possible rate of budget implementation at the year-end.

Evolution of the Statement of Expenditure in Payment Appropriations (EUR)

Heading of the 2021 Budget Payment Expenditure	Evolution of the statement of expenditure							Implementation				
	Original Budget	Amending budget 1	Amending budget 2	Transfers adopted by F4E Director	Final budget	Additional Revenue	Carried over	Final Appropriations	On B2021 commitments	On B2020 commitments	Execution	% (12)= (11)/(8)
	(1)	(2)	(3)	(4)	(5)=Σ(1 to 4)	(6)	(7)	(8)=Σ(5 to 7)	(9)	(10)	(11)=(9)+(10)	(12)=(11)/(8)
A1 STAFF EXPENDITURE												
A10 SALARIES AND ALLOWANCES FOR ESTABLISHMENT PLAN POSTS	37 198 000.00			306 468.71	37 504 468.71			37 504 468.71	37 504 468.71		37 504 468.71	100.0%
A11 SALARIES AND ALLOWANCES FOR EXTERNAL PERSONNEL	12 168 000.00			-1 249 640.87	10 918 359.13		161 358.84	11 079 717.97	10 869 553.19	137 527.06	11 007 080.25	99.3%
A12 EXPENDITURE RELATING TO STAFF RECRUITMENT	685 000.00			-115 969.32	569 030.68		31 514.94	600 545.62	470 958.08	15 830.49	486 788.57	81.1%
A13 MISSION EXPENSES	800 000.00			-550 000.00	250 000.00	771.46	85 642.41	336 413.87	117 192.88	29 204.77	146 397.65	43.5%
A14 SOCIO-MEDICAL INFRASTRUCTURE	350 000.00			172 000.00	522 000.00		154 116.51	676 116.51	404 288.33	61 940.69	466 229.02	69.0%
A15 TRAINING	689 000.00			99 761.00	788 761.00	569.53	402 687.49	1 192 018.02	300 815.61	326 748.94	627 564.55	52.6%
A16 EXTERNAL SERVICES	p.m.			630 000.00	630 000.00			630 000.00	557 062.06		557 062.06	88.4%
A17 RECEPTIONS/EVENTS AND REPRESENTATION	10 000.00			-9 875.00	125.00		60.00	185.00			0.00	0.0%
A18 SOCIAL WELFARE	47 000.00			-16 400.00	30 600.00		33 079.75	63 679.75	1 500.00	32 080.75	33 580.75	52.7%
A19 OTHER STAFF RELATED EXPENDITURE	2 828 000.00			-4 873.35	2 823 126.65	5 633.50	105 766.74	2 934 526.89	2 462 548.33	47 069.53	2 509 617.86	85.5%
TITLE A1 - Total	54 775 000.00	0.00	0.00	-738 528.83	54 036 471.17	6 974.49	974 226.68	55 017 672.34	52 688 387.19	650 402.23	53 338 789.42	96.9%
A2 INFRASTRUCTURE AND OPERATING EXPENDITURE												
A21 RENTAL OF BUILDINGS AND ASSOCIATED COSTS	1 460 000.00			-209 500.00	1 250 500.00	14 046.61	403 940.71	1 668 487.32	913 345.85	328 969.60	1 242 315.45	74.5%
A22 INFORMATION, COMMUNICATION TECHNOLOGY AND DATA PROCESSING	3 960 000.00			134 603.90	4 094 603.90	3 565.00	1 402 671.09	5 500 839.99	2 216 675.98	1 351 210.22	3 567 886.20	64.9%
A23 MOVABLE PROPERTY AND ASSOCIATED COSTS	369 000.00			-160 152.87	208 847.13		154 312.15	363 159.28	77 684.06	138 989.93	216 673.99	59.7%
A24 CURRENT ADMINISTRATIVE EXPENDITURE	1 438 000.00			196 413.98	1 634 413.98	1 607.40	211 045.25	1 847 066.63	1 044 100.06	158 466.51	1 202 566.57	65.1%
A25 POSTAGE / TELECOMMUNICATIONS	531 000.00			-137 200.00	393 800.00		170 107.08	563 907.08	233 644.46	68 951.51	302 595.97	53.7%
A26 MEETING EXPENSES	469 000.00			-121 406.48	347 593.52		56 369.53	403 963.05	141 701.83	47 160.29	188 862.12	46.8%
A27 RUNNING COSTS IN CONNECTION WITH OPERATIONAL ACTIVITIES	p.m.				0.00		33 161.55	33 161.55	2 688.00		2 688.00	8.1%
A28 INFORMATION AND PUBLISHING	40 000.00			-25 500.00	14 500.00		1 292.70	15 792.70	6 852.29	357.08	7 209.37	45.7%
A29 OTHER INFRASTRUCTURE AND OPERATING EXPENDITURE	266 000.00			-53 414.20	212 585.80		161 472.22	374 058.02	110 949.31	82 003.36	192 952.67	51.6%
TITLE A2 - Total	8 533 000.00	0.00	0.00	-376 155.67	8 156 844.33	19 219.01	2 594 372.28	10 770 435.62	4 747 641.84	2 176 108.50	6 923 750.34	64.3%
TITLE A1 & A2 - Total Administrative Expenditure	63 308 000.00	0.00	0.00	-1 114 684.50	62 193 315.50	26 193.50	3 568 598.96	65 788 107.96	57 436 029.03	2 826 510.73	60 262 539.76	91.6%

Heading of the 2021 Budget Payment Expenditure	Evolution of the statement of expenditure								Implementation			
	Original Budget	Amending budget 1	Amending budget 2	Transfers adopted by F4E Director	Final budget	Additional Revenue	Carried over	Final Appropriations	On B2021 commitments	On B2020 commitments	Execution	% (12)= (11)/(8)
	(1)	(2)	(3)	(4)	(5)=Σ(1 to 4)	(6)	(7)	(8)=Σ(5 to 7)	(9)	(10)	(11)=(9)+(10)	(11)/(8)
B3 OPERATIONAL EXPENDITURE												
B31 ITER CONSTRUCTION INCLUDING SITE PREPARATION	519 803 868.00	1 179.28	-126 900.00	7 389 111.73	527 067 259.01	209 726.45		527 276 985.46			521 657 388.66	98.9%
B32 TECHNOLOGY FOR ITER AND DEMO	4 100 000.00			-613 838.93	3 486 161.07			3 486 161.07			3 486 161.07	100.0%
B33 TECHNOLOGY FOR BROADER APPROACH	11 500 000.00			-4 091 817.40	7 408 182.60			7 408 182.60			7 408 182.60	100.0%
B35 EXTERNAL SUPPORT ACTIVITIES	p.m.		10 912.00	10 553 624.03	10 564 536.03			10 564 536.03			10 564 536.03	100.0%
B36 OTHER OPERATIONAL EXPENDITURE	15 000 000.00			-12 122 394.93	2 877 605.07	608.27		2 878 213.34			2 877 605.07	100.0%
Title B3 - Total	550 403 868.00	1 179.28	-115 988.00	1 114 684.50	551 403 743.78	210 334.72	0.00	551 614 078.50			545 993 873.43	99.0%
B4 EARMARKED EXPENDITURE												
B41 ITER CONSTRUCTION - ITER HOST STATE CONTRIBUTION	129 100 000.00				129 100 000.00			129 100 000.00			127 715 100.01	98.9%
B42 ACTIVITIES LINKED TO ITER ORGANIZATION	p.m.				0.00	5 319 008.98	11 610 146.80	16 929 155.78			10 613 351.30	62.7%
B43 OTHER EARMARKED EXPENDITURE	p.m.				0.00	1 399 515.87		1 399 515.87			662 987.97	47.4%
Title B4 - Total	129 100 000.00	0.00	0.00		129 100 000.00	6 718 524.85	11 610 146.80	147 428 671.65			138 991 439.28	94.3%
Titles B3 & B4 - Subtotal	679 503 868.00	1 179.28	-115 988.00	1 114 684.50	680 503 743.78	6 928 859.57	11 610 146.80	699 042 750.15			684 985 312.71	98.0%
Total BUDGET in Payment appropriations	742 811 868.00	1 179.28	-115 988.00	0.00	742 697 059.28	6 955 053.07	15 178 745.76	764 830 858.11			745 247 852.47	97.4%

Fig. 32 Evolution of the Operational Expenditure in Payment Appropriations

7.5.2.1. Administrative Expenditure

As mentioned previously, the administrative expenditure are of non-differentiated nature with the following consequences:

- The main changes made during the year compared to the original budget are identical in commitment and in payment. The changes for the 2021 budget are described in section 7.5.1.1;
- The statement of expenditure in payment appropriations includes the carry-over of appropriations corresponding to administrative contracts committed but not yet paid at the end of the previous year. This carry-over amounted to EUR 3 568 598.96;
- The current budget committed but not paid at the end of the year is automatically carried over and entered in the statement of expenditure of the following year.

7.5.2.2. Operational Expenditure in payments

Title 3 – Operational expenditure

The budget for operational expenditure remained stable compared to the original budget. The small amounts from additional revenue and carry over from the previous year and the transfer from administrative expenditure slightly increased the operational budget.

- **Chapter B32 Technology for ITER and Demo:** **(-) 15%**
The decrease of budget is the consequence of the reduction in commitment, having less advance payments to execute on the new contracts.
- **Chapter B33 Technology for Broader Approach:** **(-) 36%**
The reduction is also due to the corresponding decrease in commitment with less advanced payments.

Title 4 – Earmarked expenditure

The budget from the ITER Host State contribution (France), allocated to the domain of ITER construction in full, was not modified along 2021. The Budget chapters for other earmarked expenditure and from IO arose from the cashing of the respective call for funds.

7.5.2.3. Implementation of the budget in payment

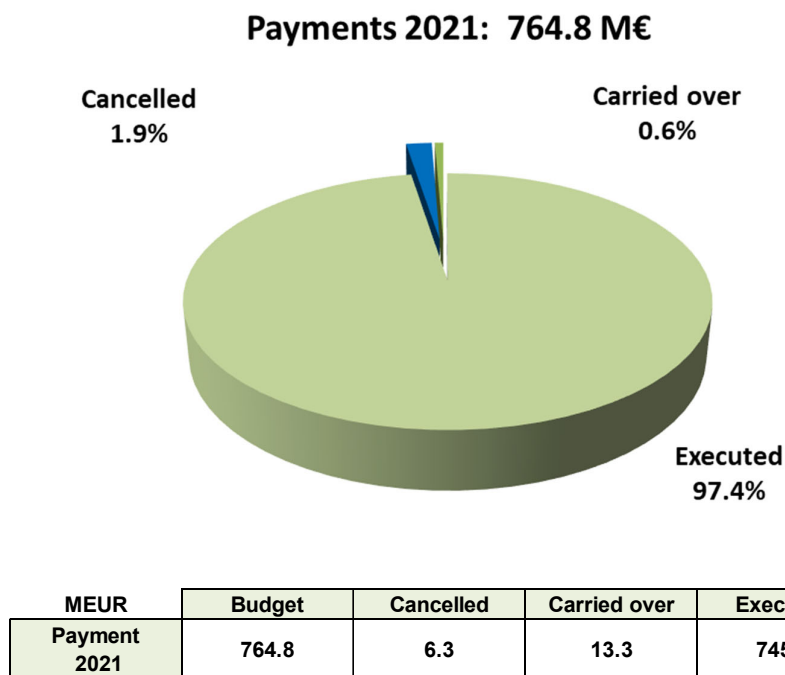


Fig. 33 Final Implementation in PA

97.4% of the available budget has been implemented.

The amount of VAT paid on contracts and not reimbursed by Members Tax Authorities to F4E was EUR 14.29 million at 31/12/2021.

Together with the funds reservation for the payment of salaries in January 2022, it resulted in an insufficient treasury balance preventing 100 % execution of the budget (EUR):

VAT France, not called	11 926 945.86
VAT France, requested	2 643 829.12
VAT Germany, not called	1 933.00
VAT Germany, requested	12 230.66
Reserve for salaries Jan 22	5 000 000.00
Total	19 584 938.64

Balanced with the following non-execution (EUR):

Administrative expenditure 2021 not yet paid	4 768 436.44	Automatically carried over
Administrative expenditure 2020 not paid	708 926.68	Cancelled
B41 ITER construction HIS contribution	1 384 899.99	Automatically carried over
B42 Activities linked to ITER organization	6 315 804.48	Automatically carried over
B43 Other earmarked expenditure	736 527.90	Automatically carried over
Other miscellaneous revenue, not used	48 813.35	Automatically carried over
B31 ITER construction	5 619 596.80	Cancelled
Total	19 583 005.64	

7.5.2.4. Cancelled Payment Appropriations

(EUR)			
2021 budget Heading	Unused Appropriations (1)	Carry over to 2022 (2)	Cancelled appropriation (3)=(1)-(2)
TITLE 1 - STAFF EXPENDITURE	1 678 882.92	1 355 058.47	323 824.45
TITLE 2 - OPERATING EXPENDITURE	3 846 685.28	3 461 583.05	385 102.23
Total TITLE 1 & 2 Payment	5 525 568.20	4 816 641.52	708 926.68
TITLE 3 - OPERATIONAL EXPENDITURE	5 620 205.07	608.27	5 619 596.80
TITLE 4 - EARMARKED EXPENDITURE	8 437 232.37	8 437 232.37	0.00
Total TITLE 3 & 4 Payment	14 057 437.44	8 437 840.64	5 619 596.80
Total BUDGET in Payment	19 583 005.64	13 254 482.16	6 328 523.48

Fig. 34 Cancelled Payment Appropriations

The payment appropriations not used by the 31/12/2021 are cancelled except the amount automatically carried over for non-differentiated appropriations (Title 1 and Title 2) and assigned revenue (Title 4), according to the F4E FR.

7.5.3. Additional Information on the Final Implementation 2020**7.5.3.1. Final Implementation of the Administrative Expenditure 2020**

The definitive execution of the administrative budget 2020 is determined at the end of 2021, when the amounts carried over from the previous year corresponding to administrative actions committed but not yet paid are executed or cancelled. The execution of the payment appropriations carried over is shown with the implementation of the statement of expenditure above, column (10) of Fig.32.

The final execution of the 2020 administrative budget is therefore as follows:

(EUR)	Title 1	Title 2	Total
Final 2020 Administrative Budget	51 558 335.60	6 956 150.67	58 514 486.27

Fig. 35 Final Implementation of the Administrative Expenditure 2020**7.5.3.2. Global Commitments from 2020**

No global commitments remained open at the end of 2020 for execution in 2021.

7.6. Tasks financed by the ITER Organization

In 2021, the GB authorised F4E to collect revenue for any tasks requested and financed by IO, under a transparency provision consisting in the publication of the detail of the variation requested and approved for financing.

7.6.1. Variations approved in the 2021 Budget

The budget 2021 was increased by EUR 15 107 842.87 in commitment appropriations, corresponding to:

PCRs	Project request changes from Reserve Fund	11 384 597.51
I-NCs	Resolution of Non-Conformities	194 008.98
DIs	Direct Implementation	1 196 123.46
HC	HIT CARDS	2 333 112.92
TOTAL		15 107 842.87

Fig. 36 Variations approved in the 2021 budget

The total amount of variations corresponds to the sum of the various deviations or amendments to F4E contracts approved by IO DG or his delegate for the implementation of the requested changes.

7.6.2. Changes approved during 2021 for F4E

New changes to the project were requested by IO and their financing approved.

Some changes are merged with the variations for immediate execution.

The changes from the Reserve Fund are first approved on the principle and for either a fixed price or for actual cost. The variations implementing those changes are later submitted to IO for approval, once the cost is agreed with F4E suppliers.

The changes approved during 2021 amounted in total to EUR 13 574 436.10, made of:

PCRs	Project request changes from Reserve Fund	11 299 036.45
I-NCs	Resolution of Non-Conformities	137 519.07
DIs	Direct Implementation	1 683 279.89
HC	HIT CARDS	454 600.69
TOTAL		13 574 436.10

Fig. 37 Changes approved in 2021 for implementation by F4E

:

7.7. Budget Outturn Account 2021

The outturn for the financial year is calculated according to the total revenue actually cashed minus the total payment incurred during the year, minus the appropriations carried over to the following year.

Budget Outturn Account		2021	2020
REVENUE			
Euratom contribution	+	607 601 868.13	633 593 734.17
ITER Host state contributions	+	129 100 000.00	150 000 000.00
Membership contributions	+	5 983 100.00	6 311 400.00
ITER Organization	+	5 319 008.98	4 663 474.73
Other revenue	+	1 648 135.24	727 524.17
Other non budgeted revenue	+	28 162.61	0.00
TOTAL REVENUE (a)		749 680 274.96	795 296 133.07
EXPENDITURE			
<i>Title I: Staff</i>			
Payments	-	52 688 387.19	50 907 933.37
Appropriations carried over to the following year	-	1 355 058.47	974 226.68
<i>Title II: Infrastructure Expenditure</i>			
Payments	-	4 747 641.84	4 780 042.17
Appropriations carried over to the following year	-	3 461 583.05	2 594 372.28
<i>Title III: Operational Expenditure</i>			
Payments	-	545 993 873.43	741 050 777.29
Appropriations carried over to the following year	-	608.27	11 610 146.80
<i>Title IV Earmarked revenue</i>			
Payments	-	138 991 439.28	
Appropriations carried over to the following year	-	8 437 232.37	
<i>Total Payments (b)</i>		<i>742 421 341.74</i>	<i>796 738 752.83</i>
<i>Appropriations carried over to the following year (c)</i>		<i>13 254 482.16</i>	<i>15 178 745.76</i>
TOTAL EXPENDITURE (d)=(b)+(c)		755 675 823.90	811 917 498.59
OUTTURN FOR THE FINANCIAL YEAR (a-d)		-5 995 548.94	-16 621 365.52
Cancellation of unused payment appropriations carried over from previous year	+	708 926.68	933 726.90
Adjustment for carry-over from the previous year of appropriations available at 31.12 arising from assigned revenue	+	11 643 308.35	16 832 766.00
Exchange differences for the year (gain +/-)	+/-	17 886.33	-1 305.53
BALANCE OF THE OUTTURN ACCOUNT FOR THE FINANCIAL YEAR		6 374 572.42	1 143 821.85
Of which Administrative expenditure		726 813.01	1 008 571.34
Of which Operational expenditure		5 647 759.41	135 250.51
Administrative outturn:			
Exchange differences for the year		17 886.33	
Cancelled appropriation on title 1 and 2 from 2021		0.00	
Cancelled appropriation on title 1 and 2 from 2020		708 926.68	
Operational outturn:			
Cancelled payment appropriation on title 3 from 2021		5 619 596.80	
Non budgeted revenue from liquidated damages and Court decisions		28 162.61	

Fig. 38 Budget Outturn 2021

For the 2021 financial year, the balance of the budget outturn amounts to EUR 6 374 572.42.

8. Annexes

8.1. IO Tasks, variations approved for implementation in the 2021 budget

Hierarchy Path ID	ID	Name	Change Type	Year Of Change	OBS	Variation Total
F4E.PCR-642	Amendment 12	PBS 26 Interfaces with TB07 Buildings (64, 67, 68A, 68B, 69 and surrounding area)	PCR	2016	IP.SB	163 667.85
F4E.PCR-689	DNO#193	Creation of CCWS-2E loop by modification of CCWS-2C loop and to provide F4E a binding offer for mainly Supervision/SPC/B	PCR	2017	IP.SB	24 302.20
	OS#020	B37 Annex - Increase in room size	PCR	2017	IP.SB	72 260.96
F4E.PCR-716	DNO#171	Isolation valves for early operation of CWS	PCR	2017	IP.SB	13 244.56
F4E.PCR-717	#	"Revision/adding of handling cranes at L4 level of the TKM building (11-L4-04) as a consequence of PCR-662 and PCR 701 i	PCR	2021	IP.SB	303 481.58
	Cost Incurred (em	"Revision/adding of handling cranes at L4 level of the TKM building (11-L4-04) as a consequence of PCR-662 and PCR 701 i	PCR	2021	IP.SB	3 546 281.02
	DN#188	"Revision/adding of handling cranes at L4 level of the TKM building (11-L4-04) as a consequence of PCR-662 and PCR 701 i	PCR	2021	IP.SB	384 496.59
	DN#194	"Revision/adding of handling cranes at L4 level of the TKM building (11-L4-04) as a consequence of PCR-662 and PCR 701 i	PCR	2021	IP.SB	22 197.05
	DNO#16	"Revision/adding of handling cranes at L4 level of the TKM building (11-L4-04) as a consequence of PCR-662 and PCR 701 i	PCR	2021	IP.SB	208 051.06
	OS#248	"Revision/adding of handling cranes at L4 level of the TKM building (11-L4-04) as a consequence of PCR-662 and PCR 701 i	PCR	2021	IP.SB	46 276.89
	OS#529	"Revision/adding of handling cranes at L4 level of the TKM building (11-L4-04) as a consequence of PCR-662 and PCR 701 i	PCR	2021	IP.SB	97 307.83
	Pending	"Revision/adding of handling cranes at L4 level of the TKM building (11-L4-04) as a consequence of PCR-662 and PCR 701 i	PCR	2021	IP.SB	516 907.98
F4E.PCR-720	DNO#114	Definition of TB16 Interfaces at west end of CCWS-1 gallery (plates)	PCR	2016	IP.SB	92 601.90
	OS#187	Definition of TB16 Interfaces at west end of CCWS-1 gallery (plates)	PCR	2016	IP.SB	9 638.54
F4E.PCR-757	DNO#101	Nuclear Shielding improvement in Tokamak Building for critical/SIC electronic protection	PCR	2017	IP.SB	28 017.14
	DNO#106	Nuclear Shielding improvement in Tokamak Building for critical/SIC electronic protection	PCR	2017	IP.SB	52 903.76
	DNO#124 (DI-28)	Nuclear Shielding improvement in Tokamak Building for critical/SIC electronic protection	PCR	2017	IP.SB	17 970.01
F4E.PCR-805	DNO#151	RFE 1B stage1 modifications to reflect the updates in the sequence of activities	PCR	2018	IP.SB	14 567.55
	DNO#167	RFE 1B stage1 modifications to reflect the updates in the sequence of activities	PCR	2018	IP.SB	38 827.91
	OS#64	RFE 1B stage1 modifications to reflect the updates in the sequence of activities	PCR	2018	IP.SB	42 235.44
F4E.PCR-823	OS#596 (DI-9)	OS#596 (DI-9)	PCR	2019	IP.SB	219 170.64
	DN#200	DN#200	PCR	2019	IP.SB	125 832.05
F4E.PCR-824	OS#174	Reconciliation of additional costs for PBS26 new scope and quality issues on BIPS site works	PCR	2018	IP.SB	1 844 784.48
F4E.PCR-827	PCR-827	Installation of an additional oil retention tank on the north side of Building 32	PCR	2018	IP.SB	125 541.25
F4E.PCR-1010	DNO#160	DNO#160	PCR	2019	IP.SB	118 456.18
	OS#055	OS#055	PCR	2019	IP.SB	317 000.00
	OS#008	Temporary openings/ recesses in Tokamak Complex buildings	PCR	2019	IP.SB	141 997.05
F4E.PCR-1048	DNO#155	DNO#155	PCR	2019	IP.SB	65 588.64
	DNO#170	DNO#170	PCR	2019	IP.SB	143 881.12
F4E.PCR-1099	DNO#95 (DI-13)	DNO#95 (DI-13)	PCR	2020	IP.SB	210 005.00
F4E.PCR-1100	DNO#123DI-13)	DNO#123DI-13)	PCR	2020	IP.SB	286 074.00
F4E.PCR-1086	DNO#164	DNO#164	PCR	2020	IP.SB	106 174.27
F4E.PCR-1106	DNO#019	DNO#019	PCR	2020	IP.SB	1 045 073.70
	DNO#181	DNO#181	PCR	2020	IP.SB	123 686.39
F4E.PCR-1178	DACC#110654	Changes from IO on the technical requirements for the HINS vacuum valves	PCR	2020	IE.CF	108 626.92
F4E.PCR-1202	DNO#133774	Preliminary and final design of diagnostic ports and in-vessel feedouts	PCR	2021	IE.DG	465 000.00
F4E.PCR-1207	OS#104	OS104 - DACC Process#134182 - Interfaces with PBS26 Chilled Water in the Tokamak Complex and Demoting of B74 LACs	PCR	2021	IP.SB	161 373.45
	DN#111	DN#111 - Interfaces requirements between PBS 26.CH and PBS 62; and between various PBSs and PBS 65	PCR	2021	IP.SB	81 094.55
TOTAL PCRs						11 384 597.51
F4E.INC-0019	DACC#113234	Repair Work for TFCC06 and TFCC04 AUs (I-NC 19)	I-NC	2020	IE.MG	21 500.00
F4E.INC-0020	DACC#135522	Sector 3 PS3 RH CP 244 - IWS Clash Repair (IO NCR 24VNGC)	I-NC	2020	IE.IV	132 508.98
F4E.I-NC-0021	DACC#114426	Repair Work for TFCC04 (I-NC 21 also NCR-069)	I-NC	2020	IE.MG	40 000.00
TOTAL I-NCs						194 008.98

Hierarchy Path ID	ID	Name	Change Type	Year Of Change	OBS	Variation Total
F4E.DI-69	DNO#186	2019/038 Notification VISA, Supervision and Coordination for Backfilling of 80 Openings for PBS 62 in the TKC Service Pe	DI	2020	IP.SB	48 986.63
F4E.DI-75	OS#82	TB04 - OS#82 - Modification of PBS65 Compressed Air Network interfaces with PBS34 in Buildings 51-52 and Area 53	DI	2020	IP.SB	94 592.54
F4E.DI-78	DN#009	TB12 DNO #009 - Network connections to Emergency Response Building (ERB)	DI	2020	IP.SB	14 700.00
F4E.DI-80	OS#012	TB12 OS #012 - Modifications to B37 and Area 30 – Hooks, Embedded Plates and Transformers Oil Volume	DI	2020	IP.SB	60 000.00
F4E.DI-83	OS#207	TB16 - OS#207 - Instruction to Repairs Works Damaged by Others in Area 39/ Zone 11	DI	2021	IP.SB	28 414.13
F4E.DI-84	DN#220	F4E-2009-OPE-058-DNO220 Notification 2021/009 TKC Technical Support by the Architect Engineer	DI	2021	IP.SB	81 171.00
F4E.DI-87	OS#102	TB04-OS#102- Building 11 – Omission and Cancellation of Common Mode Failure (CMF) requirements for fire in Contractor's	DI	2021	IP.SB	128 328.00
F4E.DI-87	OS#103	TB04-OS#103- Building 11 Level B1- procurement of equipment and components, excluding PIC active components	DI	2021	IP.SB	641 640.00
F4E.DI-90	OS#210	TB16 - OS#210 - Update of Execution Design for new HSF routing	DI	2021	IP.SB	73 751.16
F4E.DI-91	OS#651	F4E-2009-OPE-058-OS651 Feasibility study to be performed by ENGAGE related to the inclusion of a modular building	DI	2021	IP.SB	14 185.00
F4E.DI-93	DNO#221	2021/008 Notification - Instruction to modify Inputs for PA 6.2.P2.EU.02 for implementation via PA 6.2.P2.EU.05	DI	2021	IP.SB	10 355.00
TOTAL DIRECT IMPLEMENTATION						1 196 123.46
TB04-HC-110005	TB04-HC-110005	Reaction forces for 13 common supports with PBS 26	HC	2019	IP.SB	2 489.76
TB04-HC-111012	TB04-HC-111012	11-B1 post K1 remaining action	HC	2020	IP.SB	35 505.68
TB04-HC-111017	TB04-HC-111017	B11-B1- PORT CELLS: interfaces PBS65 with PBS18	HC	2019	IP.SB	3 354.62
TB04-HC-111019	TB04-HC-111019	B11-B1-Constructive actions in Non-fire rated networks due to CMF report	HC	2019	IP.SB	106 460.62
TB04-HC-112012	TB04-HC-112012	B11- vertical shafts constructive actions in non-fire rated networks due to CMF	HC	2020	IP.SB	5 758.92
TB04-HC-112013	TB04-HC-112013	B11- Ring Manifold CMF requirements (EI631)	HC	2020	IP.SB	11 426.50
TB04-HC-112011	TB04-HC-112011	B11-Port Cells CMF requirements (EI631)	HC	2020	IP.SB	5 758.92
TB04-HC-111021	TB04-HC-111021	B11-DTR 4 Constructive actions in Non-fire rated networks due to CMF (E1628)	HC	2020	IP.SB	32 984.00
TB04-HC-111010	TB04-HC-111010	B11 level B1- CMF (non fire rated networks)	HC	2019	IP.SB	150 023.96
TB04-HC-110024	TB04-HC-110024	B11-B2-Constructive actions in Non fire rated networks due to CMF report	HC	2019	IP.SB	135 123.08
TB04-HC-113004	TB04-HC-113004	Constructive actions in non fire rated network due to CMF report	HC	2020	IP.SB	50 145.25
TB04-HC-113007	TB04-HC-113007	B11-alternative solution to flexible solution in non fire rated networks EI650 v1	HC	2020	IP.SB	16 456.48
TB04-HC-119001	TB04-HC-119001	B11-all levels implementation flexible solution in non fire rated networks	HC	2020	IP.SB	103 162.23
TB04-HC-112002	TB04-HC-112002	B11-L1-south gallery clashes TB04 with PBS 23,51,52 & accesibility with PBS32	HC	2019	IP.SB	71 580.59
TB04-HC-112004	TB04-HC-112004	B11- L1 relocation LAC 6211AC-ACG-3018	HC	2019	IP.SB	3 910.20
TB04-HC-112005	TB04-HC-112005	B11- L1 interface with PBS26 is missing for LAC 6211AC-ACG-3018	HC	2019	IP.SB	7 928.93
TB04-HC-112006	TB04-HC-112006	B11-L1 PBS 65 interfaces position modification requested by PBS 55	HC	2019	IP.SB	3 064.32
TB04-HC-113001	TB04-HC-113001	B11- L2 interface with PBS26 is missing for LAC 6211AC-ACG-4004	HC	2019	IP.SB	6 573.67
TB04-HC-111014	TB04-HC-111014	B11- DTR relocation LAC 6211AC-ACG-2002	HC	2019	IP.SB	18 194.40
TB04-HC-111018	TB04-HC-111018	B11-B1- PORT CELLS: interfaces PBS65 with PBS31 (CA)	HC	2019	IP.SB	14 708.73
TB04-HC-000004	TB04-HC-000004	AVEVA migration	HC	2019	IP.SB	178 000.00
TB04-HC-000005	TB04-HC-000005	AVEVA migration 2nd phase migration	HC	2019	IP.SB	160 479.30
TB04-HC-110012	TB04-HC-110012	Thermal expansion of PBS31 Cryostat Roughing line 11-B2M	HC	2019	IP.SB	1 339.50
TB04-HC-110014	TB04-HC-110014	B11- Splitted shafts for all levels	HC	2019	IP.SB	36 000.00
TB04-HC-110017	TB04-HC-110017	"Level B2/B2M- CMF Fire stability justification for nonPI/non SIC networks not fire rated"	HC	2019	IP.SB	143 750.00
TB04-HC-110019	TB04-HC-110019	11-B2 PBS26 thermal expansion	HC	2019	IP.SB	14 076.00
TB04-HC-110020	TB04-HC-110020	B11 level B2 Stress Calculation reports realignment with CMM	HC	2019	IP.SB	134 288.35
TB04-HC-110021	TB04-HC-110021	11-B2 realign calculation notes SIC CAS train A (increase thickness thermal protection due to CMF)	HC	2019	IP.SB	49 000.00
TB04-HC-11003	TB04-HC-11003	Shared OP with IO	HC	2019	IP.SB	3 726.00
TB04-HC-111002	TB04-HC-111002	Space availability in north gallerie B11-B1 (reducing HVAC duct)	HC	2019	IP.SB	4 140.00
TB04-HC-111003	TB04-HC-111003	Update of TB04 design following PC manifold workgroup	HC	2019	IP.SB	13 395.20
TB04-HC-111004	TB04-HC-111004	PBS 65 interfaces position modification requested by PBS 32	HC	2019	IP.SB	1 472.00
TB04-HC-111005	TB04-HC-111005	PBS 65 interfaces position modification requested by PBS 55	HC	2019	IP.SB	1 472.00
TB04-HC-111006	TB04-HC-111006	B11-B1 - PBS31 CA SIC connection points on PC pillars	HC	2019	IP.SB	4 416.00
TB04-HC-111008	TB04-HC-111008	WG63 - Alternative Design for HVAC System in DTR in B1	HC	2019	IP.SB	54 000.00
TB04-HC-111009	TB04-HC-111009	B11-B1 boundaries evolution btw PBS26 CCWS and TB04 LAC's (9214 & 2007)	HC	2019	IP.SB	828.00
TB04-HC-111011	TB04-HC-111011	B11 level B1 fire casing in Port cells ring manifold	HC	2019	IP.SB	86 400.00
TB04-HC-740004	TB04-HC-740004	Openings shared with IO PBS	HC	2019	IP.SB	1 863.00
TB04-HC-740009	TB04-HC-740009	Possibility to move LAC 6274AC-ACR-1040 :	HC	2019	IP.SB	66 517.28
TB04-HC-740012	TB04-HC-740012	B74 level B1 Evolution 3D CMM EP Draft B1 – K1	HC	2019	IP.SB	61 707.85
TB04-HC-744001	TB04-HC-744001	B74-L3 Modification LAC 6274AC-ACR-5020 (escape route)	HC	2019	IP.SB	4 600.00
TB04-HC-000003	TB04-HC-000003	TB04 participation in CAS planning	HC	2021	IP.SB	94 320.00
TB04-HC-110022	TB04-HC-110022	11-B2 realign calculation notes NDG B2M (rearragment due to clash resolution with thermal expansion+ CMF)	HC	2020	IP.SB	179 954.40
TB04-HC-111022	TB04-HC-111022	HELB DTR SIC CA A&B	HC	2020	IP.SB	7 495.42
TB04-HC-112007	TB04-HC-112007	B11-L1-Constructive actions in Non-fire rated networks due to CMF report	HC	2020	IP.SB	40 000.00
TB04-HC-112017	TB04-HC-112017	Mist connection interface L1 gallery	HC	2020	IP.SB	14 891.00
TB04-HC-112020	TB04-HC-112020	Post step K changes proposal on TB04 model modification to improve accesibility for cable pulling	HC	2020	IP.SB	7 137.50
TB04-HC-114002	TB04-HC-114002	B11 L3- Corner shaft- 2nd part of HC112002	HC	2020	IP.SB	16 227.00
TB04-HC-000011	TB04-HC-000011	Engineering for OGP2 AVEVA migration (complete engineering 1D scope for HC000005)	HC	2021	IP.SB	42 906.60
TB04-HC-111026	TB04-HC-111026	Port cells Removal Fire box Mist System	HC	2021	IP.SB	36 737.84
TB04-HC-112001	TB04-HC-112001	LAC 6211AC-ACP-3018 in Port Cell 18	HC	2021	IP.SB	9 321.50
TB04-HC-112022	TB04-HC-112022	VS07 Modifying penetration impacting TB04	HC	2021	IP.SB	3 071.90
TB04-HC-113008	TB04-HC-113008	PC pillars exact location for interface points	HC	2021	IP.SB	28 443.18
TB04-HC-113009	TB04-HC-113009	B11-L2 Clashes after Step K	HC	2021	IP.SB	8 657.48
TB04-HC-114003	TB04-HC-114003	B11-L3/L4/L5- Alternative routing HVAC duct-3rd part of HC112002	HC	2021	IP.SB	37 867.76
TOTAL HIT CARDS						2 333 112.92
TOTAL						15 107 842.87

Fig. 39 IO Tasks, variations approved for implementation in the 2021 budget

8.2. Multi-Annual Payment Schedule for the Operational Budget

Year	Commitments	Paid until end of 2013	MFF 2014-2020							Paid 2021	Outstanding amount
			Paid 2014	Paid 2015	Paid 2016	Paid 2017	Paid 2018	Paid 2019	Paid 2020		
<= 2007	115 445 438.21	113 121 009.41	2 062 547.93	261 880.87	-	-	-	-	-	-	-
2008	162 357 720.16	154 330 986.04	8 026 734.12	-	-	-	-	-	-	-	-
2009	295 658 870.68	234 711 366.38	26 549 875.43	13 259 338.45	8 008 925.36	9 541 166.89	1 995 858.00	595 166.88	294 128.11	494 543.46	208 501.72
2010	389 677 891.70	274 537 523.43	34 717 587.59	39 227 964.72	9 607 653.62	15 107 792.58	7 052 706.24	7 271 509.84	330 273.04	520 457.78	1 304 422.86
2011	370 662 303.45	224 611 776.68	29 962 742.34	26 739 952.54	35 305 192.97	42 950 825.08	1 186 051.53	1 003 257.15	1 425 464.43	227 422.68	7 249 618.05
2012	1 066 110 011.76	227 971 230.12	128 364 796.05	164 239 683.64	189 718 067.75	152 829 836.45	59 686 026.83	30 102 558.63	35 684 826.57	14 418 968.18	63 094 017.54
2013	754 633 022.58	67 053 699.98	181 415 330.39	96 759 662.07	124 738 904.24	85 677 718.98	80 349 613.29	14 030 308.08	28 835 072.31	18 485 338.22	57 287 375.02
2014	573 399 164.84	-	52 626 681.58	93 676 757.92	116 670 110.66	78 631 340.28	68 952 541.72	42 675 882.86	22 013 774.00	19 482 123.37	78 669 952.45
2015	366 701 610.71	-	-	46 616 552.99	123 149 761.09	50 541 171.89	57 643 284.14	39 324 580.84	6 428 325.64	3 947 737.56	39 050 196.56
2016	411 227 727.89	-	-	-	58 687 305.83	229 014 259.88	59 591 457.06	55 272 443.55	3 525 294.43	1 423 809.18	3 713 157.96
2017	481 672 933.29	-	-	-	-	119 010 491.88	168 993 842.63	65 041 867.40	79 991 985.33	19 067 695.60	29 567 050.45
2018	625 681 152.84	-	-	-	-	-	254 664 005.74	158 238 420.21	63 029 881.57	35 594 872.67	114 153 972.65
2019	660 573 038.06	-	-	-	-	-	-	267 773 299.20	170 961 600.39	72 880 000.06	148 958 138.41
2020	815 565 792.76	-	-	-	-	-	-	-	328 530 151.47	220 317 475.14	266 718 166.15
2021	1 003 980 163.80	-	-	-	-	-	-	-	-	278 124 868.81	725 855 294.99
Total	8 093 346 842.73	1 296 337 592.04	463 726 295.43	480 781 793.20	665 885 921.52	783 304 603.91	760 115 387.18	681 329 294.64	741 050 777.29	684 985 312.71	1 535 829 864.81

Fig. 40 Multiannual payment schedule (Operational)

- Notes :
- The actions accounted to F4E projects and implemented by the Commission and the CEA before F4E financial autonomy in 2008 are included.
 - For information, 1 244 commitment positions are open in ABAC on the 31/12/21, representing 15% more compared to the end of 2020.
 - Indicatively, the cumulative operational expenses at 31/12/21, are estimated to EUR 6 306.79 million in current value.

Estimate cumulative expense at 31/12/21 (MEUR - current value)	
Cumulative Payments	6 557 516 977.92
Open Pre-financing	-163 925 416.71
Accruals	111 980 623.25
Deferrals	-198 778 514.97
Cumulative Expenses	6 306 793 669.49

Fig. 41 Cumulative operational expenses

8.3. Reconciliation Between Budgetary and Accrual Based Accounts

	sign +/-	Amount (EUR)
Economic result (+ for surplus and - for deficit)	+/-	-61 471 723.43
<i>Adjustment for accrual items (items not in the budgetary result but included in the economic result)</i>		
Adjustments for Accrual Cut-off (reversal 31.12.N-1)	+/-	133 421 903.51
Adjustments for Accrual Cut-off (cut- off 31.12.N)	+/-	-151 652 788.15
Unpaid invoices at year end but booked in charges (class 6)	+	60 295 799.03
Depreciation of intangible and tangible assets	+	597 781.49
Provisions (impact of the year)	+/-	100 923 440.92
Recovery Orders issued in 2021 in class 7 and not yet cashed	-	-5 000.00
Prefinancing given in previous year and cleared in the year	+	40 985 912.11
Prefinancing received in previous year and cleared in the year	-	0.00
Payments made from carry over of payment appropriations	+	2 826 510.73
Other : 2021 corrections/credit notes on transactions booked in charges in previous years	+/-	-65 984.19
<i>Adjustment for budgetary items (item included in the budgetary result but not in the economic result)</i>		
Asset acquisitions (less unpaid amounts)	-	-126 323.49
New pre-financing paid in the year 2021 and remaining open as at 31.12.2021	-	-41 863 732.46
New pre-financing received in the year 2021 and remaining open as at 31.12.2021	+	6 374 572.42
Budgetary recovery orders issued before 2021 and cashed in the year	+	200 331.45
Budgetary recovery orders issued in 2021 on balance sheet accounts (not 7 or 6 accounts) and cashed	+	12 877.53
Payment appropriations carried over to 2022	-	-13 254 482.16
Cancellation of unused carried over payment appropriations from previous year	+	708 926.68
Adjustment for carry-over from the previous year of appropriations available at 31.12 arising from assigned revenue	+	11 643 308.35
Other : Invoices paid in 2021 but booked in charges in previous years	+/-	-83 176 808.76
Total		6 374 521.58
Budgetary result (+ for surplus)	+/-	6 374 572.42
Including amount of exchange rate differences		17 886.33
Delta not explained		-50.84

Fig. 42 Reconciliation between budgetary and accrual based accounts

8.4. 2021 Budget Implementation – Details by Fund Source

Fund Source: C1 - Credits of the year (EUR)

Official Budget Item	Budget Line Description	Fund Source	Commitment			Payment		
			Credit Com Amount (1)	Commitment Accepted Amount (2)	% Committed (2)/(1)	Credit Pay Amount (4)	Payment Accepted Amount (5)	% Paid (5)/(4)
A10	SALARIES AND ALLOWANCES FOR ESTABLISHMENT PLAN POSTS	C1	37 504 468.71	37 504 468.71	100.00%	37 504 468.71	37 504 468.71	100.00%
A11	SALARIES AND ALLOWANCES FOR EXTERNAL PERSONNEL	C1	10 918 359.13	10 918 359.13	100.00%	10 918 359.13	10 869 553.19	99.55%
A12	EXPENDITURE RELATING TO STAFF RECRUITMENT	C1	569 030.68	569 030.68	100.00%	569 030.68	470 958.08	82.76%
A13	MISSION EXPENSES	C1	250 000.00	250 000.00	100.00%	250 000.00	116 421.42	46.57%
A14	SOCIO-MEDICAL INFRASTRUCTURE	C1	522 000.00	522 000.00	100.00%	522 000.00	404 288.33	77.45%
A15	TRAINING	C1	788 761.00	788 761.00	100.00%	788 761.00	300 815.61	38.14%
A16	EXTERNAL SERVICES	C1	630 000.00	630 000.00	100.00%	630 000.00	557 062.06	88.42%
A17	RECEPTIONS, EVENTS AND REPRESENTATION	C1	125.00	125.00	100.00%	125.00		
A18	SOCIAL WEALFARE	C1	30 600.00	30 600.00	100.00%	30 600.00	1 500.00	4.90%
A19	OTHER STAFF RELATED EXPENDITURE	C1	2 823 126.65	2 823 126.65	100.00%	2 823 126.65	2 457 142.33	87.04%
Total Title 1			54 036 471.17	54 036 471.17	100.00%	54 036 471.17	52 682 209.73	97.49%

Fund Source: C1 - Credits of the year (EUR)

(cont'd)

Official Budget Item	Budget Line Description	Fund Source	Commitment			Payment		
			Credit Com Amount (1)	Commitment Accepted Amount (2)	% Committed (2)/(1)	Credit Pay Amount (4)	Payment Accepted Amount (5)	% Paid (5)/(4)
A21	RENTAL OF BUILDINGS AND ASSOCIATED COSTS	C1	1 250 500.00	1 250 500.00	100.00%	1 250 500.00	911 061.34	72.86%
A22	INFORMATION, COMMUNICATION TECHNOLOGY AND DATA PROCESSING	C1	4 094 603.90	4 094 603.90	100.00%	4 094 603.90	2 216 675.98	54.14%
A23	MOVABLE PROPERTY AND ASSOCIATED COSTS	C1	208 847.13	208 847.13	100.00%	208 847.13	77 684.06	37.20%
A24	CURRENT ADMINISTRATIVE EXPENDITURE	C1	1 634 413.98	1 634 413.98	100.00%	1 634 413.98	1 044 100.06	63.88%
A25	POSTAGE / TELECOMMUNICATIONS	C1	393 800.00	393 800.00	100.00%	393 800.00	233 644.46	59.33%
A26	MEETING EXPENSES	C1	347 593.52	347 593.52	100.00%	347 593.52	141 701.83	40.77%
A28	INFORMATION AND PUBLISHING	C1	14 500.00	14 500.00	100.00%	14 500.00	6 852.29	47.26%
A29	OTHER INFRASTRUCTURE AND OPERATING EXPENDITURE	C1	212 585.80	212 585.80	100.00%	212 585.80	110 949.31	52.19%
Total Title 2			8 156 844.33	8 156 844.33	100.00%	8 156 844.33	4 742 669.33	58.14%

Fund Source: C1 - Credits of the year (EUR)

(cont'd)

Official Budget Item	Budget Line Description	Fund Source	Commitment			Payment		
			Credit Com Amount (1)	Commitment Accepted Amount (2)	% Committed (2)/(1)	Credit Pay Amount (4)	Payment Accepted Amount (5)	% Paid (5)/(4)
B31	ITER CONSTRUCTION INCLUDING SITE PREPARATION	C1	763 847 119.66	763 847 119.66	100.00%	527 067 259.01	521 447 662.21	98.93%
B32	TECHNOLOGY FOR ITER AND DEMO	C1	5 394 623.93	5 394 623.93	100.00%	3 486 161.07	3 486 161.07	100.00%
B33	TECHNOLOGY FOR BROADER APPROACH	C1	10 061 286.56	10 061 286.56	100.00%	7 408 182.60	7 408 182.60	100.00%
B35	EXTERNAL SUPPORT ACTIVITIES	C1	16 951 292.68	16 951 292.68	100.00%	10 564 536.03	10 564 536.03	100.00%
B36	OTHER OPERATIONAL EXPENDITURE	C1	5 504 749.95	5 504 749.95	100.00%	2 877 605.07	2 877 605.07	100.00%
Total Title 3			801 759 072.78	801 759 072.78	100.00%	551 403 743.78	545 784 146.98	98.98%
Total C1			863 952 388.28	863 952 388.28	100.00%	613 597 059.28	603 209 026.04	98.31%

Fund Source: C4 - Internal assigned revenues (EUR)

Official Budget Item	Budget Line Description	Fund Source	Commitment			Payment		
			Credit Com Amount (1)	Commitment Accepted Amount (2)	% Committed (2)/(1)	Credit Pay Amount (4)	Payment Accepted Amount (5)	% Paid (5)/(4)
A13	MISSION EXPENSES	C4	771.46	771.46	100.00%	771.46	771.46	100.00%
A15	TRAINING	C4	569.53	569.53	100.00%	569.53		
A19	OTHER STAFF RELATED EXPENDITURE	C4	5 633.50	5 633.50	100.00%	5 633.50	5 406.00	95.96%
Total Title 1			6 974.49	6 974.49	100.00%	6 974.49	6 177.46	88.57%
A21	RENTAL OF BUILDINGS AND ASSOCIATED COSTS	C4	14 046.61	14 046.61	100.00%	14 046.61	2 284.51	16.26%
A22	INFORMATION, COMMUNICATION TECHNOLOGY AND DATA PROCESSING	C4	3 565.00	3 565.00	100.00%	3 565.00		
A24	CURRENT ADMINISTRATIVE EXPENDITURE	C4	1 607.40	1 607.40	100.00%	1 607.40		
Total Title 2			19 219.01	19 219.01	100.00%	19 219.01	2 284.51	11.89%
B31	ITER CONSTRUCTION INCLUDING SITE PREPARATION	C4	209 726.45	209 726.45	100.00%	209 726.45	209 726.45	100.00%
B36	OTHER OPERATIONAL EXPENDITURE	C4	608.27	608.27	100.00%	608.27		
Total Title 3			210 334.72	210 334.72	100.00%	210 334.72	209 726.45	99.71%
Total C4			236 528.22	236 528.22	100.00%	236 528.22	218 188.42	92.25%

Fund Source: C5 - Carried-over internal assigned revenues (EUR)

No appropriations under the Fund Source C5

Total C5			0.00	0.00	-	0.00	0.00	-
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Fund Source: C8 - Carried over credits from previous years (EUR)

Official Budget Item	Budget Line Description	Fund Source	Commitment			Payment		
			Credit Com Amount (1)	Commitment Accepted Amount (2)	% Committed (2)/(1)	Credit Pay Amount (4)	Payment Accepted Amount (5)	% Paid (5)/(4)
A11	SALARIES AND ALLOWANCES FOR EXTERNAL PERSONNEL	C8	161 358.84	137 527.06	85.23%	161 358.84	137 527.06	85.23%
A12	EXPENDITURE RELATING TO STAFF RECRUITMENT	C8	31 514.94	15 830.49	50.23%	31 514.94	15 830.49	50.23%
A13	MISSION EXPENSES	C8	85 642.41	29 204.77	34.10%	85 642.41	29 204.77	34.10%
A14	SOCIO-MEDICAL INFRASTRUCTURE	C8	154 116.51	61 940.69	40.19%	154 116.51	61 940.69	40.19%
A15	TRAINING	C8	402 687.49	326 748.94	81.14%	402 687.49	326 748.94	81.14%
A17	RECEPTIONS, EVENTS AND REPRESENTATION	C8	60.00	0.00	0.00%	60.00		
A18	SOCIAL WELFARE	C8	33 079.75	32 080.75	96.98%	33 079.75	32 080.75	96.98%
A19	OTHER STAFF RELATED EXPENDITURE	C8	105 766.74	47 069.53	44.50%	105 766.74	47 069.53	44.50%
Total Title 1			974 226.68	650 402.23	66.76%	974 226.68	650 402.23	66.76%

Fund Source: C8 - Carried over credits from previous years (EUR)

(cont'd)

Official Budget Item	Budget Line Description	Fund Source	Commitment			Payment		
			Credit Com Amount (1)	Commitment Accepted Amount (2)	% Committed (2)/(1)	Credit Pay Amount (4)	Payment Accepted Amount (5)	% Paid (5)/(4)
A21	RENTAL OF BUILDINGS AND ASSOCIATED COSTS	C8	403 940.71	328 969.60	81.44%	403 940.71	328 969.60	81.44%
A22	INFORMATION, COMMUNICATION TECHNOLOGY AND DATA PROCESSING	C8	1 402 671.09	1 351 210.22	96.33%	1 402 671.09	1 351 210.22	96.33%
A23	MOVABLE PROPERTY AND ASSOCIATED COSTS	C8	154 312.15	138 989.93	90.07%	154 312.15	138 989.93	90.07%
A24	CURRENT ADMINISTRATIVE EXPENDITURE	C8	211 045.25	158 466.51	75.09%	211 045.25	158 466.51	75.09%
A25	POSTAGE / TELECOMMUNICATIONS	C8	170 107.08	68 951.51	40.53%	170 107.08	68 951.51	40.53%
A26	MEETING EXPENSES	C8	56 369.53	47 160.29	83.66%	56 369.53	47 160.29	83.66%
A28	INFORMATION AND PUBLISHING	C8	1 292.70	357.08	27.62%	1 292.70	357.08	27.62%
A29	OTHER INFRASTRUCTURE AND OPERATING EXPENDITURE	C8	161 472.22	82 003.36	50.78%	161 472.22	82 003.36	50.78%
Total Title 2			2 561 210.73	2 176 108.50	84.96%	2 561 210.73	2 176 108.50	84.96%
B31	ITER CONSTRUCTION INCLUDING SITE PREPARATION	C8	1 027 942 939.56	979 449 101.37	95.28%	Payment appropriations under C1 Fund source		
B32	TECHNOLOGY FOR ITER AND DEMO	C8	4 137 055.51	3 405 102.46	82.31%			
B33	TECHNOLOGY FOR BROADER APPROACH	C8	8 742 106.67	8 587 325.27	98.23%			
B35	EXTERNAL SUPPORT ACTIVITIES	C8	16 596 386.93	15 366 125.08	92.59%			
B36	OTHER OPERATIONAL EXPENDITURE	C8	1 521 737.18	855 952.97	56.25%			
Total Title 3			1 058 940 225.85	1 007 663 607.15	95.16%			
Total C8			1 062 475 663.26	1 010 490 117.88	95.11%	3 535 437.41	2 826 510.73	79.95%

Fund Source: C9 - Carried over credits from previous years (EUR)

A22	INFORMATION, COMMUNICATION TECHNOLOGY AND DATA PROCESSING	C9	366.56	0.00	0.00%			
Total Title 2			366.56	0.00	0.00%			
Total C9			366.56	0.00	0.00%	0.00	0.00	-

Fund Source: R0 - Assigned revenues (EUR)

Official Budget Item	Budget Line Description	Fund Source	Commitment			Payment		
			Credit Com Amount (1)	Commitment Accepted Amount (2)	% Committed (2)/(1)	Credit Pay Amount (4)	Payment Accepted Amount (5)	% Paid (5)/(4)
A27	RUNNING COSTS IN CONNECTION WITH OPERATIONAL ACTIVITIES	R0	33 161.55	33 161.55	100.00%	33 161.55	2 688.00	8.11%
Total Title 2			33 161.55	33 161.55	100.00%	33 161.55	2 688.00	8.11%
B41	ITER CONSTRUCTION - ITER HOST STATE CONTRIBUTION	R0	430 590 850.00	430 590 850.00	100.00%	129 100 000.00	127 715 100.01	98.93%
B42	ACTIVITIES LINKED TO ITER ORGANIZATION	R0	39 923 900.14	36 275 958.49	90.86%	16 929 155.78	10 613 351.30	62.69%
B43	OTHER EARMARKED EXPENDITURE	R0	1 399 515.87	1 399 515.87	100.00%	1 399 515.87	662 987.97	47.37%
Total Title 4			471 914 266.01	468 266 324.36	99.23%	147 428 671.65	138 991 439.28	94.28%
Total R0			471 947 427.56	468 299 485.91	99.23%	147 461 833.20	138 994 127.28	94.26%

Fig. 43 Budget Implementation – Details by Fund Source

8.5. 2021 Establishment Plan

Function group and grade	Budget 2021			
	Authorised under the EU Budget		Actually filled as of 31/12/2021	
	Permanent posts	Temporary posts	Permanent posts	Temporary posts
AD 16				
AD 15		1		1
AD 14	5	3	2	
AD 13	13	10	7	4
AD 12	14	21	10	19
AD 11	2	29	4	15
AD 10		33		32
AD 9		42	9	58
AD 8	1	33	1	23
AD 7	2	21		23
AD 6	1	12	1	20
AD 5				
AD TOTAL	38	205	34	195
AST 11	6		1	
AST 10			1	
AST 9	4	1	2	
AST 8	1	2	2	
AST 7		5	1	2
AST 6		9		10
AST 5		8	4	7
AST 4		1	1	6
AST 3			1	6
AST 2				
AST 1				
AST TOTAL	11	26	13	31
AST/SC TOTAL				
TOTAL	49	231	47	226
GRAND TOTAL	280		273	

Fig. 44 Budget 2021 Establishment Plan

9. Glossary and Abbreviations

ABAC	Accrual Based Accounting (accounting system used by F4E and managed by the EC).
Accounts payable	Organisation's current payables due within one year. Accounts payable are current liabilities.
Accounts receivable	Organisation's current receivables due within one year. Accounts receivable are current assets
Accrual accounting	Accounting methodology that recognises income when it is earned and expenses when they occur, rather than when they are actually received or paid, as opposed to cash accounting.
Actual = Actual amounts	Budget outturn = Budget execution = Budget implementation
Assets	Assets are items owned by an individual or an organisation, which have commercial or exchange value. Assets may consist of specific property or claims against others.
BA	Broader Approach
Cash accounting	Accounting methodology based on cash flows, i.e. transactions are recognised when cash is received or paid, as opposed to accrual accounting.
Current asset	The group of assets considered to be liquid in that they can be turned into cash within one year.
Current liability	Liabilities to be paid/settled within one year of the balance sheet date. (e.g. vendor's payables, etc.).
DI	Direct implementation for tasks requested by IO
EaC	Estimate at Completion
EC	European Commission
EPB	Executive Project Board
EU	European Union
External assigned revenues	Dedicated revenue received to finance specific items of expenditure
FR	Financial regulation
Financial statements	Written reports which quantitatively describe the financial health of an organisation. They comprise the Statement of Financial Performance, the Balance Sheet, the Cash Flow Statement, the Statement of Changes in Net Assets (capital) and the explanatory notes.
GB	Governing Board
Imprest account	Bank accounts and/or cash at hand used for the payment of low value expenses.
Internal assigned revenues	Funds received for specific assigned operations and activities from amounts recovered.
IO	ITER Organisation
Liability	A financial obligation, debt, claim, payable or potential loss.
NCR	Non conformity Report is a document issued by the supplier, F4E or the Customer detailing a condition that does not comply with a specified requirement.
PA	Procurement Arrangement: the PA between F4E and IO define the F4E deliverables to IO as well as the credit allocation scheme for each deliverable under the ITER unit of account.
PCR	Project Change Request
RAL	Commitments resulting in payment appropriations remaining to be paid.
TB	Tender Batches
WP	Annual Work Programme