DECISION OF THE GOVERNING BOARD ADOPTING

THE 2015 EDITION OF THE RESOURCE ESTIMATES PLAN

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

HAVING REGARD to the Statutes annexed to the Council Decision (Euratom) No 198/2007 of 27 March 2007 establishing the European Joint Undertaking for ITER and the Development of Fusion Energy (hereinafter "Fusion for Energy") and conferring advantages upon it[1], amended with the Council Decision (Euratom) 2015/224 of the 10 February 2015[2], (hereinafter "the Statutes") and in particular Article 6(3)(d) and Article 11 thereof,

Having regard to the Financial Regulation of the Joint Undertaking[3] adopted by the Governing Board on 22 October 2007 (hereinafter "the Financial Regulation"), last amended on 19 March 2015 [4];

Having regard to the comments and recommendations of the Committee(s) on the proposal for the resource estimates plan,

Whereas:

(1) The Director should, in accordance with Article 8(4)(e) of the Statutes, draw up the resource estimates plan for a period of five years;

(2) The Administration and Management Committee (AMC) should, in accordance with its mandate laid down in its Rules of Procedure[5], comment on and make recommendations to the Governing Board on the proposal for the resource estimates plan drawn up by the Director;

(3) The Governing Board should adopt the resource estimates plan.

THE GOVERNING BOARD OF FUSION FOR ENERGY HAS ADOPTED THIS DECISION:

Article 1

The 2015 Edition of the Resource Estimates Plan of Fusion for Energy annexed to this Decision is hereby adopted.

Article 2

This Decision shall have immediate effect.

Done at Barcelona, 3 December 2015

For the Governing Board
Joaquin Sanchez
Acting Chair of the Governing Board

Romina Bemelmans
Secretary of the Governing Board

[1] O.J. L 90 , 30.03.2007, p. 58.
[2] O.J. L37 13/.2.2015 p 8.
[3] F4E(07)-GB03-11 Adopted 22/10/2007
[4] F4E(15)-GB31-09.8 Adopted 19/03/2015
[5] F4E(15)-GB31-09.5 Adopted 19/03/2015

4.3 Estimates of revenue, expenditure and staffing for 2016 and 2017 budgets

4.3.1 The Revenue and Expenditure

The statements of revenue and expenditure for the budget of the 2 following years are:

	(EUR)	2016 Budget		2017 Budget	
		Commitment Appropriations	Payment Appropriations	Commitment Appropriations	Payment Appropriations
Revenue	Euratom operational contribution	275 475 092.00	500 000 000.00	268 694 000.00	370 140 000.00
	Euratom administrative contribution	44 737 000.00	44 737 000.00	48 600 000.00	48 600 000.00
	ITER Host State contribution	130 000 000.00	120 000 000.00	145 000 000.00	125 000 000.00
	Membership contribution	4 600 000.00	4 600 000.00	4 860 000.00	4 860 000.00
	Sub Total Yearly Contribution	***454 812 092.00***	***669 337 000.00***	***467 154 000.00***	***548 600 000.00***
	Euratom operational contribution recovered from previous years	0.00	27 260 845.87	96 000 000.00	0.00
	Euratom administrative contribution recovered from previous years	1 028 046.01	1 028 046.01	0.00	0.00
	Other revenue	0.00	0.00	0.00	0.00
	Total Revenue	**455 840 138.01**	**697 625 891.88**	**563 154 000.00**	**548 600 000.00**
Expenditure	Administrative Expenditure Title 1, Staff	40 807 000.00	40 807 000.00	41 790 000.00	41 790 000.00
	Administrative Expenditure Title 2, Other	6 693 000.00	6 693 000.00	6 810 000.00	6 810 000.00
	Sub Total Administrative expenditure	47 500 000.00	47 500 000.00	48 600 000.00	48 600 000.00
	ITER Construction	385 632 138.01	615 925 891.88	462 598 000.00	454 300 000.00
	Technology for ITER	11 500 000.00	20 000 000.00	38 100 000.00	28 000 000.00
	Technology for BA and DEMO	6 708 000.00	9 200 000.00	8 856 000.00	12 700 000.00
	Other Expenditure	4 500 000.00	5 000 000.00	5 000 000.00	5 000 000.00
	Total Expenditure	**455 840 138.01**	**697 625 891.88**	**563 154 000.00**	**548 600 000.00**

Notes:

- The annual budgets do not take into consideration the appropriations carried over from the previous year, already adopted by the Governing Board with the previous budget.
- The detailed expenditure will be set out in the corresponding budgets and work programmes.

3.2.2. 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, excluding expenditure related to Transportation, Test Blanket Modules and administrative expenditure.

The precise scope, conditions and the global amount of the French contribution for the ITER construction phase have been established in a formal exchange of letters between France and the European Commission in 2011[9].

The revenue received from France is earmarked to ITER construction.

3.2.3. The Membership Contributions (F4E Members except Euratom)

The Annual Membership Contribution is established and adopted annually within the budget. It corresponds to 10% of the administrative budget calculated at the time of the adoption of the previous edition of the REP.

The individual contribution of each member is composed of:

(a) a minimum contribution of 0.1% of the total amount of annual membership contributions and,

(b) an additional contribution calculated in proportion to the Euratom financial participation (excluding JET) in the Member's expenditure in the framework of the Community Fusion research programme in the year before last.

The revenue from the Membership contributions is not earmarked.

3.2.4. Reserve Fund

The Revenue from the Reserve Fund managed by ITER Organization is assigned to the implementation of change orders which take place in the framework of the contractual relationships between the owner and the various suppliers.

3.3. The Expenditure

The F4E expenditure is divided in operational and administrative expenditure, for projects and running cost respectively.

3.3.1. The Operational Expenditure

The operational expenditure corresponds to F4E tasks discharging Euratom obligations regarding:

- the contribution of Euratom to the ITER International Fusion Energy Organisation, in accordance with the ITER Agreement,
- the contribution of Euratom to the Broader Approach activities, in accordance with the Broader Approach Agreement with Japan,
- the preparation and coordination of a programme of activities in preparation for the construction of a demonstration fusion reactor (DEMO).

F4E's activities are grouped under two headings:

The ITER project represents the core activity of F4E and consists of:

- the tasks related to the ITER construction phase according to the Procurement Arrangements and Task Agreements signed with ITER Organisation,
- the contribution in cash to ITER Organization to ensure the financing for its management, the research and development and for the participation to the ITER fund,
- the contribution in cash to Japan within the frame of the transfer of procurement responsibilities from Euratom to Japan,
- the ITER site support activities.

The Technology project groups the R&D activities necessary for ITER and Broader Approach:

- technology for ITER and DEMO, to allow extra R&D activities, in particular related to the completion of specification by ITER and the preparation of DEMO,

[9] Contribution financière française à la construction d'ITER - Letter from Mr Bigot to Ms Goeghegan-Quinn and Mr Oettinger on 08/09/11 and reply on 17/11/11

- technology for Broader Approach corresponding to the Euratom contribution managed by F4E for IFMIF-EVEDA, the IFERC at Rokkasho and the JT60 Tokamak,
- technology for IFMIF construction: p.m.

3.3.2. The Administrative Expenditure

Administrative expenditure related to the functioning and operating costs of F4E is mainly made up of the Euratom contribution.

4. BUDGET FORECASTS AND CEILING

4.1. Overall Estimates of Revenue and Expenditure (2007-2041)

The total resources (2007-2041) necessary for F4E to carry out its tasks are divided into two periods:

(1) the ITER construction phase and implementation of the BA activities,

In its July 2010 conclusion the Council of the European Union fixed the overall budget to EUR 6.6 billion in 2008 value for the ITER construction period, until end of 2020 (including DEMO and Broader Approach),

(2) the operation and decommissioning of ITER, the possible construction and operation of IFMIF and a programme of activities in preparation for DEMO.

The estimates based on the 2001 final design are 1 278.4 kIUA[10] for the ITER operation phase and EUR 298.6 million (value 2005) for the decommissioning and de-activation phase.

4.2. Estimates of Revenue and Expenditure for the Period 2007-2020

The estimates of revenue and expenditure are detailed in the three tables below:

- table 1: Expenditure in commitment appropriations. This table provides the correspondence between the fixed 2008 value as adopted by the Council and the successive annual budgets. It reflects the amount of contracts placed or to be placed each year,
- table 2: Expenditure in payment appropriations reflects the actual implementation of the projects through the execution or forecasts of payments to third parties. This table is provided in current values only,
- table 3: Revenue in commitment and payment appropriations. Provided in current values only, this table details the yearly contributions from Euratom, France and the F4E Members.

4.2.1. The estimate of revenue

Euratom contribution:

As mentioned above, the European Council has fixed the global amount deemed necessary for all F4E activities during the ITER construction phase to EUR 6.6 billion (2007-2020), expressed in 2008 value.

This envelope was defined in commitment appropriation and the corresponding yearly resources have been calculated from the 2008 value in current value. A fixed annual escalation rate of 2.0% was applied to the estimated cost of the contracts based on their average duration and payment scheme, as defined in the 2011 occurrence of the REP. The result is a 2.6% escalation rate applied to operational expenditure (except experts and legal support), while the administrative expenditure of annual nature is based on the standard 2% escalation rate.

The yearly breakdown of the Euratom contribution until 2020 was established with the Legal Financial Statement accompanying the Council Decision (2013/791/Euratom), which has been slightly adjusted with time.

Note: The delays in the implementation of the annual budgets, in particular with the postponement of EUR 500 million from the 2015 to the 2018 to 2020 budget make the total foreseen envelope lower than the EUR 6.6 billion $_{(2008)}$ deemed necessary, due to yearly escalation effect. F4E requests to receive a confirmation to this regard from Euratom.

ITER Host State Contribution:

[10] IUA (ITER Unit of Account with 1 IUA= 1.2889 kEUR (2001 Conversion rate)

Based on the Council conclusions mentioned above, the ITER Host State contribution is strictly earmarked to ITER Construction and represents EUR 1 168.0 million (2008 constant value) or 20% of the cost of ITER construction according to the perimeter of contribution already mentioned (Excluding Broader Approach, Transportation, Test Blanket Modules and Administrative Expenditure). This contribution could be adjusted with the agreement of French Authorities to the actual cost for the domain of participation of the ITER Host State.

Membership Contribution:

The annual calculation of this contribution is based on 10% of the administrative expenditure, as defined at the chapter 4.3 of the previous edition of the REP. This earlier stage reference avoids changes along the budgetary procedure, allowing the members to plan in advance their contribution.

To be noted, from 2016 onwards, the breakdown by member will be established by Euratom on the basis of the figures provided by EUROfusion, in the respect of frame defined in F4E statutes.

4.2.2. Commitment appropriations made available again

According to the annuality principle of the F4E Financial Regulation, unused appropriations at the end of each year are cancelled, as well as de-commitments (cancellation of budgetary commitments).

The F4E Financial Regulation foresees the possibility to make those appropriations available again in subsequent budgets according to the needs for the project.

Surely, the following considerations impose keeping the EUR 6.6 billion (2008) budget up to 2020 and so to recover all cancelled appropriations;

- The future increase of the cash contribution to ITER IO. Due to the implementation of the IO Reserve Fund dedicated to the project changes financing and to the possible increase in resources foreseen for the machine assembly.
- Possible increase of cost of the in-kind procurements. Even if cost containment measures are used, the evolution of both the design and the manufacturing of components can bring an increase of the costs. This includes also the unavoidable obligation to comply with the requests issued by the Nuclear French Safety Authority;
- Possible impact of cost risks The analysis of the Estimate Cost at Completion (EAC) for the EU in-kind procurements has also identified a number of cost risks that, if materialized, will have an impact on the costs, despite mitigation actions. Among them, one category is represented by the cost claims for existing contracts. Delays in the building contract execution caused by IO/F4E late delivery of input data and other similar situations may trigger claims from the companies that will have to be resolved rapidly so as not to impact the schedule.

It should be noted this financial mechanism applies to operational annual budget of F4E, to the exclusion of Assigned Revenue (ITER Host State contribution) and administrative expenditure, both following specific rules.

The annual amounts cancelled and to be made available again later are detailed in the table 4.

4.2.3. The Estimate of expenditure

The operational expenditure for the ITER project:

The integrated activities for each system and financed by the F4E operational budget with the profile indicated in this document aim at the achievement of the following targets.

<u>Magnets</u>

- Ten toroidal field coils and 20% of the Nb3Sn conductor to be used in the toroidal field coils,
- Five poloidal field coils and 11% of NbTi conductor for the poloidal field coils,
- Nine fibreglass composite pre-compression rings,
- Toroidal field conductor and poloidal field conductor.

<u>Vacuum Vessel</u>

- Seven sectors of the vacuum vessel.

<u>Blanket</u>

- Blanket first wall: 48.4% of the first wall panels corresponding to the normal heat flux first wall ;
- Blanket cooling manifold.

Divertor

- Divertor inner vertical target,
- Divertor cassette bodies and integration of plasma-facing components,
- Divertor rails.

Remote Handling

- Divertor Remote Handling System DRHS,
- Cask and Plug Remote Handling System CPRHS,
- In-Vessel Viewing System IVVS,
- Neutral Beam Remote Handling System NBRHS.

Vacuum and Fuelling

- Warm regeneration lines front-end cryodistribution with cold valve boxes, torus and cryostat cryopumps, cryopumps for the neutral beam system and leak detection and localisation system.

Tritium System

- Tritium plant consisting of the water detritiation system (WDS) and the hydrogen isotope separation system (ISS).
- Waste Management System.

Cryoplant

- Liquid nitrogen (LN2) plant and auxiliary systems, approximately one-half of the Cryoplant.

Electrical Power Distribution

- Power Supplies — pulsed power and steady state power supplies.

Ion Cyclotron Antenna

- Ion cyclotron resonance heating system (equatorial port plug incorporating one ion cyclotron antenna).

Electron Cyclotron Upper launcher and Electron Cyclotron Power Sources and Power Supplies

- Electron cyclotron resonance heating system (four upper port plugs incorporating launchers as Primary Confinement System), 32% of the gyrotron sources and 67% of the power supplies.

Neutral Beam System

- Neutral beam assembly and testing,
- Beam source and high voltage bushings,
- Beam line components,
- Pressure vessel and magnetic shielding,
- Active corrections and compensation coils,
- Neutral beam power supplies and related systems,
- Neutral Beam Test Facility .

Diagnostics

- 13 distinct diagnostics systems; tokamak services (cables, feed-throughs and connectors on the ITER vessel); and integration of diagnostics into seven ports housing 22 diagnostics systems from Europe, ITER Organization and five other Domestic Agencies,
- F4E is responsible of about one quarter of the ITER Diagnostics.

Site and Buildings

- Poloidal Field Coil Winding Facility,
- Architecture engineering services,
- Tokamak excavation,
- Supply of anti-seismic bearings for Tokamak Complex,
- Building construction,
- Office buildings.

Radiological Environmental Protection Systems (REMS)

- Radiological and Environmental Monitoring Systems.

Waste Treatment and Storage

- Radwaste Building Process Equipment for Low and Intermediate level-short lived, solid and liquid radwaste,
- Site Services Building Process Equipment, including equipment devoted to the treatment and storage of toxic and non-toxic-non-radioactive wastes.

Test Blanket Modules (non-credited)

- First HCLL/HCPB TBM and its radiation shield,
- Full set of Ancillary Systems connected to a TBM, i.e for each TBM: Helium Cooling System, Tritium Extraction System, Coolant Purification System; and, specifically for the HCLL TBM, the PbLi loop,
- TBS Data Acquisition & Control Systems,
- Ancillary Equipment Units structures,
- Maintenance/inspection tools and equipment that are specific to only one TBS (non-standard for all TBS);
- Support to Assembly/installation of TBS in ITER,
- Shipping Cask for transport of irradiated TBMs (design only at this stage).

The operational expenditure for the Broader Approach project:

Under the Broader Approach Agreement, Euratom contributes a total of 500 kBAUA[11] of which 440 kBAUA are provided in kind by Voluntary Contributors as shown in the following figures. These revenue and expenditure are dealt with by each EU Member State participating to this programme.

The remainder is provided by Euratom through F4E as Implementing Agency in the Broader Approach Agreement and are foreseen in the direct revenue.

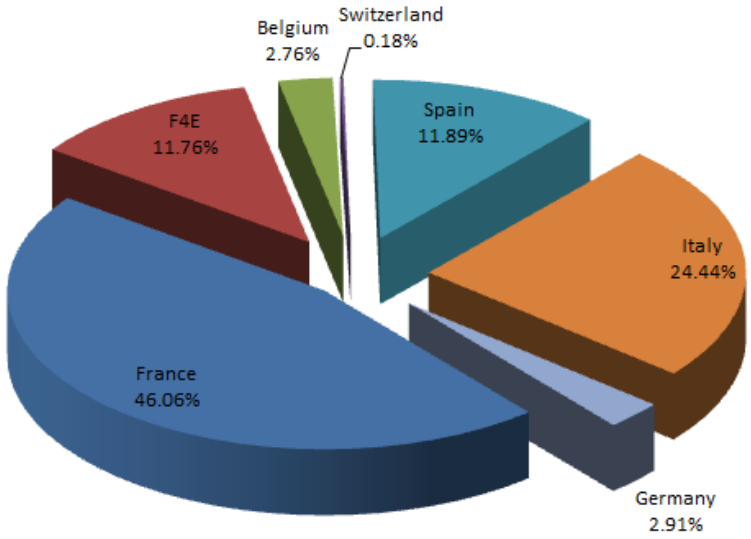

Chart 1: BA contribution by Members

The expenditure is detailed in the Broader Approach work programme adopted by its Steering Committee.

The administrative expenditure:

This expenditure is recurrent and mainly based on the establishment plan (salaries).

[11] BAUA (Broader Approach Units of Account with 1 BAUA = 678 € 2005 values)

Table 1: F4E Detailed Expenditure in Commitment Appropriation for the ITER construction phase

F4E - Expenditure Commitment appropriations	*< 2007 Preparation*	*2007-2011 FP VII*	*2012-2013 FP VII +2*	*2014-2020*	*TOTAL*
Constant Value - MEUR$_{(2008)}$	44.472	1 349.318	1 888.304	3 284.035	6 566.128
Current Value - MEUR	42.129	1 405.934	2 114.288	4 091.945	7 653.942

	Constant Value MEUR$_{(2008)}$	< 2007 Final Execution	2007 Executed	2008 Executed	2009 Executed	2010 Executed	2011 Executed	2012 Executed	2013 Executed	2014 Executed	2015 Budget	2016 Budget	2017 Draft Budget	2018 Indicative Forecast	2019 Indicative Forecast	2020 Indicative Forecast	>2020 Indicative Forecast	*TOTAL*
Commitment Appropriations	**ITER Construction**	44.472	76.444	158.059	272.124	364.317	339.046	1 017.582	785.210	729.884	327.621	314.047	367.179	357.291	337.583	339.591	-	5 830.449
	Technology	-	-	3.995	16.236	8.163	6.767	1.765	9.205	18.181	20.633	14.828	37.270	36.360	45.689	34.558	-	253.650
	Technology for ITER	-	-	*3.883*	*6.360*	*2.310*	*6.148*	*0.716*	*7.100*	*8.655*	*10.731*	*9.365*	*30.241*	*32.492*	*36.290*	*34.558*	-	*188.850*
	Technology for BA, DEMO & IFMIF	-	-	*0.112*	*9.875*	*5.854*	*0.619*	*1.049*	*2.106*	*9.526*	*9.901*	*5.463*	*7.029*	*3.868*	*9.398*	-	-	*64.800*
	Other Expenditure	-	-	*0.452*	*0.431*	*0.714*	*1.624*	*1.062*	*0.872*	*1.990*	*3.918*	*3.841*	*4.184*	*4.102*	*4.021*	*3.942*	-	*31.153*
	F4E Administration	-	1.135	13.884	23.783	28.285	33.859	36.441	36.167	38.697	39.413	40.541	40.666	40.361	40.052	37.592	-	450.877
	F4E Total Budget	44.472	77.579	176.390	312.574	401.479	381.295	1 056.850	831.454	788.753	391.585	373.256	449.299	438.114	427.345	415.683	-	6 566.128

	Current Value MEUR	< 2007 Final Execution	2007 Executed	2008 Executed	2009 Executed	2010 Executed	2011 Executed	2012 Executed	2013 Executed	2014 Executed	2015 Budget	2016 Budget	2017 Draft Budget	2018 Indicative Forecast	2019 Indicative Forecast	2020 Indicative Forecast	>2020 Indicative Forecast	*TOTAL*
Commitment Appropriations	**ITER Construction**	42.129	74.456	158.059	279.199	383.507	366.185	1 127.643	892.735	851.409	392.106	385.632	462.598	461.845	447.715	462.087	-	6 787.306
	Technology	-	-	3.995	16.658	8.593	7.308	1.956	10.466	21.208	24.694	18.208	46.956	47.000	60.594	47.024	-	314.660
	Technology for ITER	-	-	*3.883*	*6.526*	*2.431*	*6.640*	*0.794*	*8.072*	*10.096*	*12.844*	*11.500*	*38.100*	*42.000*	*48.130*	*47.024*	-	*238.039*
	Technology for BA, DEMO & IFMIF	-	-	*0.112*	*10.132*	*6.162*	*0.669*	*1.162*	*2.394*	*11.112*	*11.850*	*6.708*	*8.856*	*5.000*	*12.465*	-	-	*76.621*
	Other Expenditure	-	-	*0.452*	*0.440*	*0.743*	*1.723*	*1.150*	*0.963*	*2.241*	*4.500*	*4.500*	*5.000*	*5.000*	*5.000*	*5.000*	-	*36.711*
	F4E Administration	-	1.113	13.884	24.258	29.428	35.932	39.445	39.932	43.579	45.273	47.500	48.600	49.200	49.800	47.676	-	515.619
	F4E Total Commitment	42.129	75.569	176.390	320.555	422.272	411.148	1 170.193	944.095	918.438	466.573	455.840	563.154	563.045	563.109	561.786	-	7 653.942

(12)(13)

[12] Escalation for current/2008 values: A 2.6% escalation rate is applied to operational contracts, the standard 2.0% rate is kept for administrative expenditure and Other operational expenditure

[13] From 2016 to 2020 the budget forecasts include commitments appropriation made available again from the cancelled appropriation in the implementation of the previous budgets

Table 2: F4E Detailed Expenditure in Payment Appropriation for the ITER construction phase

F4E - Expenditure Payment appropriations	*<2007*	*2007-2011 FP VII*	*2012-2013 FP VII +2*	*2014-2020*	*>2020*	*TOTAL*
Current Value - MEUR	**42.129**	**684.322**	**754.218**	**4 175.929**	**1 997.698**	**7 653.942**

Current Value - MEUR		< 2007 Final Execution	2007 Executed	2008 Executed	2009 Executed	2010 Executed	2011 Executed	2012 Executed	2013 Executed	2014 Executed	2015 Budget	2016 Budget	2017 Draft Budget	2018 Indicative Forecast	2019 Indicative Forecast	2020 Indicative Forecast	>2020 Indicative Forecast	*TOTAL*
Payment Appropriations	**ITER Construction**	**42.129**	**2.998**	**83.822**	**109.138**	**157.077**	**209.784**	**314.272**	**344.170**	**451.465**	**454.282**	**615.926**	**454.300**	**490.420**	**528.380**	**577.468**	**1 951.677**	**6 787.306**
	Technology	**-**	**-**	**0.112**	**1.361**	**4.293**	**9.207**	**6.469**	**7.563**	**11.350**	**21.500**	**29.200**	**40.700**	**39.500**	**51.600**	**47.300**	**44.505**	**314.660**
	Technology for ITER	*-*	*-*	*-*	*1.229*	*4.027*	*4.282*	*3.415*	*2.279*	*5.905*	*12.000*	*20.000*	*28.000*	*33.000*	*45.000*	*40.000*	*38.902*	*238.039*
	Technology for BA, DEMO & IFMIF	*-*	*-*	*0.112*	*0.132*	*0.266*	*4.925*	*3.054*	*5.285*	*5.445*	*9.500*	*9.200*	*12.700*	*6.500*	*6.600*	*7.300*	*5.603*	*76.621*
	Other Expenditure	*-*	*-*	*0.085*	*0.539*	*0.645*	*0.647*	*1.118*	*1.249*	*0.912*	*5.000*	*5.000*	*5.000*	*5.000*	*5.000*	*5.000*	*1.516*	*36.711*
	F4E Administration	**-**	**1.113**	**13.884**	**24.258**	**29.428**	**35.932**	**39.445**	**39.932**	**43.579**	**45.273**	**47.500**	**48.600**	**49.200**	**49.800**	**47.676**	**-**	**515.619**
	F4E Total Payment	**42.129**	**4.110**	**97.903**	**135.296**	**191.443**	**255.570**	**361.304**	**392.914**	**507.305**	**526.055**	**697.626**	**548.600**	**584.120**	**634.780**	**677.443**	**1 997.698**	**7 653.942**

Table 3: F4E Detailed Revenue in Commitment and Payment Appropriation for the ITER construction phase

F4E - Revenue - MEUR	*<2007*	*2007-2011 FP VII*	*2012-2013 FP VII +2*	*2014-2020*	*>2020*	*TOTAL*
Commitment appropriation	**42.129**	**1 545.163**	**2 266.377**	**3 800.273**	**0.000**	**7 653.942**
Payment appropriations	**42.129**	**788.298**	**692.619**	**4 131.267**	**1 999.629**	**7 653.942**

	Current Value MEUR	< 2007 Final Execution	2007 Executed	2008 Executed	2009 Executed	2010 Executed	2011 Executed	2012 Executed	2013 Executed	2014 Executed	2015 Budget	2016 Budget	2017 Draft Budget	2018 Indicative Forecast	2019 Indicative Forecast	2020 Indicative Forecast	>2020 Indicative Forecast	*TOTAL*
Commit ment Appropriations	Euratom Contribution	40.645	73.503	142.710	282.720	374.240	387.660	1 106.900	904.900	720.918	382.215	320.212	317.294	369.125	410.929	395.127	-	**6 229.097**
	France Contribution	1.484	2.658	48.945	61.200	66.500	90.700	141.200	105.000	170.000	64.000	130.000	145.000	145.000	140.000	57.118	-	**1 368.805**
	F4E Members contribution	-	-	2.683	2.890	3.400	3.835	3.900	4.300	4.400	4.390	4.600	4.860	4.920	4.980	4.768	-	**53.926**
	Internal revenue	-	-	0.978	0.252	0.105	0.186	0.069	0.109	0.210	0.207	-	-	-	-	-	-	**2.115**
	F4E Total Budget	42.129	76.160	195.315	347.062	444.245	482.381	1 252.069	1 014.309	895.528	450.813	454.812	467.154	519.045	555.909	457.013	-	**7 653.942**
Payment Appropriations	Euratom Contribution	40.645	1.453	123.500	131.450	207.600	226.166	261.240	245.002	421.101	386.678	544.737	418.740	449.200	499.800	547.676	1 724.111	**6 229.097**
	France Contribution	1.484	2.658	25.145	30.400	13.600	12.000	48.000	130.000	123.000	77.000	120.000	125.000	130.000	130.000	125.000	275.518	**1 368.805**
	F4E Members contribution	-	-	2.683	2.890	3.400	3.835	3.900	4.300	4.400	4.390	4.600	4.860	4.920	4.980	4.768	-	**53.926**
	Internal Revenue	-	-	0.865	0.364	0.105	0.186	0.069	0.109	0.210	0.207	-	-	-	-	-	-	**2.115**
	F4E Total Budget	42.129	4.110	152.193	165.104	224.705	242.187	313.208	379.411	548.711	468.275	669.337	548.600	584.120	634.780	677.443	1 999.629	**7 653.942**

Table 4: Revenue made available again from cancelled Commitment Appropriations

MEUR	<2007	2007-2011 FP VII	2012-2013 FP VII +2	2014-2020	>2020	TOTAL
Commitment appropriations	0.000	-59.148	-194.754	253.902	0.000	0.000

	Current Value MEUR	< 2007 Final Execution	2007 Executed	2008 Executed	2009 Executed	2010 Executed	2011 Executed	2012 Executed	2013 Executed	2014 Executed	2015 Budget	2016 Budget	2017 Draft Budget	2018 Indicative Forecast	2019 Indicative Forecast	2020 Indicative Forecast	>2020 Indicative Forecast	TOTAL
Corr Appl	Cancelled CA	-	0.591	0.877	11.058	3.983	52.398	109.519	85.235	0.054	-	-	-	-	-	-	-	263.716
	CA made available again	-	-	-	-	-	9.760	-	-	-	-	-	96.000	44.000	7.200	106.757	-	263.716
	Total	-	- 0.591	- 0.877	- 11.058	- 3.983	- 42.639	- 109.519	- 85.235	- 0.054	-	-	96.000	44.000	7.200	106.757	-	0.000

4.3 Estimates of revenue, expenditure and staffing for 2016 and 2017 budgets

4.3.1 The Revenue and Expenditure

The statements of revenue and expenditure for the budget of the 2 following years are:

	(EUR)	2016 Budget		2017 Budget	
		Commitment Appropriations	Payment Appropriations	Commitment Appropriations	Payment Appropriations
Revenue	Euratom operational contribution	275 475 092.00	500 000 000.00	268 694 000.00	370 140 000.00
	Euratom administrative contribution	44 737 000.00	44 737 000.00	48 600 000.00	48 600 000.00
	ITER Host State contribution	130 000 000.00	120 000 000.00	145 000 000.00	125 000 000.00
	Membership contribution	4 600 000.00	4 600 000.00	4 860 000.00	4 860 000.00
	Sub Total Yearly Contribution	***454 812 092.00***	***669 337 000.00***	***467 154 000.00***	***548 600 000.00***
	Euratom operational contribution recovered from previous years	0.00	27 260 845.87	96 000 000.00	0.00
	Euratom administrative contribution recovered from previous years	1 028 046.01	1 028 046.01	0.00	0.00
	Other revenue	0.00	0.00	0.00	0.00
	Total Revenue	**455 840 138.01**	**697 625 891.88**	**563 154 000.00**	**548 600 000.00**
Expenditure	Administrative Expenditure Title 1, Staff	40 807 000.00	40 807 000.00	41 790 000.00	41 790 000.00
	Administrative Expenditure Title 2, Other	6 693 000.00	6 693 000.00	6 810 000.00	6 810 000.00
	Sub Total Administrative expenditure	47 500 000.00	47 500 000.00	48 600 000.00	48 600 000.00
	ITER Construction	385 632 138.01	615 925 891.88	462 598 000.00	454 300 000.00
	Technology for ITER	11 500 000.00	20 000 000.00	38 100 000.00	28 000 000.00
	Technology for BA and DEMO	6 708 000.00	9 200 000.00	8 856 000.00	12 700 000.00
	Other Expenditure	4 500 000.00	5 000 000.00	5 000 000.00	5 000 000.00
	Total Expenditure	**455 840 138.01**	**697 625 891.88**	**563 154 000.00**	**548 600 000.00**

Notes:

- The annual budgets do not take into consideration the appropriations carried over from the previous year, already adopted by the Governing Board with the previous budget.
- The detailed expenditure will be set out in the corresponding budgets and work programmes.

4.3.2 The Establishment Plan

Following the request by the Governing Board for additional Staff[14], the European Commission, via an exchange of letter addressed to the Chair of F4E Governing Board[15], authorised 24 additional short-term positions of contractual agents which have been added to staff resources authorised for the 2015 budget.

The principle for the addition of 21 short-term temporary agents was also acknowledged for the 2016 budgetary procedure. Those positions are included in the F4E Establishment Plan.

F4E staffing, foreseen in authorized positions, is therefore the following:

	2015	**2016**	**2017**
AD Officials	40	40	40
AD Temporary	180	201	201
AST Officials	16	16	16
AST Temporary	26	26	26
Sub Total Establishment Plan	**262**	**283**	**283**
Contractual Agent (CA)	180	180	180
Seconded National Experts (SNE)	4	4	4
Total F4E Staff	**446**	**467**	**467**

[14] F4E(12)-GB28-00 – Summary of the Decisions from the 28th F4E Governing Board Meeting

[15] Letter from M. Oettinger and M. Dominik to M.Ward - Ref Ares(2014)/3517014 – 23/10/2014