



2018/2222(INI)

11.10.2018

AMENDMENTS

1 - 33

Draft report
Marian-Jean Marinescu
(PE627.719v01-00)

on the European Joint Undertaking for ITER and the Development of Fusion
Energy
(2018/2222(INI))

Amendment 1
Gerben-Jan Gerbrandy

Motion for a resolution
Recital A

Motion for a resolution

A. whereas fusion is expected to play an important role in the future European and global energy landscape as a potentially inexhaustible, safe, climate-friendly, environmentally responsible and economically competitive source of energy,

Amendment

A. whereas fusion is expected to play an important role in the future European and global energy landscape as a potentially inexhaustible, safe, climate-friendly, environmentally responsible and economically competitive source of energy, ***while recognising that there are still many uncertainties surrounding the development and success of fusion,***

Or. en

Amendment 2
Michèle Rivasi
on behalf of the Verts/ALE Group
Dario Tamburrano

Motion for a resolution
Recital A

Motion for a resolution

A. whereas fusion ***is expected to play an important*** role in the ***future*** European and global energy landscape ***as a potentially inexhaustible, safe, climate-friendly, environmentally responsible and economically competitive source of energy,***

Amendment

A. whereas fusion ***could in the very distant future play a hypothetical*** role in the European and global energy landscape;

Or. fr

Amendment 3
Flavio Zanonato

Motion for a resolution

Recital A

Motion for a resolution

A. whereas fusion is expected to **play an important role in the future European and global energy landscape as a potentially inexhaustible, safe, climate-friendly, environmentally responsible and economically competitive source of energy,**

Amendment

A. whereas fusion is expected to **be a viable energy source, potentially replacing fossil fuels as the main complement to renewable energy sources,**

Or. en

Amendment 4

Dominique Riquet

Motion for a resolution

Recital A

Motion for a resolution

A. whereas fusion **is expected to play an important** role in the future European and global energy landscape as a potentially inexhaustible, safe, climate-friendly, environmentally responsible and economically competitive source of energy,

Amendment

A. whereas fusion **could play a key** role in the future European and global energy landscape as a potentially inexhaustible, safe, climate-friendly, environmentally responsible and economically competitive source of energy,

Or. fr

Amendment 5

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution

Recital A a (new)

Motion for a resolution

Amendment

Aa. whereas, according to the latest IPCC special report on the impacts of

global warming of 1.5°C above pre-industrial levels, limiting global warming to 1.5°C will require a reduction in global emissions to ‘net zero’ in around 2050, so that fusion research will not make it possible to respond to global warming in time;

Or. fr

Amendment 6

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution

Recital B

Motion for a resolution

Amendment

B. whereas fusion is already delivering concrete opportunities for industry and is having a positive effect on jobs, economic growth and innovation, with a positive impact beyond the fields of fusion and energy,

deleted

Or. fr

Amendment 7

Răzvan Popa

Motion for a resolution

Recital B a (new)

Motion for a resolution

Amendment

Ba. whereas the Joint Undertaking coordinates scientific and technological research and development activities in the field of fusion;

Or. ro

Amendment 8

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution

Recital C

Motion for a resolution

C. whereas Europe *has* from the start *played* a leading role in the ITER project, developed in close collaboration with the non-European signatories to the ITER Agreement (the US, Russia, Japan, China, South Korea and India), and whereas the European contribution, channelled through the Joint Undertaking ‘Fusion for Energy’ (F4E), represents 45 % of the construction costs of the project,

Amendment

C. whereas *France persuaded* Europe *to spend the taxpayer’s money in such a way as* from the start *to play* a leading role in the ITER project, developed in close collaboration with the non-European signatories to the ITER Agreement (the US, Russia, Japan, China, South Korea and India), and whereas the European contribution, channelled through the Joint Undertaking ‘Fusion for Energy’ (F4E), represents 45 % of the construction costs of the project,

Or. fr

Amendment 9

Răzvan Popa

Motion for a resolution

Recital C a (new)

Motion for a resolution

Ca. whereas the European Union has created a Joint Undertaking for ITER and the Development of Fusion Energy for the purpose of managing the EU contribution to ITER;

Amendment

Or. ro

Amendment 10

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution
Recital D

Motion for a resolution

Amendment

D. *whereas the Commission proposal to amend Council Decision 2007/198/Euratom aims to secure funding for continued European participation in the ITER project for the whole duration of the next multiannual financial framework in order to provide continuity for the project aiming at key scientific breakthroughs in the development of fusion,*

deleted

Or. fr

Amendment 11
Dominique Riquet

Motion for a resolution
Recital D

Motion for a resolution

Amendment

D. whereas the Commission proposal to amend Council Decision 2007/198/Euratom aims to secure funding for continued European participation in the ITER project for the whole duration of the next multiannual financial framework in order to **provide** continuity for the project aiming at key scientific breakthroughs in the development of fusion,

D. whereas the Commission proposal to amend Council Decision 2007/198/Euratom aims to secure funding for continued European participation in the ITER project for the whole duration of the next multiannual financial framework in order to **guarantee** continuity for the project aiming at key scientific breakthroughs in the development of fusion **for civil use, which should ultimately facilitate the production of safe, viable energy which meets the objectives guaranteed by the Paris Agreement;**

Or. fr

Amendment 12
Dominique Riquet

Motion for a resolution
Recital D a (new)

Motion for a resolution

Amendment

Da. whereas this proposal provides for an application date of 1 January 2021, taking into account the notification by the United Kingdom of its intention to withdraw from the European Union and Euratom, in accordance with Article 50 of the Treaty on European Union, which was received by the European Council on 29 March 2017, and whereas, unless a withdrawal agreement lays down another date, or the European Council, in agreement with the United Kingdom, unanimously sets a different date, Union legislation will cease to apply to the United Kingdom as from 31 December 2020;

Or. fr

Amendment 13
Michèle Rivasi
on behalf of the Verts/ALE Group
Dario Tamburrano

Motion for a resolution
Paragraph -1 (new)

Motion for a resolution

Amendment

-1. Recalls that initially, in 2001, the construction costs of ITER were estimated to be around EUR 5.9 billion (2008 value), but that in 2010 this figure was adjusted to around EUR 16 billion (2008 value); notes that, on 12 July 2010, being aware of the risk of a budget overrun, the Council of the European Union limited the European contribution for the construction phase to EUR 6.6 billion (2008 value);

Or. fr

Amendment 14

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution

Paragraph -1 a (new)

Motion for a resolution

Amendment

-1a. Recalls the delay in the construction of this experimental reactor, because originally it was planned that ITER should be constructed by 2020, but in 2016 the ITER Council approved a new timetable for reaching First Plasma in December 2025, the earliest technically possible date for the construction of ITER;

Or. fr

Amendment 15

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution

Paragraph -1 b (new)

Motion for a resolution

Amendment

-1b. Recalls certain observations made by the European Court of Auditors in its report on the annual accounts of the European Joint Undertaking for ITER and the development of fusion energy for the financial year 2016^{1a}, in particular that:

– In June 2017, the Commission had issued a communication entitled ‘EU contribution to a reformed ITER project’^{1b}, seeking Parliament’s support and a mandate from the Council of the European Union to approve the new

baseline on behalf of Euratom;

– *Although there are no contingencies in the new baseline, the Commission considers in its Communication that a contingency margin of up to 24 months for the calendar and between 10% and 20% for the budget would be appropriate^{1c}. In addition, the measures taken to respect the budget ceiling of EUR 6.6 billion include in particular postponing the acquisition and installation of all components that are not essential to First Plasma. Although constructive steps have been taken to improve the management and control of the construction phase of the ITER project, there remains a risk of further cost overruns and further delays in the implementation of the project compared to the proposed new baseline;*

^{1a} OJ C 426, 12.12.2017, p. 32

^{1b} COM(2017) 319 final, 14.6.2017 (accompanied by Commission Staff Working Document SWD(2017) 232 final)

^{1c} Chapter V of COM(2017) 319 final, 14.6.2017 (accompanied by Commission Staff Working Document SWD(2017) 232 final)

Or. fr

Amendment 16
Michèle Rivasi
on behalf of the Verts/ALE Group
Dario Tamburrano

Motion for a resolution
Paragraph -1 c (new)

Motion for a resolution

Amendment

-1c. *Observes that, in April 2018, the US Department of Energy estimated the*

cost of ITER at USD 65 billion, i.e. three times the budget announced by the ITER Organisation^{1a}.

^{1a} Paul Dabbar, DOE undersecretary for science, provided the estimate to the US Senate Appropriations subcommittee on energy and water development on 11 April 2018.

<https://www.appropriations.senate.gov/hearings/review-of-the-dept-of-energy-and-nnsa-budget-requests-for-fy2019>

Or. fr

Amendment 17

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution

Paragraph -1 d (new)

Motion for a resolution

Amendment

-1d. Notes that, on 29 March 2017, the United Kingdom notified the European Council of its decision to withdraw from the European Union and from Euratom; recalls that the United Kingdom has up to now been a net contributor to the Union budget and, in particular, to the financing of the fusion research programme, including ITER; recalls that the United Kingdom was contributing to the funding of ITER; points out that, according to the Court of Auditors, an agreement ‘setting out the arrangements for its withdrawal ... may have a significant effect on the future activities of the F4E Joint Undertaking and the ITER project’^{1a}.

^{1a} OJ C 426, 12.12.2017, p. 34.

Or. fr

Amendment 18

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution

Paragraph -1 e (new)

Motion for a resolution

Amendment

-1e. *Stresses that, ‘as ITER is an experimental machine that will not work on a continuous basis, the energy produced will not be converted into electricity’^{1a} and that ‘ITER is not intended to feed the [electricity] grid’^{1b}; observes, therefore, that ITER will play no role in fighting climate change or in energy independence or the European electricity market;*

^{1a} *ref. ITER.org*

<https://www.iter.org/en/proj/inafewlines>

^{1b} *Mr Massimo Garribba, DG ENER, during consideration of the report by Mr Marinescu on the Joint Undertaking for ITER and the development of fusion energy, ITRE – 9 October 2018.*

Or. fr

Amendment 19

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution

Paragraph -1 f (new)

Motion for a resolution

Amendment

-1f. *Stresses that it is indicated in the IPCC Special Report on the impacts of global warming of 1.5°C above pre-*

industrial levels that ‘limiting global warming to 1.5°C would require rapid and large-scale transitions, that net global emissions of carbon dioxide (CO₂) of anthropic origin must be reduced by some 45% from 2010 levels by 2030, and that ‘net zero’ emissions must be attained around 2050^{1a}; concludes that, even if research into nuclear fusion may appear fascinating, it is utterly irrelevant, because if this project was ever successful, it would be too late to tackle climate change;

1a

https://ipcc.ch/pdf/session48/pr_181008_P48_spm_en.pdf

Or. fr

Amendment 20
Michèle Rivasi
on behalf of the Verts/ALE Group
Dario Tamburrano

Motion for a resolution
Paragraph -1 g (new)

Motion for a resolution

Amendment

-1g. Notes that project reactors require a great amount of lithium-6 obtained by means of nuclear enrichment from naturally occurring lithium, and that land-based lithium resources raise many issues, particularly of an environmental and economic nature; stresses that the production of tritium from lithium-6 in the ITER reactor and subsequent ones of the same type requires a large amount of beryllium, which is rare on Earth and extremely toxic and costly; concludes that deuterium/tritium fusion is neither ‘sustainable’ nor ‘inexhaustible’;

Or. fr

Amendment 21

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution

Paragraph -1 h (new)

Motion for a resolution

Amendment

-1h. Condemns the complete failure to take account of democratic institutions, particularly the opinion of the European Parliament; calls for decisions on nuclear issues from now on to be taken under the ordinary legislative procedure as provided for in the Treaty on the Functioning of the European Union (TFEU);

Or. fr

Amendment 22

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution

Paragraph -1 i (new)

Motion for a resolution

Amendment

-1i. Calls for a scientific audit of nuclear fusion by nuclear physicists not involved in nuclear fusion research;

Or. fr

Amendment 23

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution
Paragraph 1

Motion for a resolution

1. ***Welcomes*** the Commission proposal for a Council Decision amending Decision 2007/198/Euratom establishing the European Joint Undertaking for ITER and the Development of Fusion Energy and conferring advantages upon it (COM(2018)0445), ***which will provide the basis for the financing of the activities of the Joint Undertaking for the period 2021-2027 under the Euratom Treaty;***

Amendment

1. ***Dissociates itself from*** the Commission proposal for a Council Decision amending Decision 2007/198/Euratom establishing the European Joint Undertaking for ITER and the Development of Fusion Energy and conferring advantages upon it (COM(2018)0445);

Or. fr

Amendment 24
Flavio Zanonato

Motion for a resolution
Paragraph 1 a (new)

Motion for a resolution

1a. Regrets that the Council has not consulted the European Parliament on the approval of the Commission proposal (COM(2018)0445) and welcomes the Commission's stated intention as part of the State of the Union 2018 "to consider options for enhanced qualified majority voting and for a possible reform of the Euratom Treaty"; expects that such a reform would necessarily lead to co-legislative powers for the European Parliament;

Or. en

Amendment 25
Flavio Zanonato, Miroslav Poche

Motion for a resolution
Paragraph 1 b (new)

Motion for a resolution

Amendment

Ib. Stresses that the Euratom contribution to the Joint Undertaking for the period 2021-2027 should not be exceeded;

Or. en

Amendment 26
Flavio Zanonato, Miroslav Poche

Motion for a resolution
Paragraph 1 c (new)

Motion for a resolution

Amendment

Ic. Stresses that in order to avoid successive upward revisions of the projected cost of the project, to avoid delays in the expected dates of operational milestones and to ensure the highest possible degree of schedule reliability, the ITER Organisation should include a reasonable contingency on any revised schedule; supports, in this regard, the contingency of up to 24 months in terms of schedule and 10-20% in terms of budget proposed by the European Commission;

Or. en

Amendment 27
Flavio Zanonato

Motion for a resolution
Paragraph 1 d (new)

Motion for a resolution

Amendment

1d. Welcomes the new approach to Risk management taken by the ITER Organisation and encourages the ITER Council to further reduce the number of sub-committees, streamline their function and eliminate overlaps;

Or. en

Amendment 28

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution

Paragraph 2 – introductory part

Motion for a resolution

2. Calls on the Council to **approve** the Commission proposal **while introducing the following modifications:**

Amendment

2. Calls on the Council to **reject** the Commission proposal;

Or. fr

Amendment 29

Dominique Riquet

Motion for a resolution

Paragraph 2 – indent 5 a (new)

Motion for a resolution

Amendment

– include provisions in Article 5 and Annex III of the Statute of the Joint Undertaking ('Financial Regulation: general principles') enabling the Joint Undertaking to receive funding in the form of financial instruments in connection with blending operations implemented in accordance with the [InvestEU] Regulation,

Amendment 30

Michèle Rivasi

on behalf of the Verts/ALE Group

Dario Tamburrano

Motion for a resolution

Paragraph 2 – indent 7

Motion for a resolution

Amendment

– *include provisions regarding synergies and cooperation between ITER and the Euratom Research and Training Programme for the period 2021-2025,*

deleted

Or. fr

Amendment 31

Dominique Riquet

Motion for a resolution

Paragraph 2 – indent 7 a (new)

Motion for a resolution

Amendment

– *consider cooperation with small and medium-sized private disruptive players, such as start-ups experimenting with new approaches and technologies, in the research programme and the network of organisations designated in the field of scientific and technological fusion research;*

Or. fr

Amendment 32

Dominique Riquet

Motion for a resolution

Paragraph 2 – indent 8 a (new)

Motion for a resolution

Amendment

- *clarify the role and contribution of the United Kingdom in the light of its Euratom status, particularly with regard to potential participation in ITER,*

Or. fr

Amendment 33
Jaromír Kohlíček

Motion for a resolution
Paragraph 2 – indent 8 a (new)

Motion for a resolution

Amendment

- *include in the proposal a recommendation to investigate the further possible use of the materials currently being used in the ITER project*

Or. cs