SENATE RESOLUTION No. 14

STATE OF NEW JERSEY

219th LEGISLATURE

PRE-FILED FOR INTRODUCTION IN THE 2020 SESSION

Sponsored by:

Senator JOSEPH PENNACCHIO District 26 (Essex, Morris and Passaic)

SYNOPSIS

Urges Congress and President to increase funding for fusion energy research.

CURRENT VERSION OF TEXT

As reported by the Senate Environment and Energy Committee with technical review.



1	A SENATE RESOLUTION urging Congress and the President to
2	increase funding for fusion energy research.
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4	WHEREAS, Nuclear fusion is a method of producing energy by fusing
5	atoms of one or more elements together to create atoms of another
6	element; and
7	WHEREAS, Fusion requires temperatures of 150,000,000 degrees
8	Celsius, so successfully containing a fusion reaction has proven to
9	be a substantial engineering challenge; and
10	WHEREAS, Fusion promises to be a sustainable source of energy
11	which is environmentally benign, producing neither atmospheric
12	pollutants nor long-term radioactive waste; and
13 14	WHEREAS, Energy generation from fusion may result in improved global political stability, since it would represent an inexpensive,
15	long-term energy source; and
16	WHEREAS, New Jersey is a leader in fusion energy research, and it is
17	home to the Princeton Plasma Physics Laboratory (PPPL), one of
18	the foremost centers for fusion energy research in the world; and
19	WHEREAS, The PPPL currently houses one of the most powerful
20	electromagnets in the world, which is needed to contain the high-
21	temperature plasma that allows for fusion, and the design of the
22	PPPL is currently thought to be the top contender for practical
23	fusion energy production; and
24	WHEREAS, Advancing fusion research is not only important because
25	of its direct applications, it also requires the development of new
26	technologies and materials that have unexpected beneficial
27	applications in other fields; and
28	WHEREAS, There is also a growing interest in fusion from the private
29	sector, and increased funding for public-private partnership
30	ventures could lead to economic benefits to the State; and
31	WHEREAS, The International Thermonuclear Experimental Reactor
32 33	(ITER) – which, when completed, will be the world's largest magnetic confinement plasma physics experiment – is currently
34	under construction in France, and needs continued financial support
35	from the United States government in order to become operational;
36	and
37	WHEREAS, Congress should increase its appropriations to the Fusion
38	Energy Sciences program in the Department of Energy, in order to
39	support the PPPL, ITER, as well as private enterprises pursuing this
40	promising and potentially revolutionary technology; now, therefore,
41	
42	BE IT RESOLVED by the Senate of the State of New Jersey:
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44	1. This House urges Congress and the President to increase
45	funding for fusion energy research, in order to facilitate the
46	development of this promising energy source.

SR14 PENNACCHIO

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- Copies of this resolution, as filed with the Secretary of State,
 shall be transmitted by the Secretary of the Senate to the President
 of the United States, the Majority and Minority Leaders of the
- 4 United States Senate, the Speaker and Majority and Minority
- 5 Leaders of the United States House of Representatives, and each
- 5 Leaders of the Clinical States House of Representatives, and ca
- 6 member of the United States Congress elected from this State.