New Energy Times

June 17, 2018

Nick Holloway
Media Manager, Culham Centre for Fusion Energy

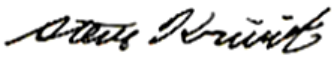
Dear Mr. Holloway,

A global misrepresentation of the 1997 results of JET and the projected results from ITER has occurred. Your organization has been a participant in this deception.

Ian Chapman, the current CCFE chief executive officer, and Steven Cowley, the previous chief executive officer, directly contributed to this deception.

I encourage you to have corrections made on the CCFE Web site (see following page) so that your organization's claims are described accurately and transparently for the public.

Kind regards,



Steven Krivit
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URL: http://www.ccfe.ac.uk/Fusion_power.aspx

STATEMENT: "ITER is the next major international fusion experiment and a crucial step towards commercial fusion energy. It is expected to prove the feasibility of electricity generation from fusion by releasing some 500 megawatts of fusion power (from a 50 megawatt input) for up to 500 seconds. It will be the first fusion experiment to produce net power – ten times more than the amount required to heat the plasma."

ISSUE #1: The claim that ITER will consume 50 MW to heat the plasma is misleading because it does not transparently communicate the distinction between input heating power consumed (150 MWe) and injected thermal power applied (50 MWth).

ISSUE #2: The statement that ITER is designed to produce 500 MW from a 50 MW input is false. According to its design specification, the ITER reactor is expected to produce about the same amount of power as put into the reactor. The projected gross thermal output power is 500 MW. The projected input electrical power is 300 MW. The projected output power will be 1.8 times more than the input power. But this is not the most accurate way to compare output to input. This calculation does not compare apples to apples. A more accurate method to compare the output to input is to convert the reactor's thermal output power (~500 MW) to the equivalent electrical output power at 40% efficiency. Using this method, the ITER reactor will not generate any net power.

ISSUE #3: Based on its design, ITER will disprove the feasibility of electricity generation from fusion. (Please see the detailed values and graph in Appendix A.)