

Subject: ITER Korea Project  
Date: Sun, 17 Dec 2017 14:38:32 -0800  
From: Steven B. Krivit  
To: kjjung

To: Kijung Jung, Director of ITER Korea Project

Dear Dr. Jung,

The ITER Korea Web site, at this page, <http://www.iterkorea.org/eng/0201>, says that ITER's "main contents" is "Developing and constructing a 500MW electricity-producing plant."

This is wrong twice, as I'm sure you will immediately recognize.

1. The 500 MW output will be heat, not electricity.
2. The maximum net thermal output of the reactor, based on the ITER design, will be 200 MWth, not 500 MWe or 500 MWth.

The ITER Korea Web site, at this page, <http://www.iterkorea.org/030101>, says that ITER's first goal is a "nuclear fusion experiment with heat output of 500 MW and energy amplification rate (Q) of 10 or more."

This is false and misleading because you do not disclose that the 10x gain is a Q-fusion value rather than a Q-engineering value. As a scientist, I'm sure you will agree on the importance of showing data clearly and disclosing key terms.

In the absence of your immediate indication in this sentence that the Q=10 is a Q-fusion value, and in the presence of your other statements, non-experts will think that the reactor (rather than the plasma) will demonstrate a 10x gain. This is a large exaggeration. Of course, the reactor gain (Q-engineering) will be only 1.6 thermal and 0.6 electric, not 10.

Kind regards,

Steven

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