ReNeW

Research Needs Workshop

What?

- influence future directions of US fusion research.
- opportunity for the US fusion community to explain its research goals to a new administration.
- help OFES develop a plan for US fusion research during the ITER era---roughly the next two decades.
- ReNeW's planning activity will culminate in a Report to OFES, to appear by mid-July, 2009.

Structure

- The plan described in the Workshop report will use as its framework a set of approximately 15 scientific and technical initiatives.
- Initiative: an organized, multi-faceted attack on some question, or coherent set of questions, essential to magnetic fusion energy science and technology, using a combination of new and existing program elements.
- The Report will describe each initiative in sufficient detail to allow an estimate of the required resources.

Workshop

- A key challenge to ReNeW is the integration of the building-block initiatives into a compelling and consistent strategy for fusion energy research.
- Logical and temporal consistency
- Integration activity to be the dominant focus of the Workshop, although it must begin well in advance.

Basis

- Three essential resource documents:
 - Priorities, Gaps and Opportunities Panel, chaired by Martin Greenwald ("Greenwald report")
 - Toroidal Alternates Panel, chaired by David Hill ("TAP report")
 - Energy Policy Act (EPAct) task group of the U.S.
 Burning Plasma Organization ("EPAct report")

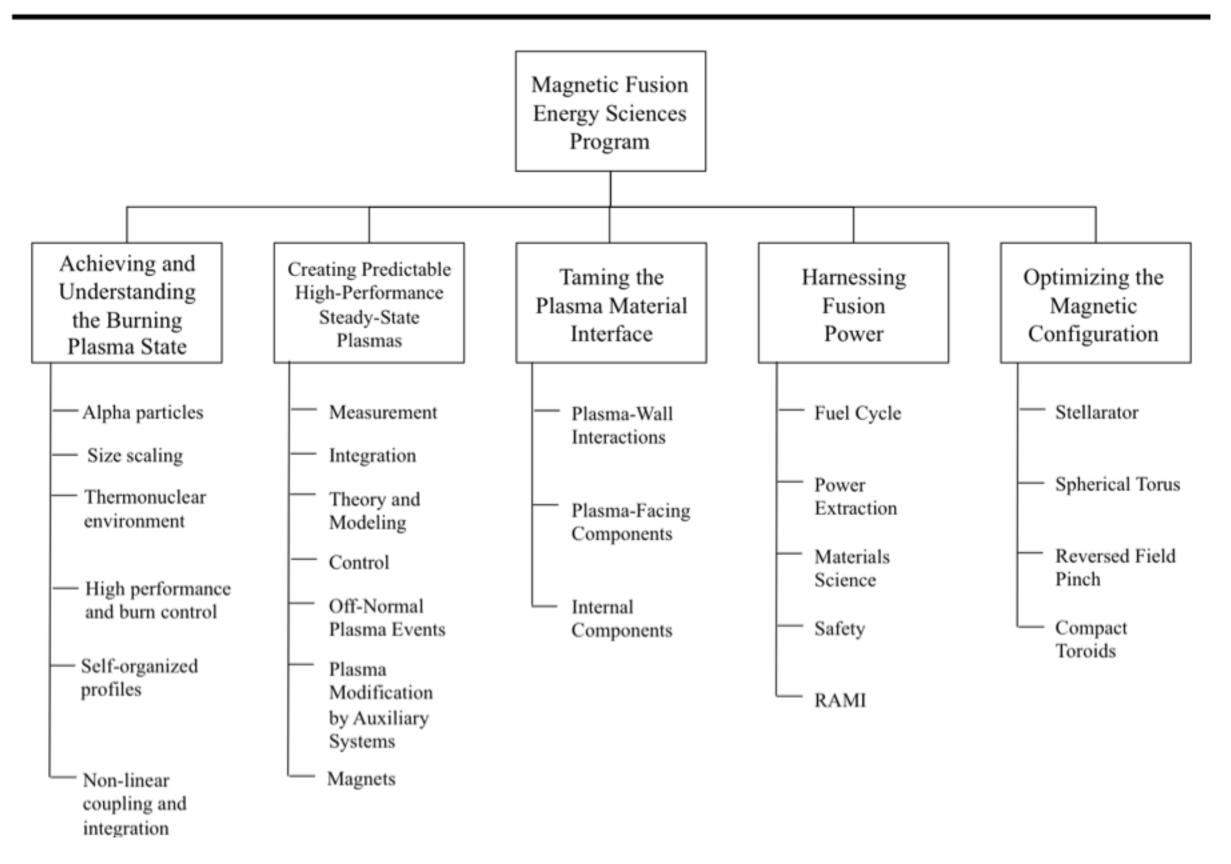
Organization

- Greenwald report establishes both the structure of the ReNeW organization and the starting point for ReNeW planning.
 - use (minor revision allowed) the fifteen issues identified by the Greenwald panel
 - modification: append issues and gaps identified in the TAP or EPAct reports.
- mapping of the Greenwald issues and gaps onto ReNeW Themes and Panels straightforward:
 - three of the five ReNeW themes are taken directly from the Greenwald report.

Initiatives

- ReNeW will describe its initiatives in higher detail than previous reports.
 - sufficient detail to allow an estimate of the required resources.
 - options, facility requirements and decision points.
 - Where more than one strategy or initiative could address a given gap, ReNeW will consider the relative merits of alternative approaches.
 - It will also consider the role of foreign programs and facilities to help address the gaps.

Research Needs Workshop Structure



Proposed ReNeW Preparation Schedule

1.	Panel organization complete	Dec. 1, 2008
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2.	Issue detailed work p	olans	Dec. 19, 2008
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3.	5 Theme Workshops	March 30, 2009
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4.	Winnow initiatives	and make them consistent	April 2, 2009
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- 5. Issue draft report for Workshop. May 22, 2009.
- 6. ReNeW Workshop, Bethesda, MD June 7-13, 2009
- 7. Issue final report. July 17, 2009