

# Nuclear Energy University Programs (NEUP)

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## NEUP Fiscal Year (FY) 2011 Status

Presentation to Nuclear Energy Advisory Committee (NEAC)  
June 15, 2011

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# NEUP Funding is Program Driven

Natl. Labs

Universities

DOE-NE HQ



DOE NE Program Drivers

Program Directed Funding

Program Supported Funding

Mission Supported Funding

Peer Review



# ***Summary of Improvements and New Programs for FY 2011***

- Expand “Blue Sky” Research and Development (R&D)
- Initiate Integrated Research Projects (IRP)
- Expand and improve peer review data base
- Evaluate adoption of NRC and NNSA Metrics as appropriate to NEUP
- Conduct peer review at pre-application stage for R&D



## ***2011 Proposed NEUP Budget - \$61.8M***

- Program Directed Integrated Research Projects (IRP) - \$12.0M (NEW)
  - Accelerated aging of UNF in Dry Storage
  - Advanced Thermal Reactor Concept
- Program/Mission Supporting R&D - \$38.6M
- University Infrastructure: Reactor Upgrades and University Equipment - \$5.7M
- Administration, Contributions, and HQ Holdback- \$2.7M + \$2.5M + 0.3M
- IUP Fellowships and Scholarships - TBD



# ***FY 2011 R&D Applications Overview***

- ◆ Received 766 pre-applications, 245 invited to submit full proposals
- ◆ 259 full proposals received, including 18 uninvited proposals
- ◆ 50 full proposals recommended for award, representing 29 lead universities and 23 collaborating organizations (12 universities, 8 national laboratories, and 3 industrial partners)



# ***Funding for Recommended Proposals***

<b>Program</b>	<b>Submitted</b>	<b>Recommended</b>
FCR&D	\$75.3 M	\$12.1 M
Reactor Concepts	\$99.0 M	\$11.9 M
NEAMS	\$14.4 M	\$4.9 M
Mission-Supporting "Blue Sky"	\$35.6 M	\$9.7 M
<b>Total</b>	<b>\$224.3 M</b>	<b>\$38.6 M</b>



# *FY 2011 Infrastructure Solicitations ~ Review and Recommendation Summary*

	Proposals	States	Total Requested	Proposed Cost Match	Panel Recommendation
Major	9	8	\$ 11.2 M	0	(2) - \$2.2 M
Minor	13	6	\$ 2.8 M	\$0.8 M	(7) - \$1.2 M
GSI	61	33	\$16.3 M	\$1.6 M	(12) - \$2.3 M

Panels recommend funding 21 Infrastructure Grants with a value of \$5.7 M and \$1.4 M in cost match.



# ***IRP Solicitation Status***

- Received 7 Applications for Fuel Cycle (FC) IRP
- Received 4 applications for Reactor Concepts (RC) IRP
- Individual reviews underway. Panels scheduled for June 20-23, 2011
- RC Technical Reviewers: John Polcyn (Invensys Process Systems), John Sackett (ANL Ret.), Mike Podowski (Rensselaer Polytechnic Institute)
- RC Relevancy Reviewers: Matt Hutmaker (DOE), Robert Hill (ANL)
- FC Technical Reviewers: Regis Matzie (Westinghouse Ret.), Jerry Frankel (the Ohio State University), Ron Ballinger (Massachusetts Institute of Technology), Robert Einziger (Nuclear Regulatory Commission)
- FC Relevancy Reviewers: Syed Bokhari (DOE), Peter Swift (SNL), Mark Nutt (ANL)
- Award by the end of FY 2011





# ***NEUP FY 2012 Planning Conference***

- August 9-10, 2011, in Chicago, IL
- Engage university community
  - Anticipated focus of FY 2012 NEUP R&D solicitations
  - Results of FY 2011 activities and lessons learned
  - Request feedback on NEUP program and processes
  - Encourage Continued university community support of NEUP
    - Support the Certified Peer Review Data Base
    - Timely and quality individual and panel review of proposals

