

National Renewable Energy Laboratory FY 2000 Business & Operating Results Fact Sheet

Laboratory-Level Management Outcomes

Measures of Efficiency

NREL management ensures that operations at the Laboratory level remain productive and efficient. The following charts demonstrate the results of effective management, emphasizing results and improvements.

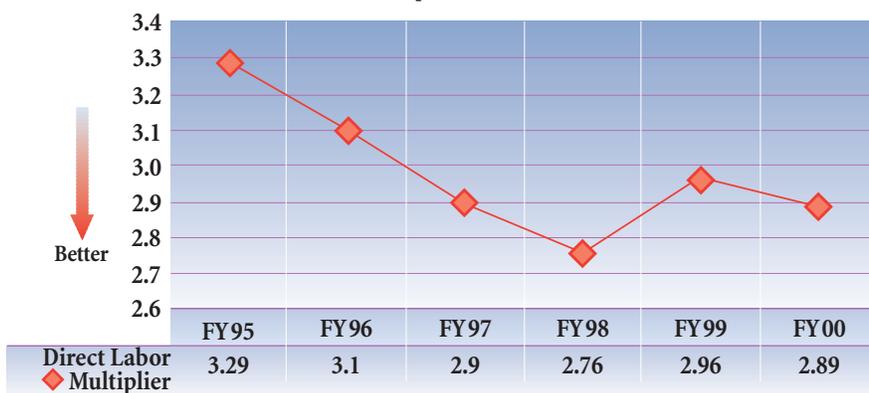
Operating Costs per Research FTE

(adjusted to FY00 constant-year dollars)



NREL operating costs per research FTE have been reduced in real terms since FY95. The slight increase in FY99 is attributed to management transitions resulting from contract recompetition. Operating costs include labor, facilities overheads, recharge costs, and other indirect costs.

Direct Labor Multiplier



NREL has reduced its direct labor multiplier since FY95. Through proactive and effective management of costs, NREL in FY00 achieved its target of 2.89. NREL's FY00 overhead cost as a percentage of total costs was 21.5%.

NREL has reduced its GSO balance consistently since FY95. Effective program management has resulted in a decrease in Goods and Services on Order (GSO) balances of more than 58% since FY95.

Uncosted Obligations (GSO)



Research/Support Ratio in FTEs



Measures of Productivity

The ratio of research (direct) to support (indirect) full-time equivalents (FTEs) is increasing.

This indicates that more of NREL staff are working directly on the science and technology needs of the Lab's clients, relative to the support functions required to conduct the work.

Nearly two of every three dollars invested at NREL are spent directly on producing technical research, project outcomes, and results. Contract transitions and new requirements have been managed to produce this outcome consistently over the past several years.

Research/Support Ratio in Dollars



Research Productivity and Recognition

Research Productivity Benchmarks

	NREL average per 100 technical staff* FY 92-98	DOE lab-system average per 100 technical staff** FY 92-98	NREL average per 100 technical staff FY 00
R&D 100	0.58	0.16	1.08
Peer-Reviewed Publications	57.10	53.24	83.45
Patents Awarded	4.88	1.64	2.88

* Technical staff = Number of scientists and engineers

** Labs used to create the benchmark: Ames, ANL, BNL, LANL, LBNL, LLNL, ORNL, and SNL.

NREL's average number of R&D 100 awards, peer-reviewed publications, and patents awarded per 100 technical staff exceeded the DOE laboratory-system performance on these measures from FY92-FY98; and FY00 results reflect a continuation of this performance. While performance in each individual category varies with program milestones and progress in any given year, these collective measures present a consistent picture of increasing research productivity and external recognition.

R&D 100 Awards Received by NREL

Awards received in FY00 were:

- Electroexploded Metal Nanopowders - David Ginley
- Real-time Biomass Analysis - Bob Meglen, Steve Kelley, and Bonnie Hames
- North Wind 100/20 Wind Turbine - Gerry Nix and Brian Smith. This technology also received an Editor's Award, which recognizes the top three R&D 100 Award winners each year.



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