

Strength Through Science



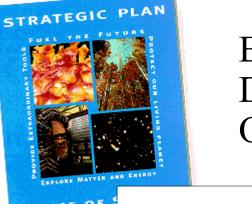
GOVERNMENT-WIDE PERFORMANCE PLAN



Strategic Management Systems Performance Measures & GPRA

BUDGET OF THE UNITED ST

Fiscal Year



Bill Valdez Director, Office of Planning and Analysis

CIRCULAR NO. A-11 PART 2

> PREPARATION AND SUBMISSION OF STRATEGIC PLANS AND ANNUAL PERFORMANCE PLANS



November 14, 2000

Elements of the Strategic Management System Framework

Planning Budget Formulation DOE Strategic Plan Corporate Budget Review Secretary's 5-Year Budget **OMB Budget Submission** Guidance Congressional Budget **Customers:** Annual Performance Plan Request **R&D** Portfolio Development Programs and Road-mapping Field **Employees** Contractors Private Sector **OMB** Congress Public **Budget Execution Program Evaluation** Secretary's Presidential Agreement **Quarterly Performance Reviews** Secretarial Officer Agreements Annual Accountability report **Performance Contracts Employee Performance Reviews**

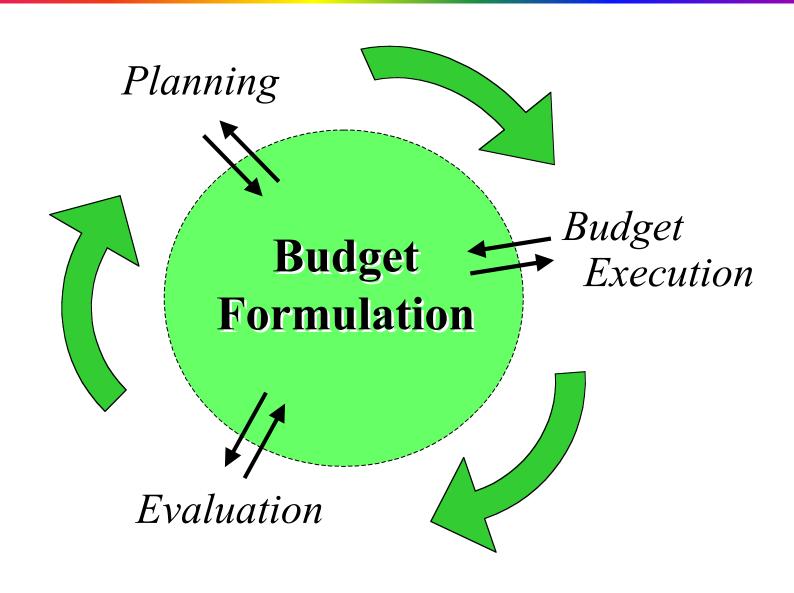
"Strategic planning is one of the integral steps in fulfilling DOE's mission and this strategic plan is the fundamental basis for all planning within the Department."

Elements of the Streegic Management Strem Framework



"Strategic planning is one of the integral steps in fulfilling SE's mission and this strategic plan is the fundame. It is for all its strategic plan is the fundame.

Proposed SC Strategic Management System Framework



Pressure to Change the Process Why this isn't going away

Sund rate Ave Uhm House GF &C & W. Line G WAS Belle TODS. BY The Committee Has received your 2000 draft secarcity memorial agency to submit a 5-year strategic plan and reyear. As you know, the 1993 Government Performance and Russilis each federal agency to submit a 5-year strategic plan and reyear. The Committee has received your 2000 draft secarcity memorial and supplied to the consideration of the con	exise that plan every three ic plan and is submitting a attached review takes into rich Service overnents in its 2000 draft	accomplishment outcomes, guid span of influence For example, "Explore Matte
submitting its plan in a timely fashion and meeting with cr possible improvements to fulfill the congressional consultate		United States General Accounting Office
Act. In developing a strategic plan, the Results Act requires o	GAO	Draft Report
Congress 1 believe this immulatation is critical to provestablishment of performance objectives and standards upon performance and approve budgets. We note that DOE to scritting and hope the Department will find our comments a		Correspondence to: The Honorable James Sensenbrenner
F JAMES SENSENBRENNER, JR Chairmba FIS/ers enclosure	Date	OBSERVATIONS ON THE SCIENCE PORTIONS OF DOE'S FY1999 ACCOUNTABILITY REPORT AND FISCAL YEAR 2000 AND 2001 PERFORMANCE PLANS
	Notice: This draft is restricted to official use.	This draft report is being provided to obtain advance review and comment from those with responsibility for the subjects it discusses. It has not been fully reviewed without AAO and is, therefore, subject to revision. Rectiginess of his draft must not under any circumstances, show or release its contents for purposes other than official review and comment. It must be safeguarded to prevent publication on other improper disclosure of the information it contains. This draft and all copies of it remain the property of, and must be resurred on demand in, the General Accounting Office.
	GAO/RCED-80-258R	GAU Farm 515 (Ecs. 2019)

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I. S. HOUSE OF REPRESENTATIVES

COMMUTTEE ON CCIENCE

"The objectives are not measurable outcomes as called for by the results act and do not outline planned accomplishments, schedule implementation, describe outcomes, guide agency staff or discuss where DOE's span of influence stops as called for by OMB Circular 11A ... For example, how do we measure "Fuel the Future" or "Explore Matter and Energy".

> "FY 2000 and 20001 performance plans do not convey a clear picture of the Department's science programs because they are not consistent over time."

"The quality of information on performance is also limited because the accountability report does not explain how DOE verified and validated the results tied to each performance measure."

GAO Examples of "Unclear/Inappropriate" Performance Measures and Goals

Goal: "Develop the technologies required to meet DOE's energy, national security, and environmental quality goals"

<u>GAO</u>: "unclear because (it) does not provide information about what DOE has to do to 'develop' the technologies ... and no information about the 'goals' the new technologies will meet."

<u>Measure</u>: "Maintain the high quality and relevance of DOE's science as evaluated by annual peer review and advisory committees."

<u>GAO</u>: "vague because it does not indicate how DOE's science can be measured or quantified. ... a highly interpretative description ... reads more like a strategic objective than an annual performance measure.

Measure: "Measure progress and success of NP in responding to priorities & recommendations in NSAC plan as measured by NSAC"

GAO: "an evaluation of the (program) more than it is an output of the program and as such may not be appropriate as a performance measure"

Proposed SC Budget Guidance Summary

- Program Mission
- Program Goal
- Program Objectives
- Performance Measures
 - Science Excellence and Relevance
 - Science Leadership
 - Science Infrastructure and Stewardship
 - Management and Operational Excellence
- Sub-Program Performance Measures
- Verification and Validation/ Evaluation Plans
- Accomplishments
 - Science Excellence and Relevance
 - Science Leadership
 - Science Infrastructure and Stewardship
 - Management and Operational Excellence
- Major Program Shifts

Currently Performing an Evaluation of All Existing Performance Measures

- >150 Existing Measures (Total SC)
 - Budget
 - DOE Strategic Plan
 - SC Strategic Plan
 - DOE Performance Plan
 - President's Agreement
- Evaluation Criteria
- General Comments
 - All but BER are not specific enough.
 - BER is a bit too specific.
 - Most are not clear of DOE role.
 - Most do not include validation and verification method.
 - Links to Strategic Plan and Budget are not clear

Review Criteria for Existing Performance Measures and Goals

Office of Science Performance Measures Review - June 2000			
Program Goal/Objective/Performance Measure:			
Recommendation: Keep, as is Keep but improve Move to 2 nd tier			
Relevance to SC strategic goal or science theme area is clear Clear Not obvious Area (s)			
 A Scientific advance tied to applied mission area or technology innovation F Fuel the future (new fuels, clean and affordable power, efficient energy use) P Protect our living planet (energy by-products, understand impacts, prevent/protect) E Explore matter and energy (components of matter, the universe, complex systems) 			
Characteristics of Goal General/Program Goal	3. Measurable, Valid, Plausible (Summary) Yes No		
General/Program Objective			
Success Indicator (strategic plan) Performance Measure/Goal	3a. Stated in Measurable Terms Yes No		
	Performance expectation & date		
Program Level Project level	Base level of performance How assessed is clear		
For what Year	DOE role is clear		
Type of Goal/Objective/Performance Measure I Socio-Economic Outcome (social, energy, environmental, or economic impact)	3b. Goal is plausible, can be met in timeframe Yes No Don't know		
EX Science Excellence or Relevance	3c. Validation method stated clearly		
General EXG (Quality or Relevance expectation)	Yes No/None Peer/advisory committee review		
Specific EXS (Advancing	Third party or external data		
science technical milestone) SL Science Leadership (leadership in field	Program management records		
or science area)	3d. Quantitative and qualitative (want mix)		
IS Infrastructure Stewardship (facility	Qualitative Quantitative		
downtime, user satisfaction, # students trained) M Management Process (# of peer reviews,	3e. Trend could be seen over time		
cost schedule milestones) IN Input Measure (budget, # of staff)	Yes No Possible		
4. Where Located (check all that apply) FY 2002 budget (June draft)	5. Meets other DOE Criteria Yes No		
FY 2001 Performance Plan	Specific		
FY 2000 President's Agreement DOE Strategic Plan 2000	Meaningful Concise		
SC Strategic Plan	Concise Written for taxpayer		
Comments:			

- 1. Relevance to SC Strategic Goal or Science Theme Area
- 2. Characteristics of Goal
 - Program or Project Goal?
 - Measure, Objective, or Goal?
 - For What Year?
 - Type (Manage, Leader, Excellence)
- 3. Measurable, Valid, Plausible
 - Stated in Measurable Terms?
 - Can be Met in Timeframe?
 - Validation Method Stated?
 - Quantitative or Qualitative?
 - Trend can be Seen Over Time?
- 4. Where Located?
- 5. Other DOE Criteria
 - Specific?
 - Meaningful (to DOE Missions)?
 - Concise?
 - Written for the Taxpayer?

SC-5 GPRA Responses

- 3-year Benchmarking Study of Management Practices of Publicly Funded Science Organizations.
- SPIRE -- A Deep Analysis Datamining Tool for Portfolio Analysis.
- Innovative Evaluation Techniques: Case Studies, International Benchmarking, Quantitative Measures.
- Foresighting Study of International Science Trends.

Next Steps

- Meet with ADs to develop more Performance Measures that are both quantitative and qualitative (mix).
- Consider whether to pursue COSEPUP approach on international benchmarking.
- Followup with NASA, NIH, NSF & NIST to discuss/ develop a common approach.
- Further interactions with COSEPUP including November 29th meeting with the full panel regarding GPRA.
- Validation of new consensus approach through discussions with GAO, Hill, OMB, SC Advisory Committees, COSEPUP, etc.
- Begin incorporating the new approach into the FY 2002 SC Budget Request.