U.S. Department of Energy
Energy Efficiency and Renewable Energy

Welcome and Introduction

Industrial Technologies Program Corporate Peer Review

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U.S. Department of Energy
September 7, 2006

Welcome

Scope and Objectives

Peer Review Scope

Corporate Peer Review Scope:

- Corporate FY2006 Portfolio
- Corporate Level Planning & Strategy
- Break-Out Groups on Selected Topics & Feedback

Not within Corporate Review scope:

- Budget Discussions
- Subprogram Portfolio/Project Reviews
- Individual Project Reviews

Objectives

- Communicate with stakeholders on ITP's path forward, adoption of technology pathways and fuel & feedstock flexibility
- Receive input from stakeholders on the means to increase near-term impact of the program
- Energize our stakeholders to strengthen our partnership at the Corporate Level
- Fulfill EERE and OMB requirements for Peer Review

What is a Peer Review?

- Powerful and effective tool for enhancing the relevance, effectiveness, and productivity of the ITP research, development and demonstration activities, and facilitates commercialization because it taps the experiences and insights of our stakeholders
- Essential in providing robust, documented feedback to program planning
- Provides management with independent confirmation of the effectiveness and impact of its programs

Agenda

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Day 1 AM: Thursday, September 7th

- 8:00 – 8:30 Coffee
- 8:30 – 9:00 Welcome & Introduction
- 9:00 – 9:30 Current Portfolio & ITP Technology Successes
- 9:30 – 10:00 The Secretary's Save Energy Now Initiative: progress to date
- 10:00 – 10:15 Break
- 10:15 – 10:45 Decision-Making Through Studies & Analysis
- 10:45 – 11:15 Risk Management and Stage-Gating
- 11:15 – 12:00 Overview of ITP Mission and Strategy
- 12:00 – 1:30 Group Lunch

Agenda

Day 1 PM: Thursday, September 7th

- 1:30 – 3:15 Breakout Groups
  - Exploiting fuel & feedstock flexibility for industry
  - Capturing the $30 billion energy efficiency prize
  - Strengthening public-private partnerships for innovation & deployment
  - Accelerating technology deployment
- 3:15 – 3:30 Break
- 3:30 – 4:30 Breakout Groups Report Back
- 4:30 – 5:00 Concluding Remarks

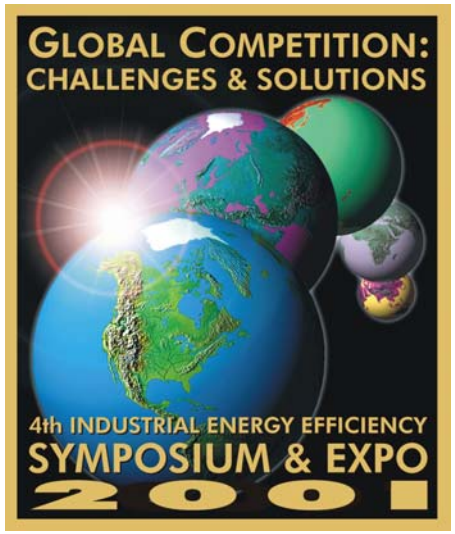
Day 2: Friday, September 8th

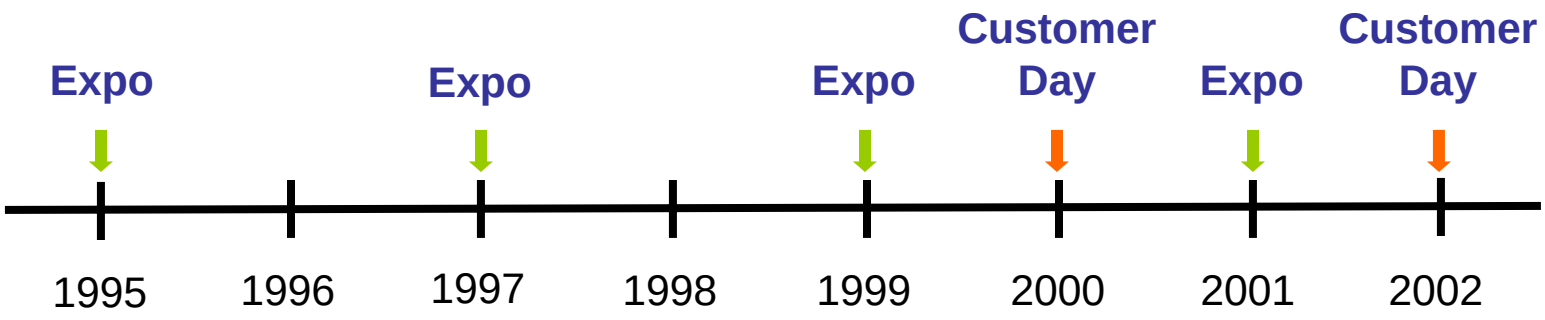
Closed Meeting with Reviewers

History

ITP Customer Days & Expos

- First corporate ITP meetings focused on relationship with stakeholders and obtaining direct feedback
- Each meeting attended by over 200 invited stakeholders
- Total of 4 Expos held in 1995, 1997, 1999, and 2001
  - 2001 Expo participants >800
- Total of 2 Customer Days held in 2000 and 2002



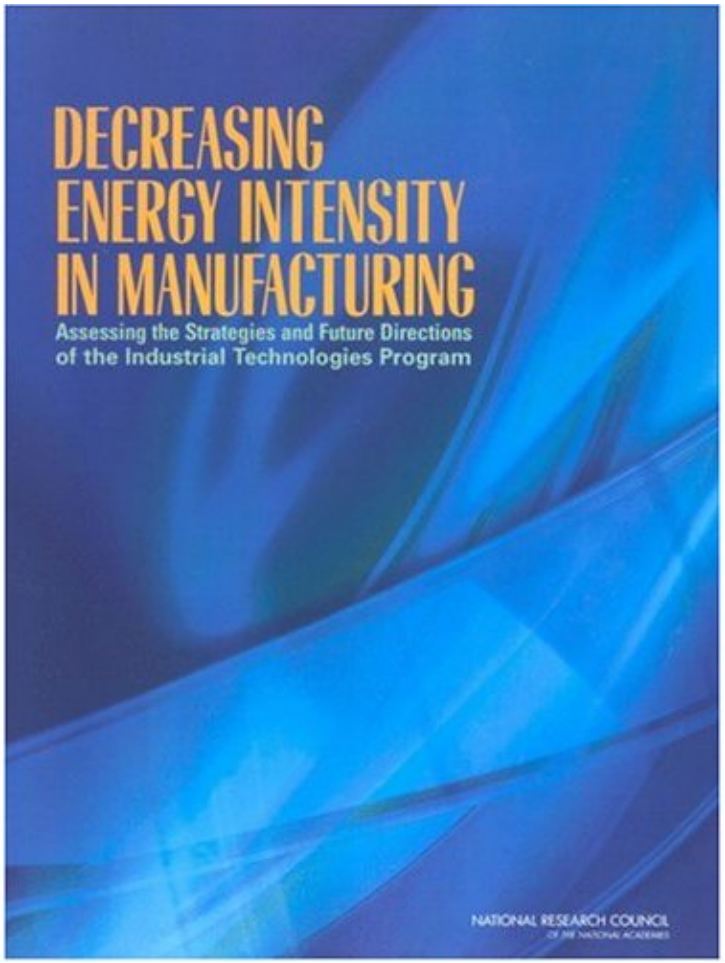


First Corporate Peer Review

First ITP Corporate Peer Review 2004 conducted by the National Academy of Science (NAS)

March 9-10, 2004

Arlington, VA



Decreasing Energy Intensity in Manufacturing: Assessing the Strategies and Future Directions of the Industrial Technologies Program

First Corporate Peer Review

- Input and feedback helped ITP refine its corporate strategies and planning mechanisms, improve its technology portfolios, and sharpen its mission focus
- It provided an opportunity for industry partners to network with peers, other key industry leaders and decision-makers, top academics, and government officials

NAS Recommendations

1. Explore new ways to benefit industries other than those directly targeted through ITP partnerships

   - ITP Response:
     - Best Practices – activities expanded
     - Save Energy Now – nearly 200 on-site energy audits with energy efficiency recommendations for known practices plus ITP commercial and emerging technologies
     - ITP Web Site – easier to search and find, factsheets, final R&D project reports, Studies and Analyses

NAS Recommendations

2. Develop more effective mechanisms for collaboration and coordination across ITP subprograms and projects to reduce stove-piping and to encourage the achievement of broader goals

- ITP Response:
  - Metric reconciliation analyses
  - Development of top level strategies
  - Grouping of technologies into “platform” areas
  - Opportunity Analyses – cross cutting technologies (e.g., refractories, waste heat recovery,...)
  - Fuel & Feedstock Flexibility

NAS Recommendations

3. Redirect student education activities to other governmental entities that have direct educational missions, with the exception of those activities directly related to the plant assessments performed by students for the ITP Industrial Assessment Centers

- ITP Response:

  ITP has ended consideration of educational initiatives and only retains the Industrial Assessment Centers.

NAS Recommendations

4. Review ITP subprogram management practices to ensure clarity and consistency or, where practices differ, to ensure that differences are justified

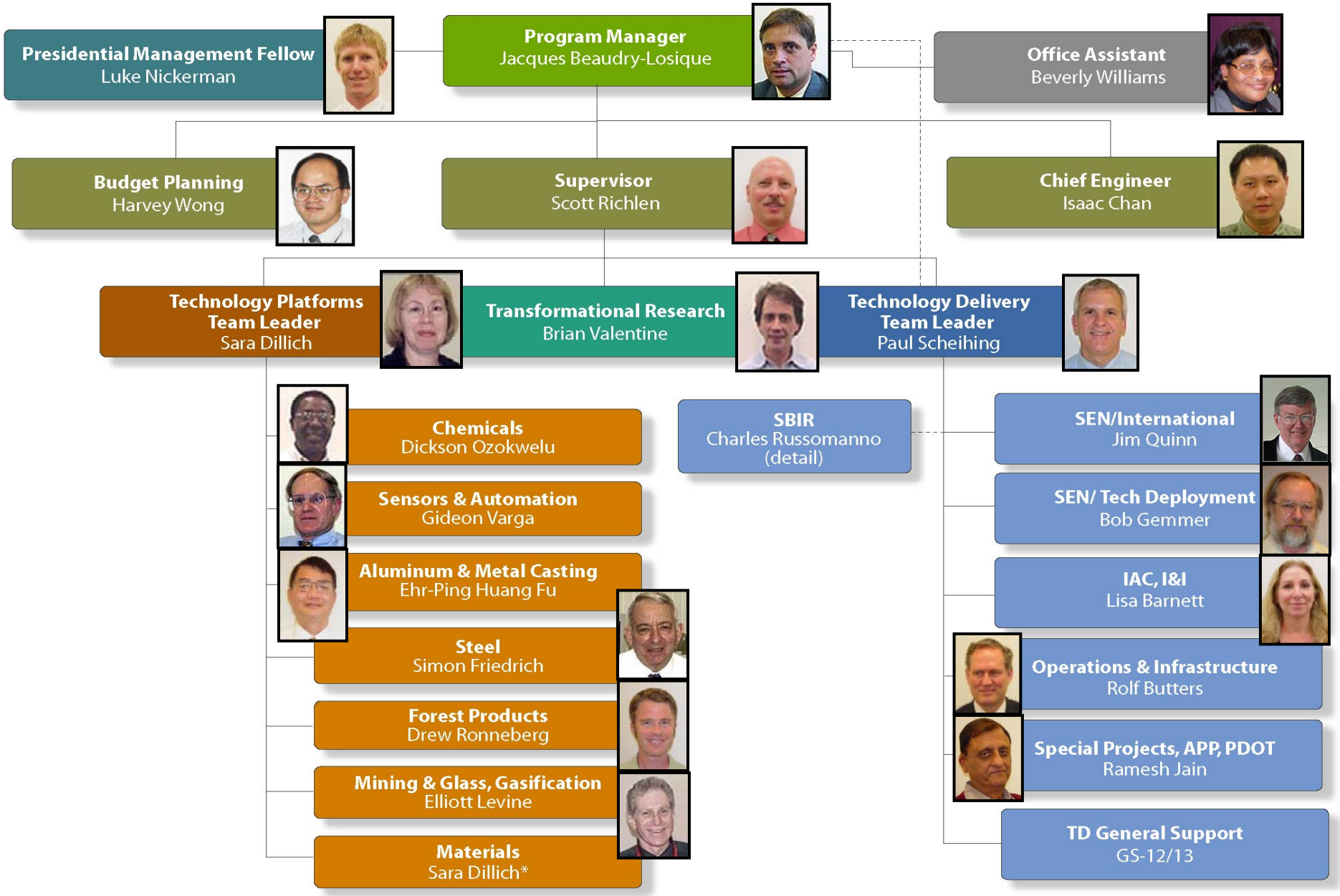
- ITP Response:
  - Multi-Year Program Plan – all subprograms plans are structured into one overall corporate planning document.
  - Streamlined the Barriers/Pathways/Metrics to keep subprogram portfolios on the same basis
  - Revised solicitation practices
  - Instituting Stage-Gate management practices

NAS Recommendations

5. Increase benefits by propagating the ITP strategy, where appropriate, to other programs in EERE

- ITP Response:
  - Corporate Planning System – originated in ITP now used throughout EERE
  - *FEMP* and ITP are working together to establish a federal site to demonstrate the SuperBoiler project
  - *Buildings* and ITP are working together to bring *Buildings* developments into industrial facilities
  - ITP Information Center at Washington State University now services all of EERE

ITP Team



ITP Office Structure

Management and Roles

(EERE suggests third party management of the review)

2006 Corporate Peer review is managed by the American Society of Mechanical Engineers (ASME)

Review Chairperson: Michael Tinkleman, ASME Director of Research

Facilitator: G. Kimball Hart, Hart, McMurphy and Parks, Inc.

ASME's role:

- Select the Reviewers
- Manage the Review Process
- Write the Review Report

ITP's role:

- Host the Review
- Respond to the Review Report

ASME Reviewers

- **Mort Blatt**
- **John F. Clarke**
- **John Green**
- **Nag Patibandla**
- **Kenneth R. Richards**
- **Brian Smith**
- **David C. Thomas**
- **Jim Wolf**
- **Warren W. Wolf**
- **Raymond L. Zahradnik**

Please Complete Questionnaires

We Value Your Input!