



EPA's Vision for Innovative, Sustainable Technologies

SAB Environmental Engineering Committee Teleconference

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Office of the Science Advisor

Supports Science Advisor in his 5 key responsibilities:

- Advise Administrator on science issues.
- Coordinate cross-agency science and science policy issues.
- Resolve conflicts on science and science policy.
- Provide vision on science; advance emerging science issues.
- Serve as face of/spokesperson for Agency science as a whole.



Science & Technology Policy Council

- High-level, cross-Agency council
- Chaired by the EPA Science Advisor
- Help drive development and implementation of sustainable, innovative technologies to solve environmental and public health problems



Sustainable Innovation for Environmental Protection: The Case for a New Approach

- New grassroots environmentalism linked to economy
- Opportunities to reclaim leadership in development of clean, safe products
- Need to capitalize on growing, green marketplace
- Strong history of ingenuity, invention, and innovation



Sustainable Innovation: The “Sweet Spot”

- Intersection of economic and environmental interests
- Clean environment = Healthy atmosphere for investments = Enhanced community well-being



A New Strategy

- Change the way we bring products to the market
- Broaden our view of “technology”
- Change the way we define the problems



Integrated Trans-disciplinary Research (ITR)

Interaction of systems:

- ***Green engineering***
- Green chemistry
- Industrial ecology
- Sustainability science



Green Engineering

- Focus on life cycle approach
- Expand beyond the “widgets”
- Move beyond pollution prevention



Innovating Through New Partnerships

- Social/Behavioral Science Community
- Business and Entrepreneurships
- Marketing

Conclusion

- Sustainability - greatest intellectual challenge of our generation; bridges economic, environmental, and social interests
- “Game-changers” – creativity; ingenuity
- Sustainable, innovative research and technology efforts will ensure we can meet the environmental challenges of today, as well as the future, while growing the job market.



Contact Information

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