

Making Environmental Performance Count: Measuring & Reporting GHG Emissions

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WRI 3rd Sustainable Enterprise
Summit

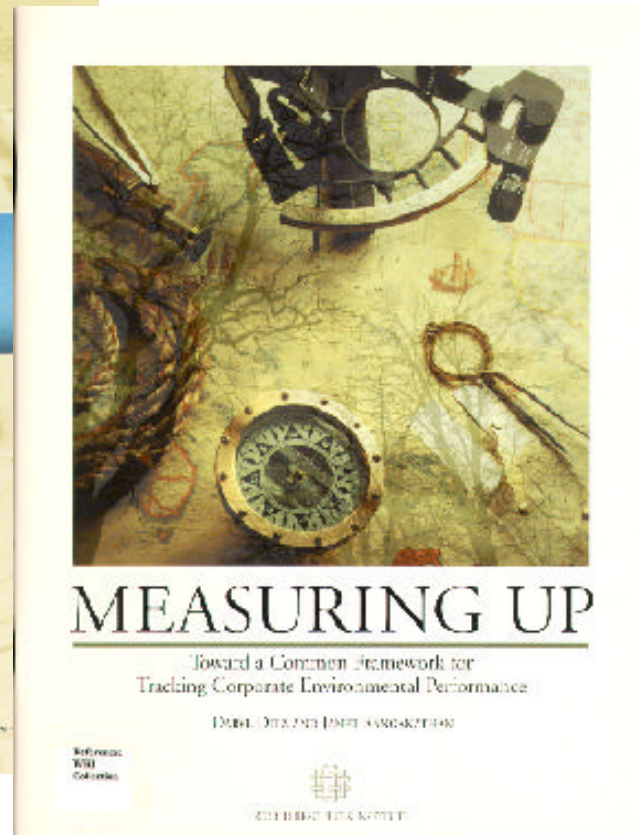
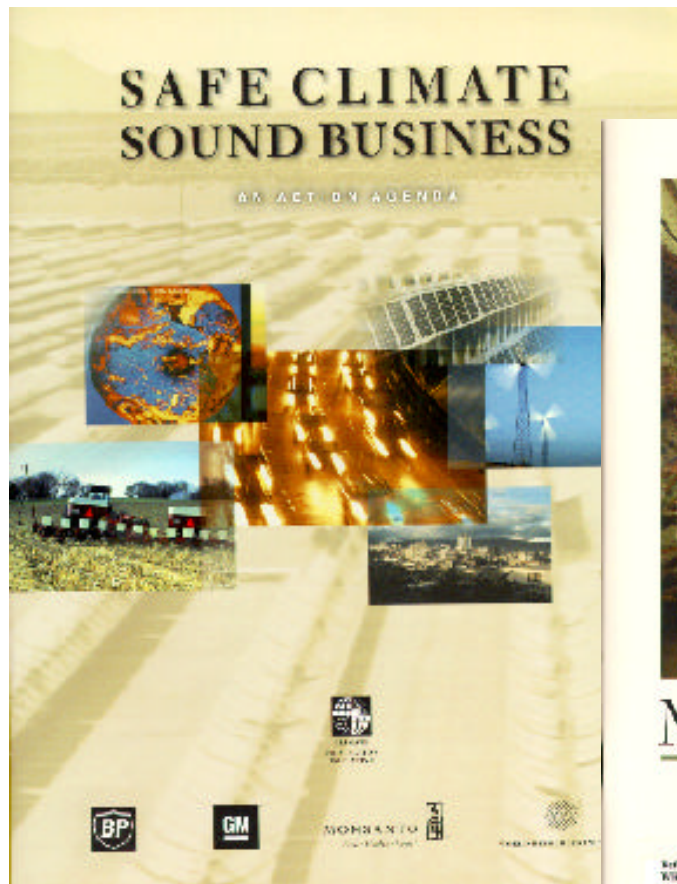
Measuring & Reporting GHG Emissions: Session Outline

- Introduction to GHG measurement & reporting
Collaboration
- Objectives for developing a GHG inventory
- Measurement & Reporting Challenges
- Towards an International GHG Reporting
Standard

A Collaboration to Build an
International Standard for
Measuring & Reporting
Business Greenhouse Gases

Liz Cook & Janet Ranganathan
World Resources Institute

WRI's Objectives



A Collaboration to Build an International Standard for Measuring and Reporting Business Greenhouse Gases

Vision: to design, disseminate, and promote the use of an internationally accepted protocol for measuring and reporting business greenhouse gas emissions, through an open multi-stakeholder process

Collaboration Participants

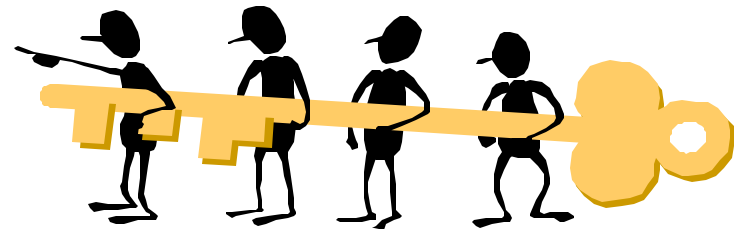
- Arthur D. Little, Inc.
- Australian Greenhouse Gas Office
- BP Amoco plc
- Canadian Institute of Chartered Accountants
- CEOC oalition to Advance Sustainable Technology
- CERES
- Center for Energy and Climate Solutions
- CH2M HILL
- Clean Energy Group
- Climate Neutral Network
- Consolidated Edison Co. of New York
- DowChemical Company
- G eneral Motors
- Global Environmental Management Initiative
- Global Reporting Initiative
- Imperial Chemical Industries plc
- Interface Research Corporation
- International Paper
- Norsk Hydro
- PewCenter on Global Climate Change
- PowerGen
- Pricewaterhouse Coopers LLP
- Public Service Enterprise Group
- Rocky Mountain Institute
- S hell International
- STMicroelectronics
- Suncor
- Tata Energy Research Institute
- TokyoElectric Power Company Inc.
- Therm oRetec
- Trexler & Associates, Inc
- UNEP
- US Department of Energy
- US Environmental Protection Agency
- United Technologies Corporation
- WBCSD
- WRI
- World Wildlife Fund

Collaboration Objectives

- Simplify measurement & reporting
- Utility across multiple borders & sectors
- Improve comparability
- Self-assessment or independent verification
- Internal driver of change
- Facilitate market-based policies

A Collaborative Effort

- Collaborative, open, multi-stakeholder process
- Build on existing work
- Unbranded product
- Modular approach
- 4 Teams (PMT, Production, Peer Review & Networking Partners)
- Links to broader reporting initiatives



Getting the Balance Right

- Simplicity versus Flexibility
- Practicality versus Completeness
- Flexibility versus Comparability
- Business versus external stakeholder needs



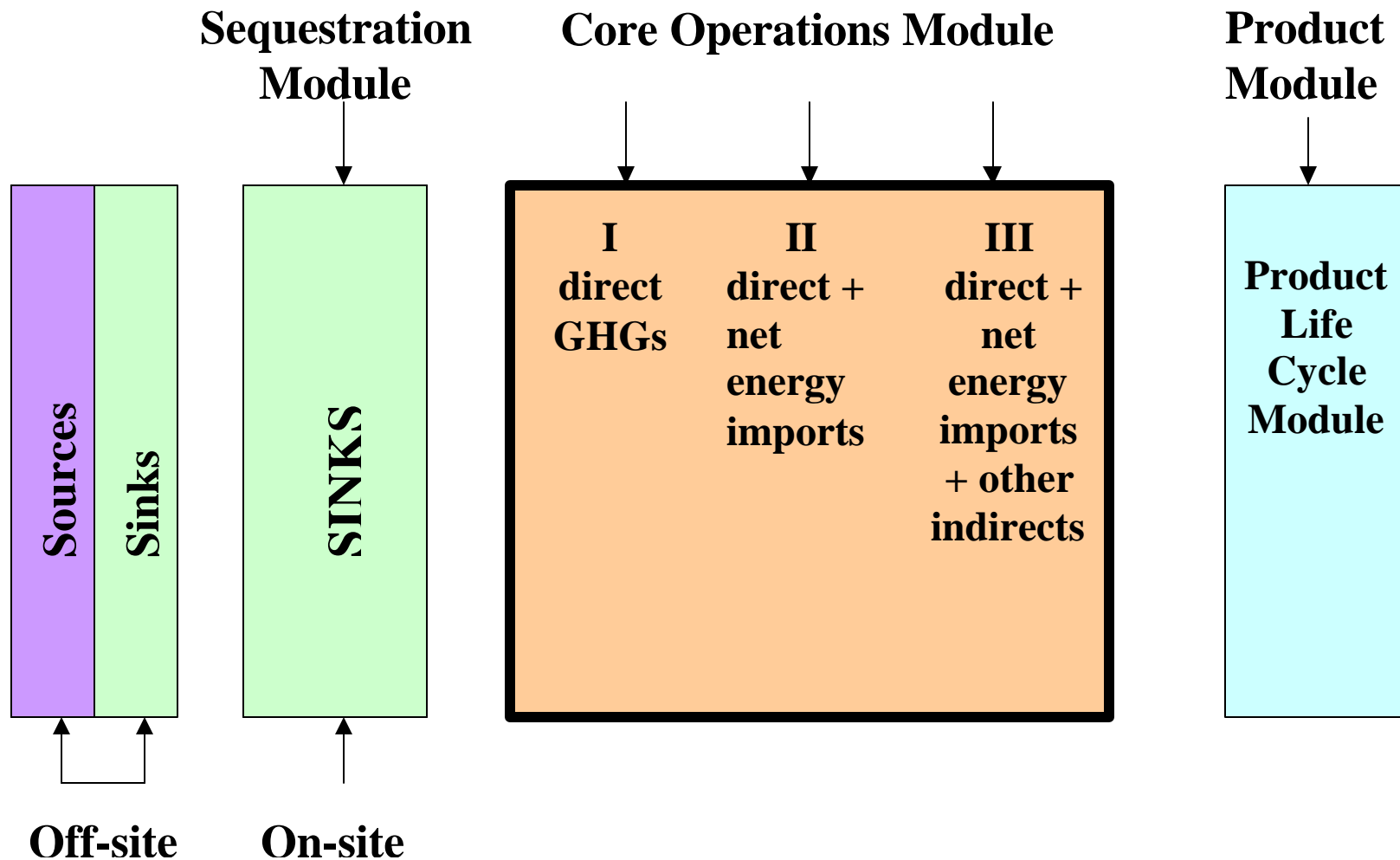
Production Team

- Protocols: flexibility, materiality, accuracy, sector work
- Boundaries: ownership, outsourcing
- Reporting & Self Assessment Tools

Uses of GHG Baselines

Use	Accuracy	Direct Emissions	Indirect Energy	Other indirects	Life Cycle emissions
Internal Management	Low to High	Yes	Yes	Yes	Yes
Emissions Trading	High Auditable	Yes	?	?	?
Credit Trading (JI, CDM)	High Auditable	Yes	Yes	?	?
Environmental Reporting	High to Medium	Yes	Yes	Yes	Yes
Credit for Early Action	High Auditable	Yes	?	?	?

Work in Progress: Draft Module Scopes



Work in Progress: Core Operations Framework

Sectors	CO ₂ from combustion of fossil fuel	Other CO ₂	CH ₄	N ₂ O	PFCs	HFCs	SF ₆
A	Similar for all Sectors			X			X
B		X			X		X
C							
D			X	X		X	
E							
F			X				
G							
H		X	X				
I							
J							
K							
L							
M							
N							

Work In Progress: Draft Reporting Template

What is included?	Annual Emissions From Core Operations		
	Scope I	Scope II	Scope III
	β	β	β
On-site emissions, CO2	X	X	X
On-site emissions, other GHGs, if any	X	X	X
Net emissions from energy imports and exports (usually grid electricity)		X	X
Emissions from business travel, product transport, waste disposal on and off site			X

www.ghgprotocol.org

