

Greenhouse Gas Protocols

Sustainable Business Expo

University of Puget Sound

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Corporate Protocol Models

- World Resource Institute (WRI) and
- World Business Council for Sustainable Development (WBCSD)
 - Stakeholder process with industry, government and non-government organizations.
 - Based on GHG protocol and reporting standards.
 - www.ghgprotocol.com

EPA Climate Leaders

- Voluntary Recognition program based on WRI/WBCSD protocol
 - Uses US Emission standards rather than IPCC standards used by ghg protocol
 - www.epa.gov/climateleaders

Organizational Boundaries

- Allocate Emissions by:
 1. Equity Share -% ownership of operations
 - Typically the same as ownership share
- OR**
2. Control Approach-One of Two Approaches
 - **Financial Control** -degree of control of financial and operating policies of the organization
- OR**
- **Operational Control** -degree of authority to implement operating policies at the operation

Direct Core Emissions- Scope 1 in WRI Protocol

- Generation of electricity, heat or steam
- Physical or chemical processing
- Transportation of materials, products, waste, and employees
 - Company owned/controlled sources only
- Fugitive Emissions from Owned assets

Core Indirect Emissions- Scope 2 in WRI

- Imported or purchased electricity, heating/cooling or steam
- For Electricity Providers:
 - Transmission and Distribution loss from facilities owned by the utility
 - Purchase of electricity for sale to end users
 - Recommended by Climate Leaders
 - Not required under Scope 2 Protocol

Optional Emissions-Scope 3

- Extraction and production of purchased materials and fuels
- Transportation of purchased and sold materials or goods
- Employee business travel
- Employee commuting
- Transportation and disposal of waste generated in operations

Next Steps

- Collect data
- Identify emissions factors to be used
 - IPCC or EPA factors
 - Mostly pre-supplied by calculation tools
 - Sector specific tools provided by Climate Leaders and ghg protocols
 - Stationary and Mobile Combustion
 - Purchased electricity emissions
 - Cement, iron/steel and HVAC manufacturing

Next Steps

- Develop Inventory Management Process
 - Assign responsibilities for data gathering and program implementation
- Set GHG reduction goal
 - Kyoto protocol -7% below 1990 emissions by 2012
 - Other goals based on industry
 - Corporate wide goals
 - May be assigned by facility. Division, department, etc.

Next Steps

- Track and Report Inventory regularly
 - Keeps stakeholders and employees informed of progress towards goals
 - Maintains focus on importance of the goal
- What gets measured, gets managed.
- We value what we measure

What's Needed

- Easy to use online calculator tool
 - Should be easy for any small business to use to develop their own inventory.
- Agreement on what should be included in inventory
 - Many scope 3 or optional emissions are under the control of the business
 - If not addressed by the individual business, they are not addressed at all