

“You cannot manage what you do not measure.”

Tim Stumhofer  
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GHG Management Institute

# Mission...



"To train and develop a global community of experts with the highest standards of professional practice in measuring, accounting, auditing, and managing greenhouse gas emissions."



# Challenges for the emerging GHG industry

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- Policies are developing quickly
- Carbon markets are growing and new ones emerging
- GHG emissions are becoming a global commodity
- Need to avoid “Enron” accounting problems
- Quickly need a large global pool of well-trained experts to support GHG metrics
- Experts must operate with a common ethical code and provide high levels of professional competency

# Rapidly professionalizing

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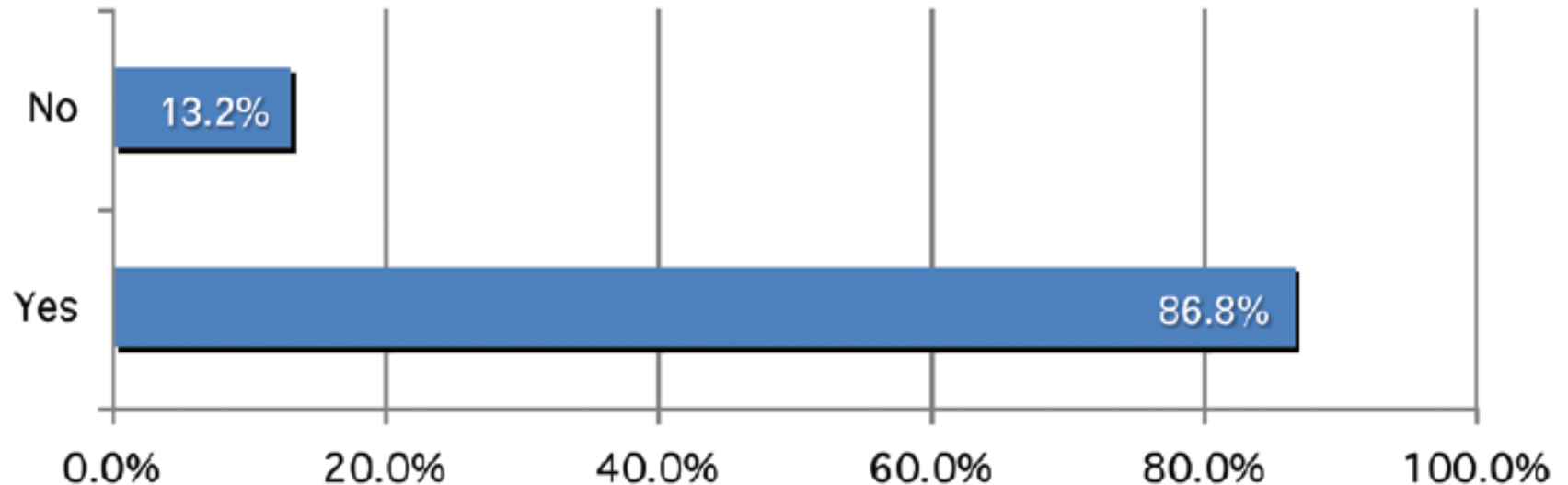


- Powerful force for change in society
- Needs to happen across the spectrum of activities within the carbon “industry”
- Certification of individuals and accreditation of bodies is the most obvious aspect
- Other frameworks must also be employed
  - Professional groups or associations
  - Eventually, recognized grad & post grad courses

# Workforce Needs Survey



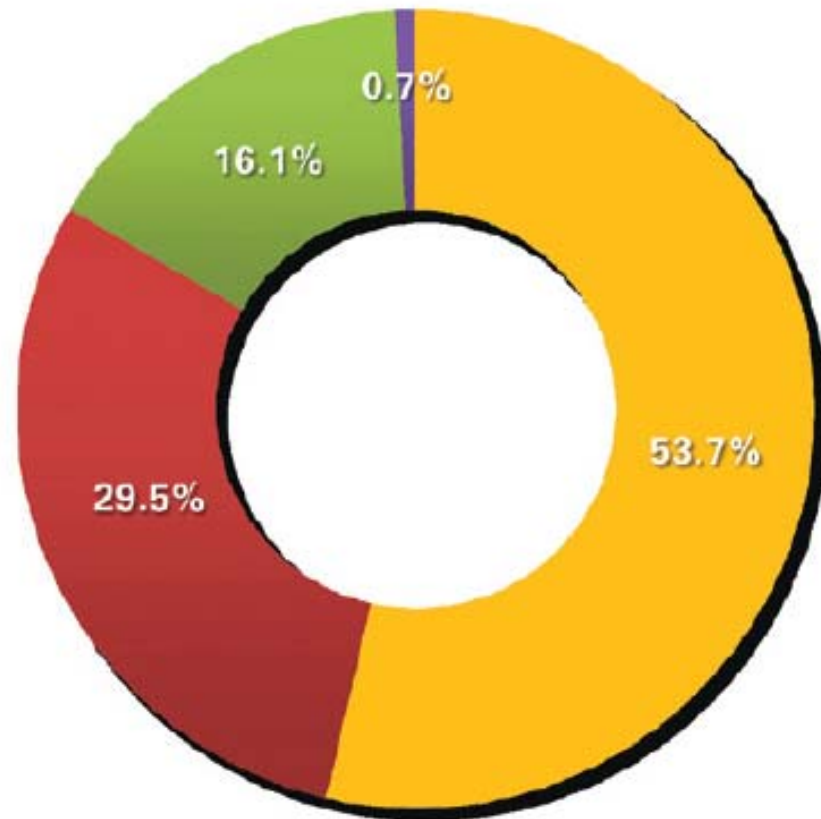
*As new emissions trading schemes and other policies are implemented, do you think there will be a shortage of qualified GHG experts in the marketplace to support these schemes and policies?*



# Workforce Needs Survey

*What do you think is the risk that carbon markets will suffer from problems similar to those symbolized by the Enron, WorldCom and Tyco accounting scandals?*

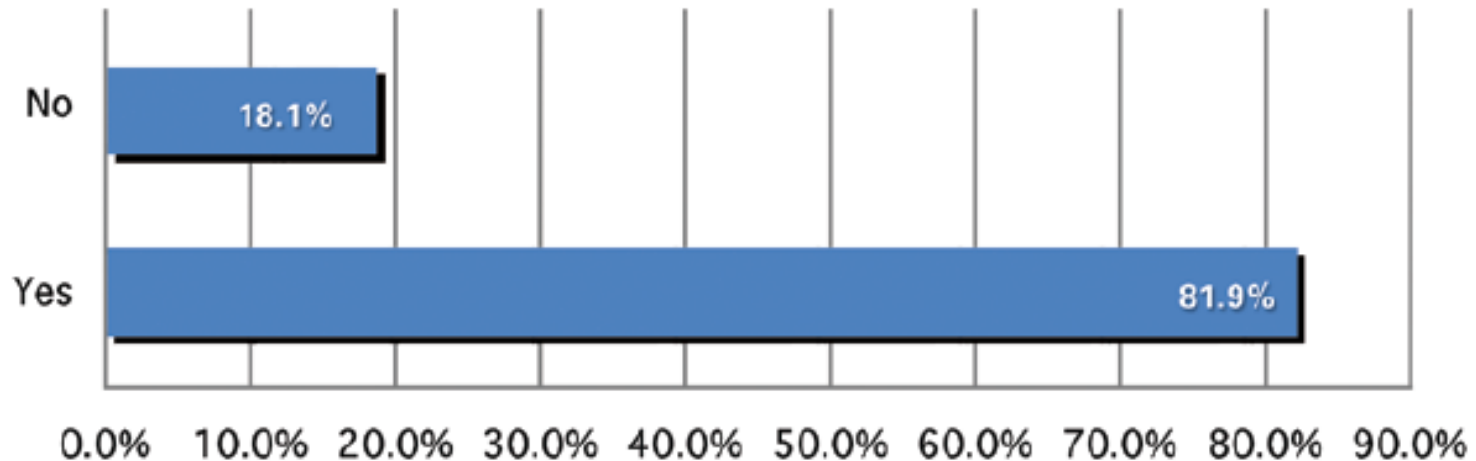
- High Risk
- Moderate Risk
- Low Risk
- No Risk



# Workforce Needs Survey



*Do you think our educational universities and institutions are adequately training new graduates with greenhouse gas, accounting and management skills?*



# Back End: Program-specific expert training

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- Designing accreditation program and mandatory verifier training for Regional Greenhouse Gas Initiative
- UNFCCC Expert Reviewer training and certification testing for Kyoto Protocol compliance process
- Training Kyoto Protocol's Joint Implementation programme verifier accreditation assessors



# Publicly available e-learning training

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- Carbon markets
- Entity-level accounting
- Project-level accounting
- Sector-specific methodologies
- Validation and verification
- Accreditation of verifiers
- IPCC Guidelines
- Climate Risk (Carbon Disclosure Project)

# Optimal training solution

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- E-learning to provide global access and low cost delivery of training
- Courses developed and instructed by world leading experts
- Collaboration between UN, governments, NGOs, corporations, and other market participants
- Course translation and multi-lingual instruction forthcoming
- Significant financial assistance provided to learners in developing world

# Who do we train?

**Breakdown: 1/3 consultants; 1/3 corporates;  
1/3 government/NGO/IGO**

- Engineers and scientists as well as the non-technical
- Lawyers
- Consultants
- Government staff
- Non-profit staff
- Academics
- Journalists



**Learners from  
over 30  
countries!**

# Offered Courses

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- Basics of organizational GHG accounting (w/ WRI)
- Basics of project-level GHG accounting
- GHG information management systems
- Carbon Disclosure Project (w/CDP)
- GHG verification for inventories & projects (w/RGGI)
- Introduction to carbon markets (w/ Point Carbon)

# Upcoming Courses

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- o Clean Development Mechanism and Joint Implementation (w/ World Bank)
- o Forest carbon inventories and sequestration projects
- o Sectoral courses on: landfill methane; coalmine methane; energy efficiency; stationary combustion
- o Accreditation assessment for verifiers (w/RGGI)
- o Introduction to climate change

# How it works

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- Access to world class instructor for first month
- Course material available for 12 months
- Learn at your own pace, on your own time
- Integrated quizzes and exercises reinforce concepts
- Cumulative exam at course conclusion tests proficiency

# Example: “Basics of Organizational GHG Accounting”

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## **16-20 hour course on GHG inventory reporting**

- Built on GHG Protocol and ISO 14064: Part 1
- ...basis for lion's share of global GHG reporting
- Stepwise approach to inventory reporting from principles to process
- Designed for practitioners incorporating best practice and common challenges

# Lesson 5: Tracking, calculating, reporting, & managing GHG emissions



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Base Year

## What is a Base Year?

### What is a base year?



A base year is the year in history against which a company's emissions are tracked over time. It can be either one year or a series of consecutive years.

Typically, greenhouse gas emission inventories are summarized on a calendar year (*i.e.*, January 1 through December 31) basis, although other annual periods are acceptable (*e.g.*, fiscal budgeting year).

### GHG Protocol Corporate Standard

The GHG Protocol Corporate Standard requires that organizations:

- ▶ Choose and report a base year **for which verifiable emissions data are available.**
- ▶ *Specify their reasons for choosing that particular year.*
- ▶ *Develop a base year emissions recalculation policy and apply it in a consistent manner.*
- ▶ *Clearly articulate the basis and context for any recalculations to historical emissions estimates for the organization.*



# Membership platform

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- Web 2.0 platform to connect globally with peers
- Next iteration of popular technical GHG forum: GHG Experts Network
- Planned integration with Institute course delivery, credential tracking and forthcoming professional certification

# Contact us

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