## **CLIMATE LEADERS**

SETTING THE STANDARD IN GREENHOUSE GAS MANAGEMENT

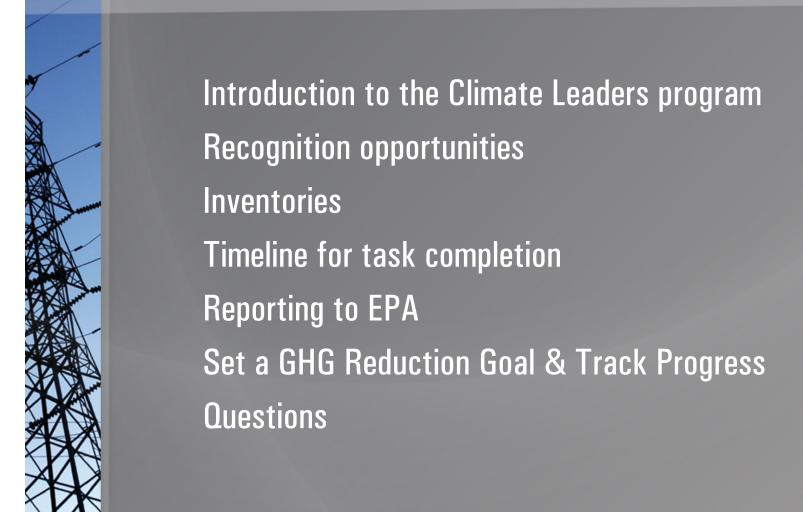
# **Introduction to the Climate Leaders Program**: For Low Emitter Partners







## Webinar Agenda









## **EPA Climate Leaders**



- Largest corporate greenhouse gas goal-setting program, with over 8% of U.S. GHG emissions
- Total annual U.S. revenue of the partnership represents 10% of the U.S. Gross Domestic Product
- Goals pledged in program reduce annual emissions equivalent to 9 million cars
- Over 200 Partners of all sizes in many sectors, with operations in all 50 states
- Climate Leaders started in 2002 with 11 charter partners
- Related EPA programs for small businesses:
  - Energy Star: www.energystar.gov
  - Green Power Partnership: www.epa.gov/greenpower



## **Climate Leaders for Low Emitters**



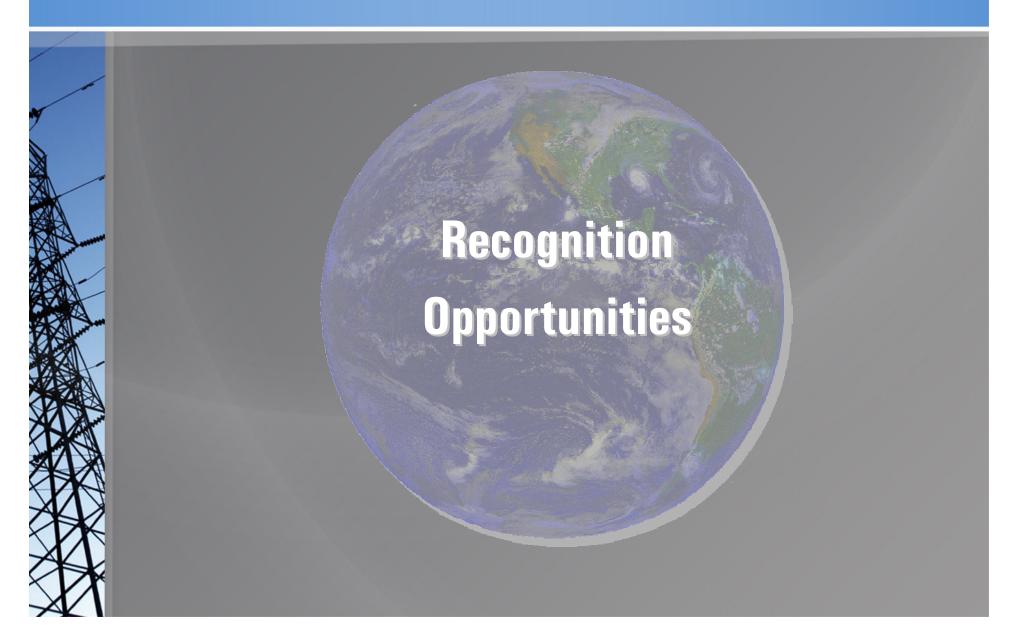
- Growing interest by small businesses wishing to take action on climate prompted us to create simpler, non-technical tools specially designed for your needs
- Low emitters are defined as office-based organizations, suppliers to Climate Leaders Partners, and public institutions such as government agencies and universities
- Low emitters typically have total corporate-wide emissions equal to less than 10,000 metric tons of CO<sub>2</sub>-equiavalent
- Tools are divided into four steps that you can tackle or delegate at your convenience:
  - Get started
  - Calculate GHG Emissions
  - Create an Inventory Management Plan
  - Set a Reduction Goal & Track Progress
- Technical help is provided



## **Getting Started in the Program**

- Partnership Agreement
- Kick off webinar (Partnership effective upon completion)
- Send in response to information request for web site, receive logo and technical assistance info
- Start using tools:
  - Low Emitter Guide to Reducing Greenhouse Gas Emissions
  - Inventory Calculator for Low Emitters
  - Inventory Management Plan (IMP) for Low Emitters







## **Outreach & Recognition for Partners**

- Partner profile on web page
- Logo use with permission
  - Corporate-wide, not product specific
- EPA & Partner press releases
- Public Service Announcements (PSA)
  - 2007-8 campaign audience of 6 million in Forbes, Kiplingers, Audobon, Fast Company
- Special advertising opportunities
- Co-marketing ideas welcome
- October 2008 Partners Meeting
  - Details on web site Events page



www.epa.gov/climateleaders/communications



## **Credible Corporate Climate Strategy**



## Climate Leaders works with companies to develop a long term comprehensive GHG management strategy

- Road-tested with over 200 partners from every major sector across the country
- 3 critical components to credible strategy
  - Component 1: Complete Corporate-Wide GHG Inventory
  - Component 2: Develop Inventory Management Plan (IMP)
  - Component 3: Set Aggressive Corporate-Wide GHG Reduction Goal
- Annual reporting to EPA creates lasting record of accomplishments and identifies company as corporate environmental leader



## **Program Participation Steps**

### **Partner Joins Program**



EPA assists Partner in developing inventory and inventory management plan (typically around 6 months)

Partner sets corporate wide 5-10 year GHG reduction goal, domestic or global

Partner may participate in meetings, public outreach, press events, etc.

Partner reports annual inventory data to EPA and documents progress toward goal



**Partner Achieves Goal** 







## **Step 1 - Get Started**

## **Basics of a Climate Leaders GHG Inventory**



A GHG inventory lists all emissions sources and associated emissions quantified using standardized methods. Climate Leaders uses the International WRI/WBCSD GHG Protocol

- Required Sources
  - Corporate-wide (all U.S. operations)
  - 6 major GHGs
  - Direct emissions
  - Indirect emissions from electricity, heat, and steam
- Optional Sources
  - International operations
  - Offset projects
  - Employee travel and commuting
  - Product transport



## **Step 1 - Get Started**

**Develop Inventory: Organizational Boundaries** 



## Which facilities should you include?

- Equity Share Approach- by ownership, or
- Control Approach- by control
  - Financial control versus operational control

Approach matters most for treatment of partially owned or operated facilities (joint ventures, subsidiaries) and for lease agreements



## **Step 1 - Get Started**

**Develop Inventory: Operational Boundaries** 



## Which sources of emissions should you include?

- Stationary Combustion of fossil fuel HECS
- Process emissions (typically not applicable to low emitters)
- Mobile Sources
- Refrigeration/AC
- Purchased electricity or steam
- Other Sources: backup generators, fuel for heating, corporate aircraft, anaerobic wastewater treatment.

   The source of the source of
- Optional Sources (e.g., business travel)



## **Step 1 – Get Started**

**Develop Inventory: Choose a Base Year** 



## What should be the base year?

- Typically the most recent year for which comprehensive data is available
- Base year Adjustments:
  - Acquisitions/divestitures: Adjust your base year data when these occur
  - Organic growth/decline: Do not adjust your base year data



## **Step 2 – Calculate Emissions**

## **How to calculate emissions?**

- Partners should use the EPA Climate Leaders Inventory
  - Calculator for Low Emitters
    - Based on Climate Leaders guidance documents
    - Calculates corporate-wideGHG emissions
    - Includes calculation methods for optional sources



This calculator is designed as a simplified calculation tool to help organizations in estimating their greenhouse gas (GHO) emissions for reporting to the EPA's Climate Leaders program. All methodologies and default values provided are based on the most current Climate Leaders Greenhouse Gas inventory Protocol guidance. The calculator will determine the direct and indirect emissions from all sources at a company when activity data is entered into the various sections of the workbook.

### Tool Instruction

- (A) Click on the grey baxes below to go to the appropriate Tool Sheet
- (B) Enter data in Tool Sheet in ORANGE cells only. Final GHG emissions will be provided in CQ equivalent emission in RULE or GREEN cells. If data is not known or applicable, force of the cells of the
- in BLUE or GREEN cells. If data is not known or applicable, leave default value (blank, zero or other) in cell.
- (C) Enter data in appropriate units, if needed convert units prior to entering into tool.
  (D) Guidance for each calculation method is provided in the references at bottom of each sheet

### Tool Sheets

Direct 1.0	Direct Emissions from Stationary Combustion Sources - Traditional Sources
Direct 2.0	Direct Emissions from Mobile Sources
Direct 3.0	Direct Emissions from Refrigeration and Air Conditioning Equipment
Direct 4.0	Direct Emissions from Fire Suppression Equipment
Direct 5.0	Direct Emissions from Stationary Combustion Sources - Gas Waste Streams
Indirect 1.0	Indirect Emissions from Purchase of Electricity
Indirect 2.0	Indirect Emissions from Purchase of Steam
Optional 1.0	Optional Emissions from Business Travel
Optional 2.0	Optional Emissions from Employee Commuting
Optional 3.0	Optional Emissions from Product Transport
Conversion Factors	Useful Conversion Factors

Version Notes:

Tool release date: July 1, 2008



## Step 3 – Create an IMP



## What is an Inventory Management Plan?

- An Inventory Management Plant (IMP) is a Partner developed collection of standard operating procedures that documents the inventory development process for EPA
  - EPA provides checklist of components for good IMP to use as guideline when preparing documentation
  - EPA offers a streamline IMP for low emitter Partners
  - EPA offers technical assistance to help companies complete IMP documentation



# **Step 3 – Create an IMP Benefits of an IMP**



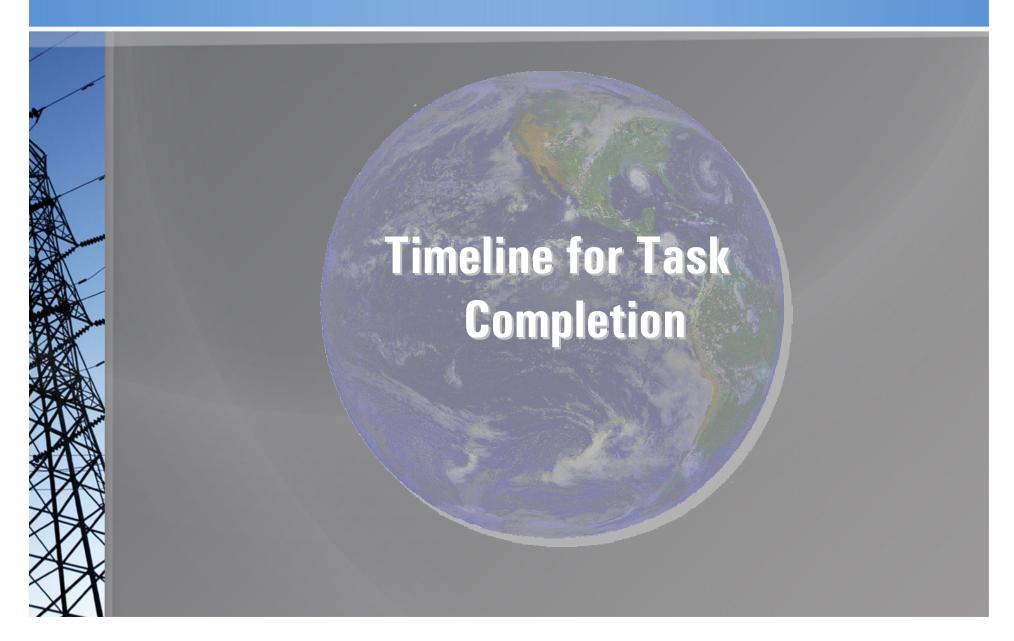
- EPA review of a company's IMP provides assurance that Partners develop a high-quality inventory that is consistently maintained and updated over time
  - Institutionalizes inventory process
  - Leads to comprehensive & credible data management
  - Increases efficiency/lowers costs by centralizing processes
  - Increases accuracy and transparency
  - Facilitates long-term emissions/goal tracking
  - Facilitates documentation of capital savings
  - Allows for continual improvement



# **Step 3 – Create an IMP Ensuring Credibility**

- EPA technical assistance for inventory/IMP development and reporting process
- Desktop reviews of corporate level inventory data and how IMP components are addressed
- Final review of IMP
  - Includes a review of how IMP is implemented at the facility level
- Climate Leaders does not offer third-party verification, but meeting reporting requirements will ensure that credible/verifiable inventory process is in place
  - Third-party verification option (must meet same criteria as Climate Leaders reporting requirements)







## **Year 1 (Base Year Data)**

**Partner Joins Climate Leaders** 

EPA Provides Technical Support on Inventory and IMP as Needed

Partner Submits Draft IMP Documentation and Draft Inventory Summary for Review

EPA Conducts Desktop Review of Corporate Level Data and Offers Desktop Review of Facility Level Data

Feedback on Draft IMP Documentation and Draft Inventory Summary Provided to Partner

**Final IMP Review** 

Feedback on Final IMP Review Provided to Partner

Partner Makes Any Appropriate Changes and Submits Final Base Year Inventory Summary and IMP Documentation

**Kick Off Call** 

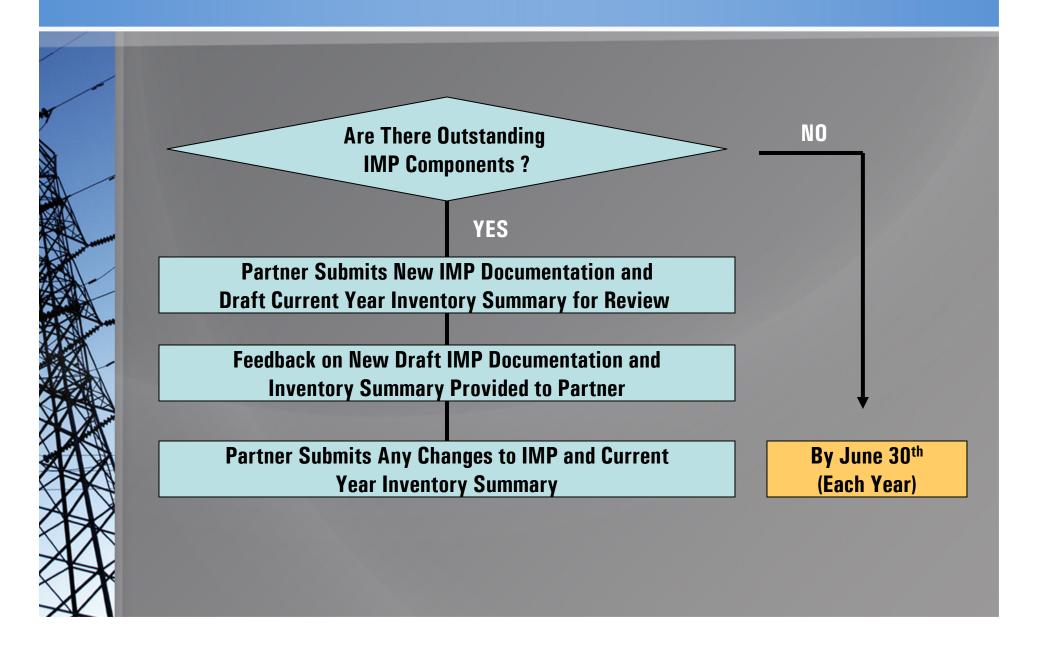
Within 5 Months

Within 6 Months

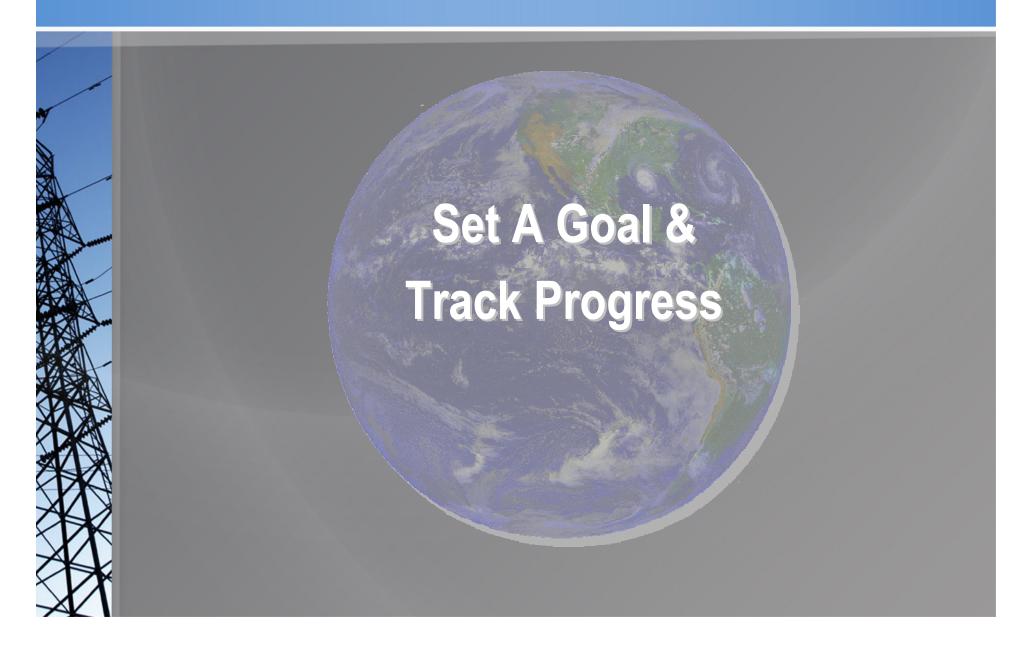
Within 2 Weeks
After Final Review



## Year 2 Through Goal Year





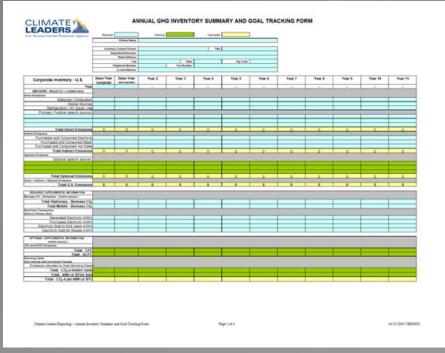




# Step 4 – Set a Goal & Track Progress Reporting to EPA

## What are the reporting requirements?

- Partners report their base-year emissions to EPA
  - Emissions are reported at a corporate-wide level using the Climate Leaders inventory reporting form
  - GHG emissions are reported in terms of  $CO_2$ -equivalent emissions
- Partners provide EPA
   a copy of their final IMP
- Partners provide annual updates to inventory
- Partners provide IMP updates as necessary





# Step 4 – Set a Goal & Track Progress Set long-term GHG reduction goal



## More than half of Partners have already set reduction goals, others completing inventories before announcing

- Absolute Goal
  - Sonoma Wine Co. to reduce U.S. GHG emissions by 15% from 2005 to 2010
- Normalized Goal
  - Lincus Inc. to reduce U.S. GHG emissions by 30% per square foot from 2006 to 2011
- Index Goal
  - Ball Corporation to reduce total U.S. GHG emissions by 16% per production index from 2002 to 2012
- Net Zero ("Carbon Neutral")
  - 3Degrees to achieve net zero U.S. GHG emissions by 2007 and maintain that level through 2012



# Step 4 – Set a Goal & Track Progress Ensuring leadership goals



## Goal Criteria

- Corporate-Wide (including at least all U.S. operations)
- Based on the most recent base year for which data are available
- Achieved over 5 to 10 years
- Expressed as an absolute GHG reduction or as a decrease in GHG intensity
- Aggressive compared to the projected GHG performance for the sector

## Goal Development Process

- Partner proposes a reduction goal
  - Informal proposal encouraged
- EPA evaluates goal
- If goal does not meet Climate Leaders' criteria, Partner reassesses opportunities and proposes a new goal



# Step 4 – Set a Goal & Track Progress Creating a Performance Benchmark

- Three models to determine business-as-usual sector improvement rates & current average intensity rates based on company's sector
  - ICF's Integrated Planning Model (IPM)
    - Typically used for Partners in the electric generation sector
  - DOE's National Energy Modeling System (NEMS)
    - Typically used Partners in the industrial sector
  - Bureau of Labor Statistics (BLS) Forecast input/output tables for the US economy
    - General analysis for all Partners that estimates fuel quantities purchased/\$output



# **Step 4 – Set a Goal & Track Progress Sample Goal Setting Analysis**



- California Portland Cement Company
  - Goal Proposal: 9% per production index from 2003 to 2012
  - Sector's forecasted benchmark improvement rate (NEMS model) is a reduction in CO<sub>2</sub> emissions by 4.12% per ton of cement output by 2012
  - California Portland exceeds forecasted business as usual (BAU) improvement rate by 118%
  - Additional Factors: Energy Star Partner (Partner of the Year 2005), current intensity better than sector average



# **Innovative Climate Leaders Partners' Projects**



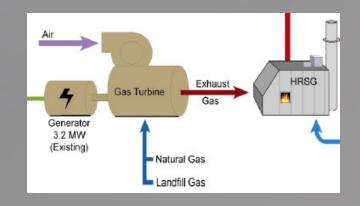
- Energy and Climate
- Alternative Fibers
- Bank of America
  - LEED Projects
  - Server and Network
     Systems Review
     (Automated Shut-offs, Unplug Unused Servers, Advanced Cooling)
- SC Johnson
  - Methane Cogeneration Plant













# Thank You and Welcome to Climate Leaders!

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