



CASE STUDY

Climate Change Central Develops Nitrogen Quantification Protocols with ClimateCHECK

Climate Change Central is a unique public-private partnership that promotes the development of innovative responses to global climate change. The organization helps Alberta businesses, governments and other stakeholders work together to pursue greenhouse gas reduction initiatives.

In 2007, Climate Change Central was collaborating with Alberta Environment, an international agricultural product supplier, to implement North America's first offset system for a regulated jurisdiction. As a result, Climate Change Central needed to develop quantification protocols without the benefit of historical precedence—but while under the intense scrutiny of the emerging carbon market.

Climate Change Central engaged ClimateCHECK to provide a technical background document for Alberta Environment's proposed offset quantification protocol. ClimateCHECK was chosen for its previous work in developing successful agricultural quantification protocols for the Alberta Offsets System.

In addition, ClimateCHECK was a main author of ISO 14064-2 International Standard for GHG Projects, and a main contributor to WRI/WBCSD GHG Protocol for Project Accounting. ClimateCHECK also advises offset program development for a major participant in the voluntary greenhouse gas credit market. With this expertise and experience, ClimateCHECK was able to provide credible, practical, and innovative GHG management solutions to Climate Change Central.

ClimateCHECK Quantifies Nitrogen Use Efficiency to Encourage GHG Emissions Reductions

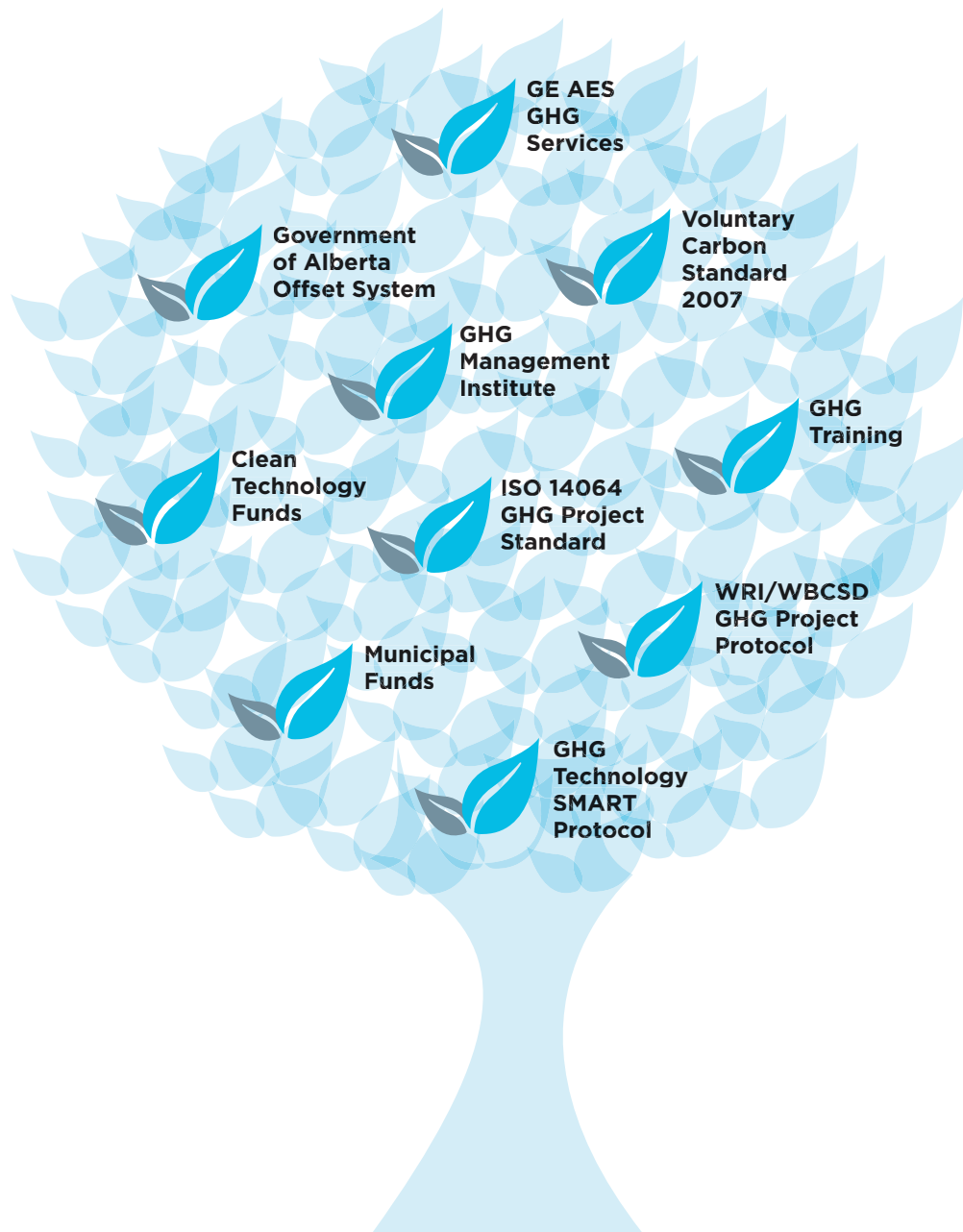
Nitrous oxide emissions from fertilized soils are an important contributor to global GHG emissions. They're created when too many soluble nitrogen compounds accumulate in soil. ClimateCHECK developed a protocol to quantify nitrous oxide emissions reductions. This quantification will help mitigate climate change by providing incentives to decrease nitrogen fertilizer waste—thereby also decreasing crop input costs.

Project Details

- Completed:** February 2008
- Service Type:** Preliminary phase to protocol development
- Protocol Used:** ISO 14064 standard
- Accomplishments:**
- Identified the baseline scenario for nitrogen use efficiency
 - Assessed science of nitrogen fertilizer use, which impacted GHG emissions
 - Selected management practices with the best potential to decrease on-farm nitrogen fertilizer GHG emissions
 - Provided the Government of Alberta with the technical basis for a high-standard quantification protocol

“ClimateCHECK is a GHG management services provider we can trust in developing and validating GHG quantification protocols for offset projects. ClimateCHECK’s formative role in the emerging standards for program design and professional practice makes their advice particularly useful to our clients in Alberta, the first GHG-regulated jurisdiction in North America.”

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Director of Policy Development and Offset Solutions
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ClimateCHECK's Contribution to the Growth of the GHG Market

The GHG Experts at ClimateCHECK have been major contributors to the development and application of GHG standards, protocols and programs used globally to establish best practices in the carbon markets and to achieve the double dividend of environmental and economic benefits.

To learn more, visit Climate-CHECK.com, call us at **1.888.241.8003**, or e-mail: info@Climate-CHECK.com

