

**QUANTIFICATION PROTOCOL FOR
BIOFUEL PRODUCTION AND USAGE:**

Technical and Policy Issue Summary

Submitted to:

Alberta Environment

and

Alberta Agriculture, Food and Rural Development

March, 2007

Background

In conjunction with the development of the protocol document, a listing of key technical and policy issues were tracked for discussion as part of the technical and stakeholder review processes. The following document provides a listing of the key issues for discussion. Many of the issues have both a technical and policy component and are listed under both sections, as required.

Summary of Technical Issues

The following technical issues may be considered as part of the technical and stakeholder review processes:

- Are the full range of process outputs covered under this protocol
 - Food/industrial grade CO₂ yield?
- Availability of emission factors for the range biofuels
 - Is there a standardized listing?
- Use of the IPCC default methodology for the calculation of emissions from landfilling of materials as a means of ensuring precision, accuracy and practicality.
- Process emissions from biofuel facilities are biogenic (CO₂) and methane/nitrous oxide emissions are not material.

Summary of Policy Issues

The following policy issues may be considered as part of the technical and stakeholder review processes:

- Can the life cycle approach cover the ownership questions
 - Downstream emission reductions from fossil fuel replacement
 - Upstream to fuel production and process
- Use of the IPCC default methodology for the calculation of emissions from landfilling of materials as a means of ensuring precision, accuracy and practicality.
- Exclusion of emissions upstream for electricity production as they are covered by other regulations.