

Compendium of Federal Offset Protocols

Version 1.0
June 2022

Canada's Greenhouse Gas
Offset Credit System



Environment and
Climate Change Canada

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Document revision history

Revision number	Date	Summary of changes
1.0	June 8 th 2022	Initial version including <i>Landfill Methane Recovery and Destruction Protocol Version 1.0</i>

Introduction

Canada's Greenhouse Gas (GHG) Offset Credit System is established under Part 2 of the *Greenhouse Gas Pollution Pricing Act (GGPPA)*, to encourage cost-effective domestic GHG emissions reductions from activities that are not covered by carbon pollution pricing and that go beyond legal requirements.

Canada's GHG Offset Credit System consists of:

- regulations to implement the operational aspects of the system;
- federal offset protocols that establish the approach for quantifying GHG emission reductions for a given project type; and
- a tracking system to register offset projects, issue and track offset credits, and share key information through a public registry.

The *Canadian Greenhouse Gas Offset Credit System Regulations* (the Regulations) apply to a proponent of a project which is of a type for which a protocol has been included in this Compendium; that aims to generate GHG reductions by preventing GHG emissions or removing GHGs from the atmosphere; and with respect to which the reductions are real, additional, quantified, verified, unique and permanent. The Minister must issue offset credits to a proponent for the period covered by a project report in the amount determined in accordance with subsection 29(2) of the Regulations if requirements of the section 7 and the subsection 29(1) of the Regulations are met.

Protocols

The Regulations require a proponent to register their project using the most recent version of a federal offset protocol that applies to the project when the application for registration is submitted. This version of the protocol will apply to the project for the duration of its crediting period. After an update to a protocol, proponents may opt to use the new version of the protocol. Proponents using the new version of the protocol must ensure their project meets all requirements of this new version and must specify any updates to the registration information in the project report. Note that only one version of a protocol may be used per reporting period.

The proponent must meet requirements set out in the applicable protocol and the Regulations to quantify and report GHG emission reductions generated from the eligible project activities. The federal offset protocols are designed to ensure projects generate GHG emission reductions that are real, additional, quantified, verified, unique and permanent. The protocols are also developed in accordance with the principles of ISO 14064-2:2019 *Greenhouse gases – Part 2 – Specification with guidance at the project level for quantification, monitoring and reporting greenhouse gas emission reductions or removal enhancements* to ensure reported GHG emission reductions generated as a result of implementing a project are relevant, complete, consistent, accurate, transparent, and conservative.

Landfill Methane Recovery and Destruction

Organic material in buried waste decomposes anaerobically and produces methane (CH₄) as a result. The installation of a landfill gas (LFG) recovery and destruction system enables the landfill CH₄ to be converted into biogenic carbon dioxide (CO₂) instead of allowing it to be released to the atmosphere.

The federal offset protocol *Landfill Methane Recovery and Destruction* is intended for use by a proponent undertaking a project that actively recovers and destroys LFG and that is registered in Canada's GHG Offset Credit System to generate offset credits.

GHG emission reductions generated by a project under this protocol can only result from avoided CH₄ emissions achieved through active recovery of LFG from within the project site and its destruction in an eligible destruction device, which can include open and enclosed flares, boilers, turbines, internal combustion engines, stations for the direct injection of upgraded LFG into a natural gas network, or stations for the compression or liquefaction of upgraded LFG prior to its transport and injection into a natural gas network.

Version	Publication date	Status	Eligible for project registration	Protocol download	
1.0	June 8 th 2022	Active	June 8 th 2022 - present	PDF	HTML