

# Bottom-Up Inventory (BUI) Development



**Bottom-up inventories often contain poor source category mapping, inconsistent and outdated methodologies, and brittle assumptions that create problems when GHG emissions are scrutinized.**

Highwood's Bottom-Up Inventory (BUI) Development service strengthens and standardizes your BUI by improving data structure, emission factors, and calculation approaches, so it is consistent, credible, and ready to integrate into measurement-informed workflows.

## Benefits

Improve the credibility and auditability of your inventory, comply with reporting frameworks and identify mitigation opportunities.

## Use cases

- Your current BUI is based on outdated assumptions related to activity and emissions data
- Your current BUI lacks coherent mapping to individual sites and assets
- Your BUI needs to be standardized for participation in measurement-informed reporting frameworks
- You need a quality assurance program to ensure your inventory is updated on a consistent basis

## Inputs

- Current source-level quantification methods and data sources
- Existing tools/templates/systems used to manage the BUI
- Asset/site structure and categories relevant to inventory development
- Any internal standards/governance expectations for reporting

## Outputs

- Review of existing BUI methods and data, with recommended improvements
- Recommendations for data structure, emission factors, and calculation approaches
- Support integrating existing tools/templates/systems into an improved BUI design
- Technical guidance to align with industry reporting frameworks
- Clarified approach for integration into measurement-informed workflows
- Optional ongoing primary support in reporting

## Estimated timeline

4–8+ weeks, depending on asset complexity, existing inventory maturity, and data quality.



## Next step

Speak to a Methane Advisor to review your current BUI development process and define the improvement scope.

