# Verification Protocols and Test Methods

2nd International ETV Forum

Vancouver

March, 2006


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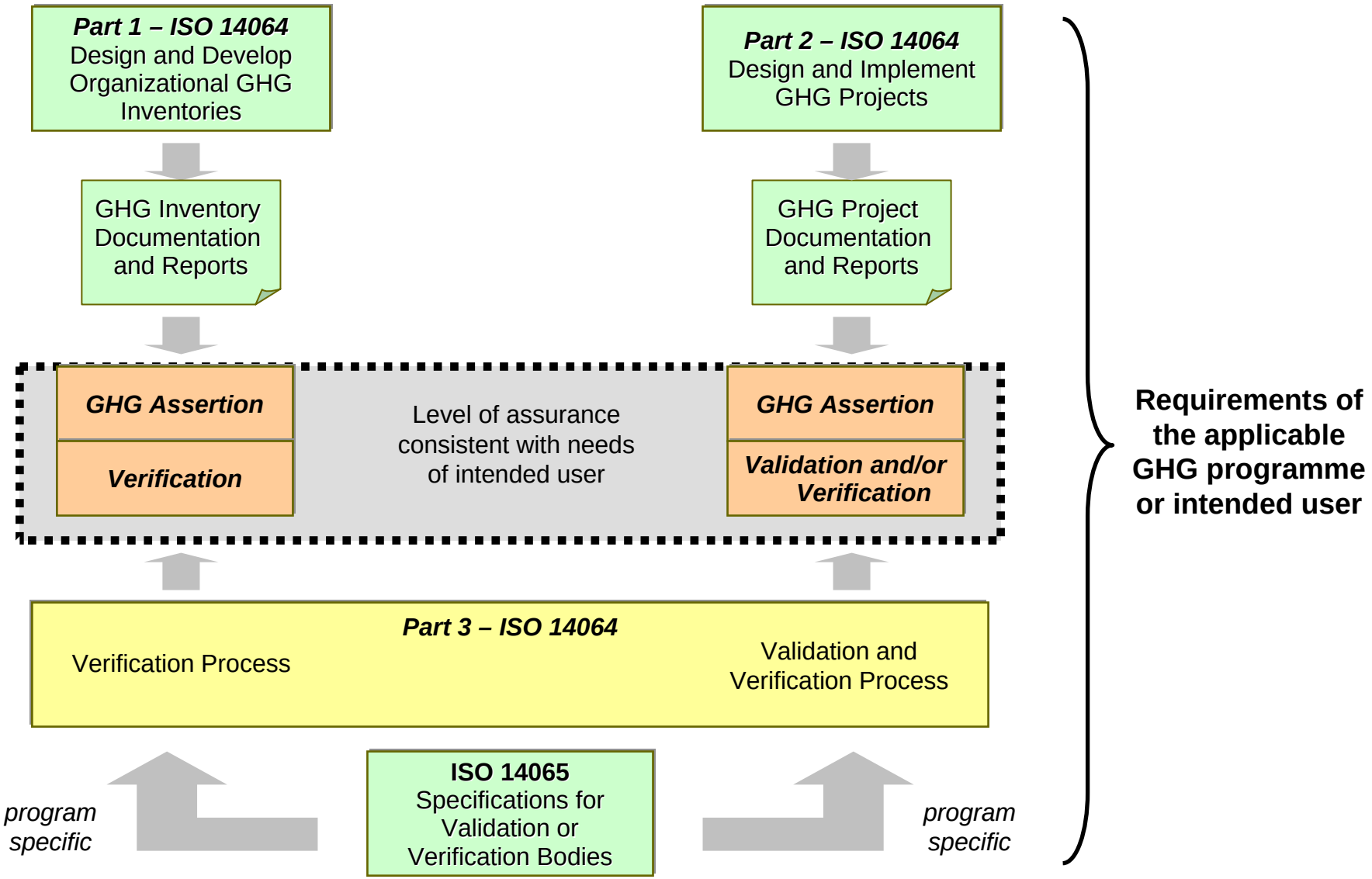
# Greenhouse Gas Measurement

- *Canadian-based provider of services*
  - *technology projects*
  - *greenhouse quantification*
  - *carbon credits*
- *Expertise*
  - *Renewable energy*
  - *Buildings & efficiency*
  - *Agriculture*
  - *Biofuels*
  - *Alternative vehicles*
  - *Waste*
  - *Industrial processes*

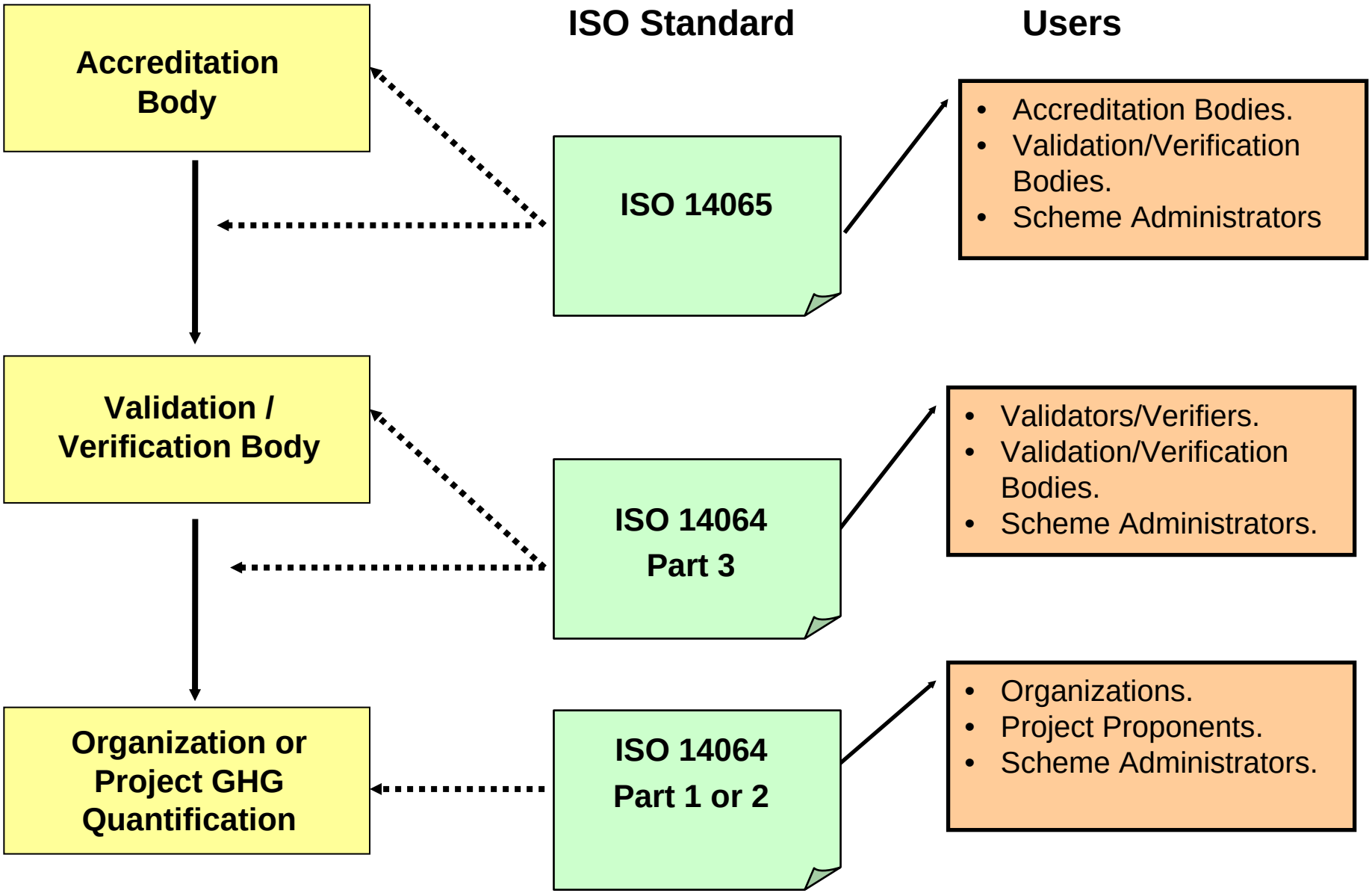
# ETV Mechanisms for cooperation

- Q:
  - What are the most effective mechanisms for cooperation in the development and application of relevant test methods and protocols?
- A:
  - International standards

# ISO 14064/65 Framework

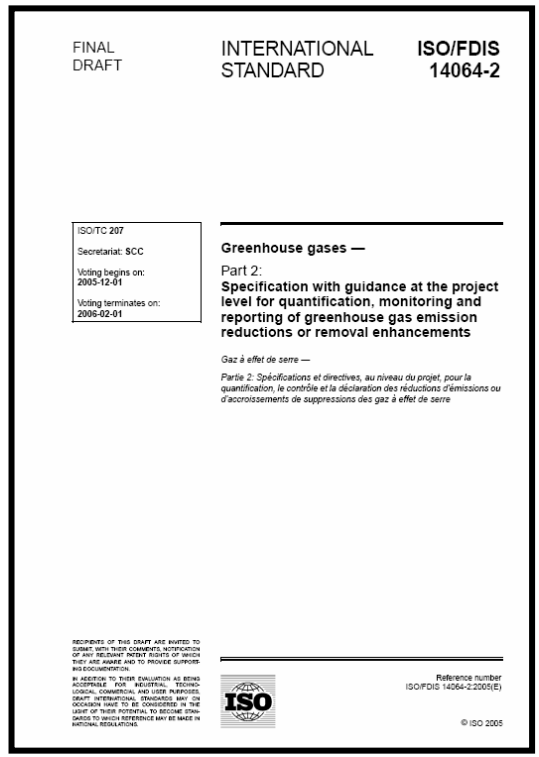


# ISO 14064/65 Users



# Quantification standard
# ISO 14064-2 framework

- 1 Scope
- 2 Terms and definitions
- 3 Principles
  - Relevance
  - Completeness
  - Consistency
  - Accuracy
  - Transparency
  - Conservativeness
- 4 Introduction to GHG projects
- 5 Requirements for GHG projects



FINAL DRAFT

INTERNATIONAL STANDARD

**ISO/FDIS 14064-2**

ISO/TC 207

Secretariat: SCC

Voting begins on:
**2005-12-01**

Voting terminates on:
**2006-02-01**

**Greenhouse gases —**

Part 2:
**Specification with guidance at the project level for quantification, monitoring and reporting of greenhouse gas emission reductions or removal enhancements**

*Gaz à effet de serre —*

*Partie 2: Spécifications et directives, au niveau du projet, pour la quantification, le contrôle et la déclaration des réductions d'émissions ou d'accroissements de suppressions des gaz à effet de serre*

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Reference number
ISO/FDIS 14064-2:2005(E)

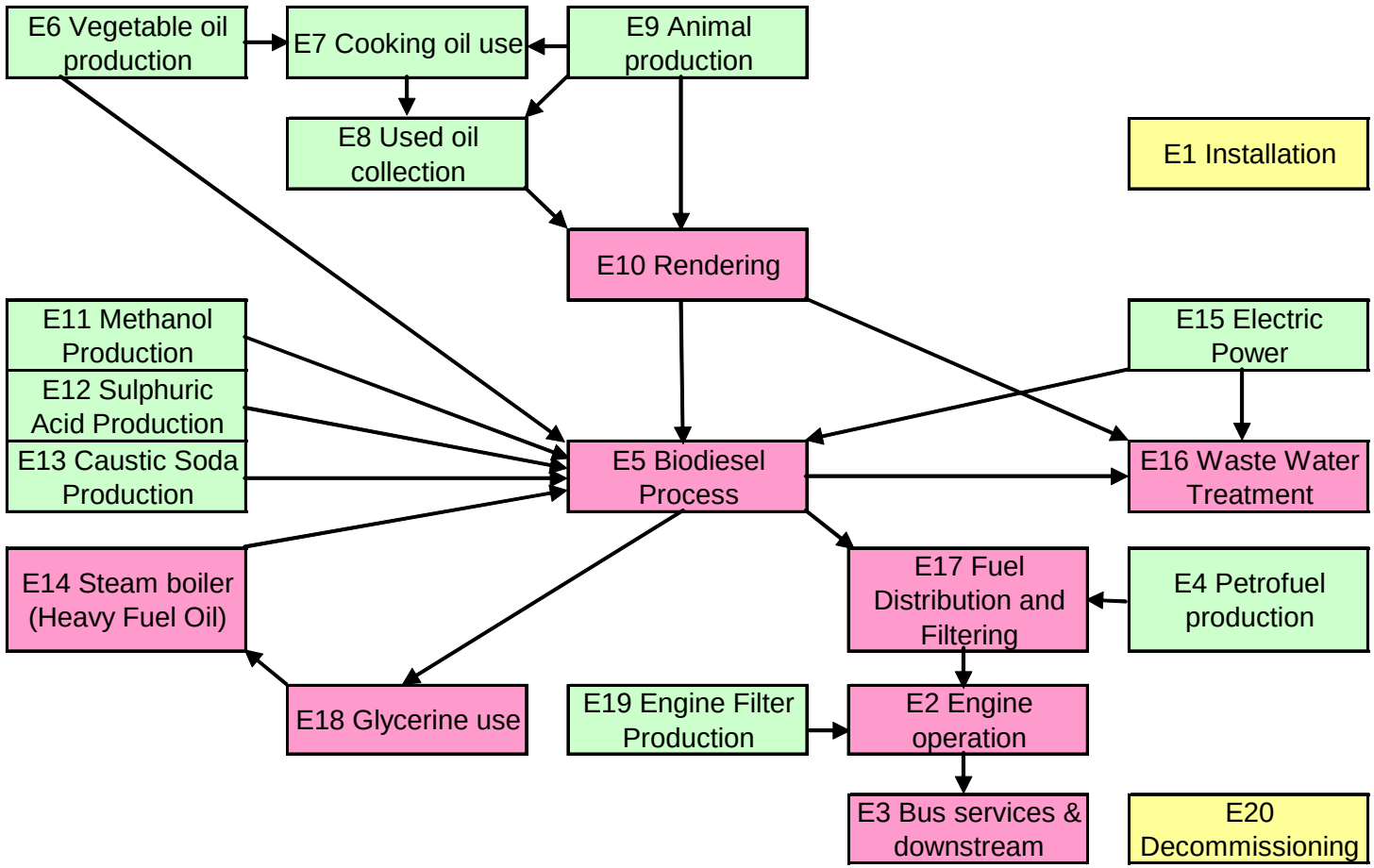
# BIOBUS

- Montreal 2003
- 155 buses
- Viability in routine operation, cold weather

- Société de transport de Montréal (STM), or “BIOBUS” for short
- Rothsay – biodiesel manufacturer
- TEAM

# ISO 14064-2
# 5.3 Identify project SSR's

(GHG sources, sinks, reservoirs)



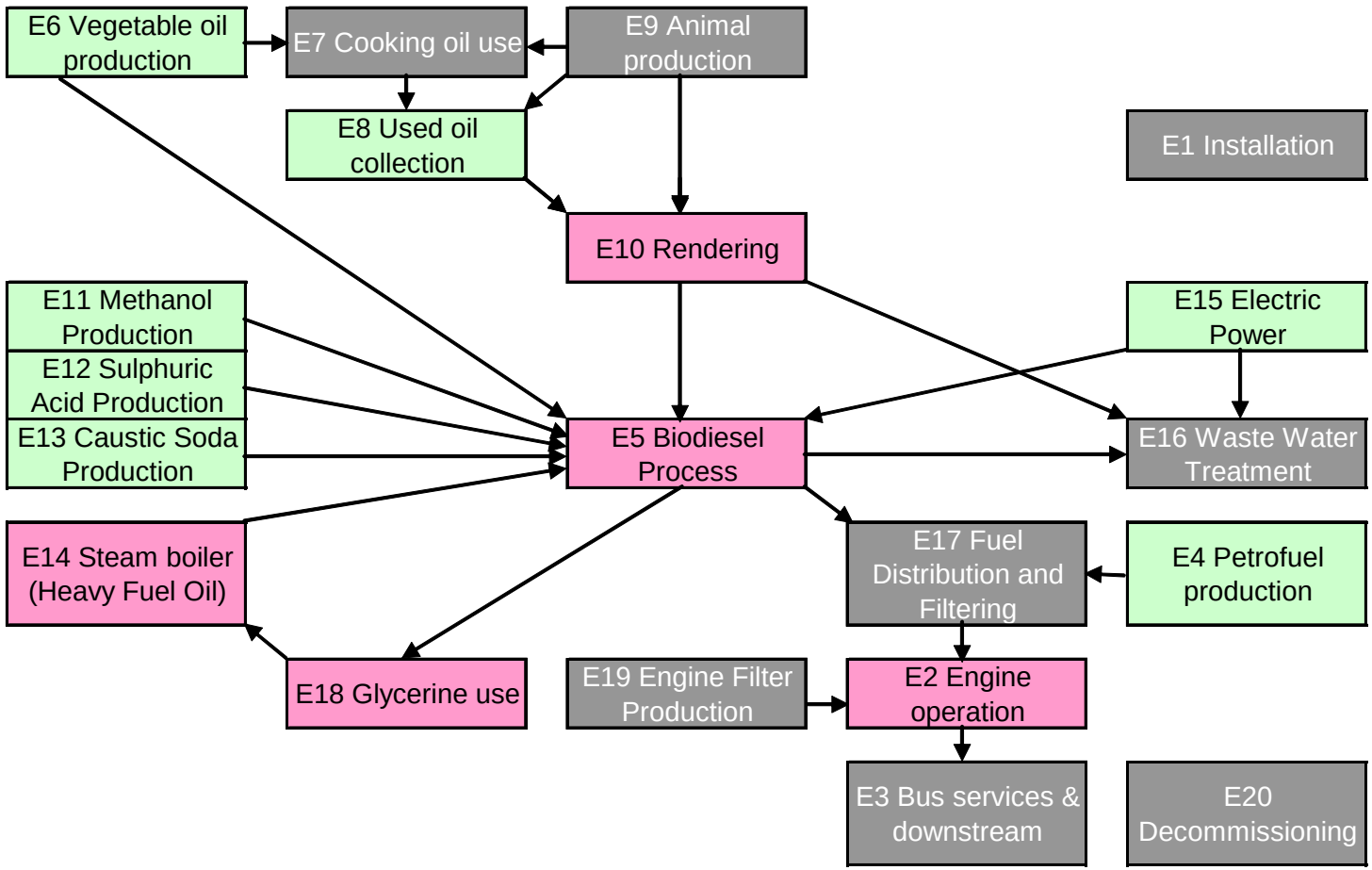
# ISO 14064-2
# 5.6 Relevant SSR's

- Consider only "relevant" SSRs for monitoring or estimation of emissions

- Balance required:
  - Rigour: Completeness → accuracy
    - confidence in GHG reductions
  - Practicality: Effort → increases cost and time required
    - Avoid barriers to projects

# ISO 14064-2
# 5.6 Relevant SSR's

- Consider only "relevant" SSR's for monitoring or estimation



# ISO 14064-2 Key Features in Application for Project Quantification

- Principles
  - Relevance
  - Completeness
  - Consistency
  - Accuracy
  - Transparency
  - Conservativeness
- Manage for
  - Practicality
  - Cost-effectiveness
- Towards
  - Good projects
  - Carbon credits
  - Emission reductions

# Priority areas – for **Carbon Credits**

- Q:
  - What are some of the priority areas where specific test methods and protocols are needed?
  - Offset protocols
    - Int'l: CDM
    - Canada: Offset credits
  - Methodological and sectoral procedures

- GHG project areas
  - Transportation
  - Biofuels & Biomass
  - Waste and Landfills
  - Non-emitting energy
    - Small hydroelectricity
    - Solar energy
    - Wind
  - Building energy efficiency
  - Industrial energy efficiency
  - Industrial processes
  - Agriculture
  - …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