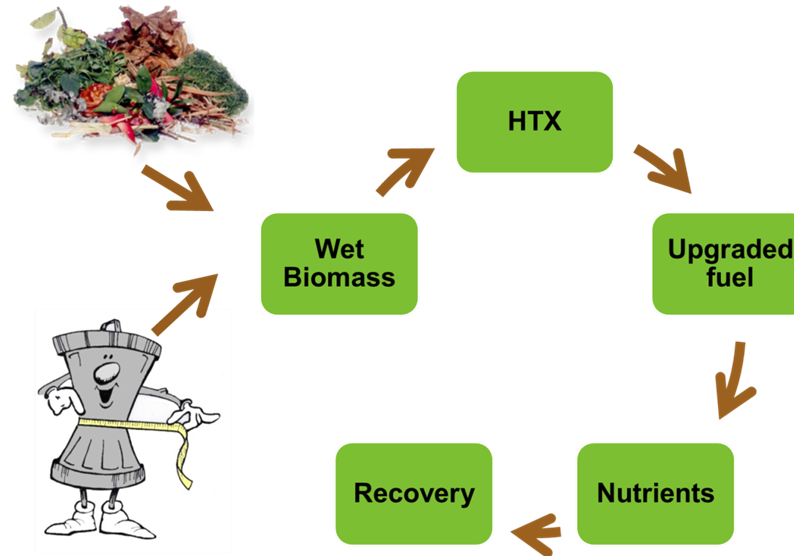


Conversion of Wet Waste to Fuel and Value-Added Products using Hydrothermal Carbonization



Training Course of Hydrothermal Carbonisation of Wet Waste

Course structure

Part 1: Introduction

Part 2: Experimental Procedure 1: Performing laboratory-scale HTC experiments

Part 3: Analytical Methods

Part 4: Experimental Procedures 2: Performing Biological methane potential (BMP)

Part 5: Case study of HTC of food waste

Part 6: Life cycle analysis

Part 7: Qualitative Research



Part I- Introduction

Session 1: Introduction to Hydrothermal conversion

Session 2: Introduction to Hydrothermal carbonisation

Session 3: Application of products



Part 2- Laboratory scale HTC experiments

Session 1: Reactors and standard operating procedures

Session 2: Sample work-up and separation of products

Session 3: Health and Safety considerations



Part 3- Analytical Methods

Session 1: General methods of analysis

Session 2: Specific analysis for energy and agronomic applications

Session 3: Analysis of process waters



Part 4- Biochemical methane potential tests (BMP)

Session 1: Introduction to BMP tests

Session 2: Setting up a BMP test

Session 3: Data Handling and Interpretation



Part 5- Case study of HTC of food waste

Session 1: Review of the behaviour of food waste HTC

Session 2: Introduction to factorial design of experiments

Session 3: Case study of food waste HTC outputs



Part 6- Life Cycle Analysis

Session 1: An introduction to life cycle analysis

Session 2: LCA procedure

Session 3: Case study of life cycle analysis of HTC of wet waste



Part 7- Qualitative Research

Session 1: Surveys

Session 2: Interviews and focus groups

Session 3: Qualitative research case study

