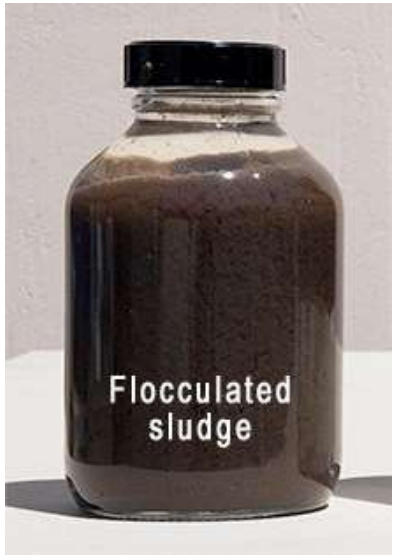

# Wellington Sludge Minimisation Project

## Project Overview

# What is Sludge?



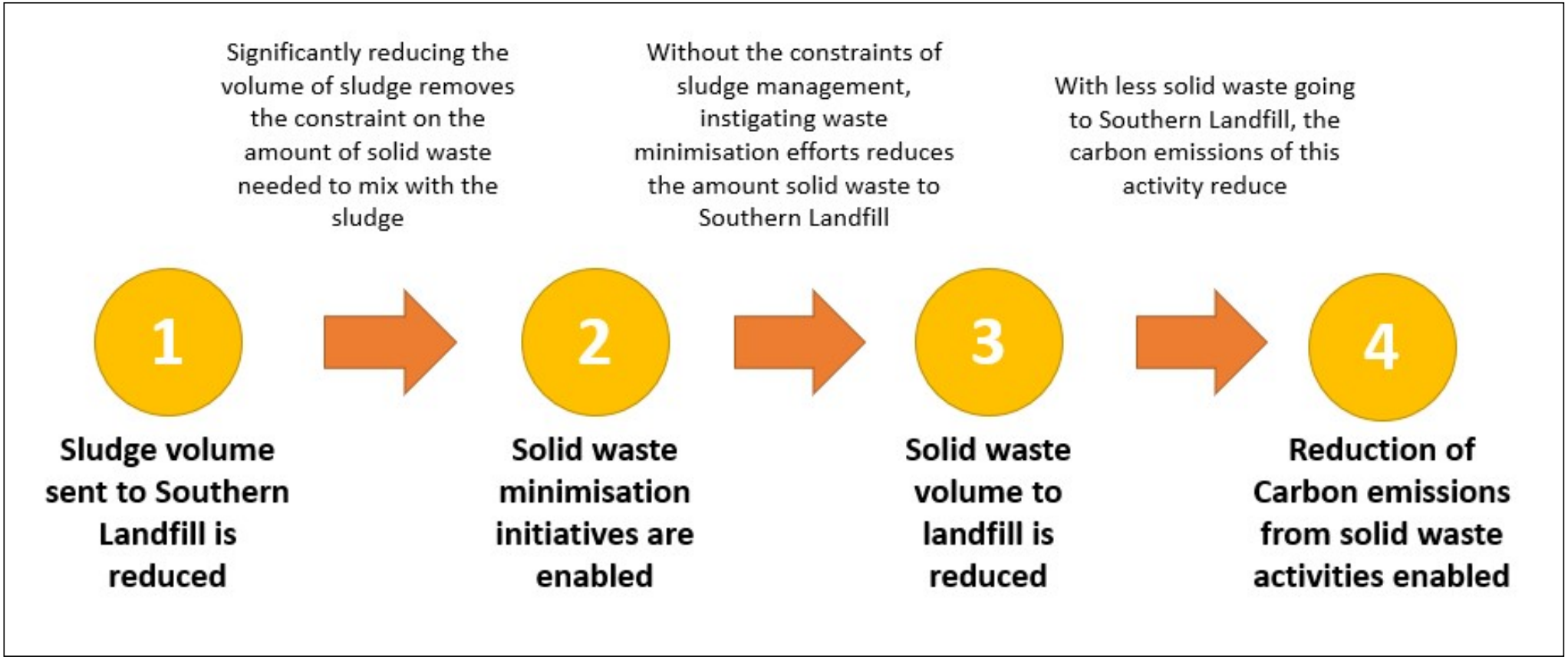

**Sludge is a by-product of the wastewater treatment process. Sludge is produced as part of a healthy wastewater treatment system.**

**There are three key components to sludge:**

- **Water**, which greatly affects volume of sludge going into landfill
- **Organic matter**, which releases odour and carbon emissions when it degrades
- **Inert material** (grit, sand etc)

Sludge naturally contains nutrients, and when it breaks down it produces gases (which contain lots of energy).

# Key Project Drivers



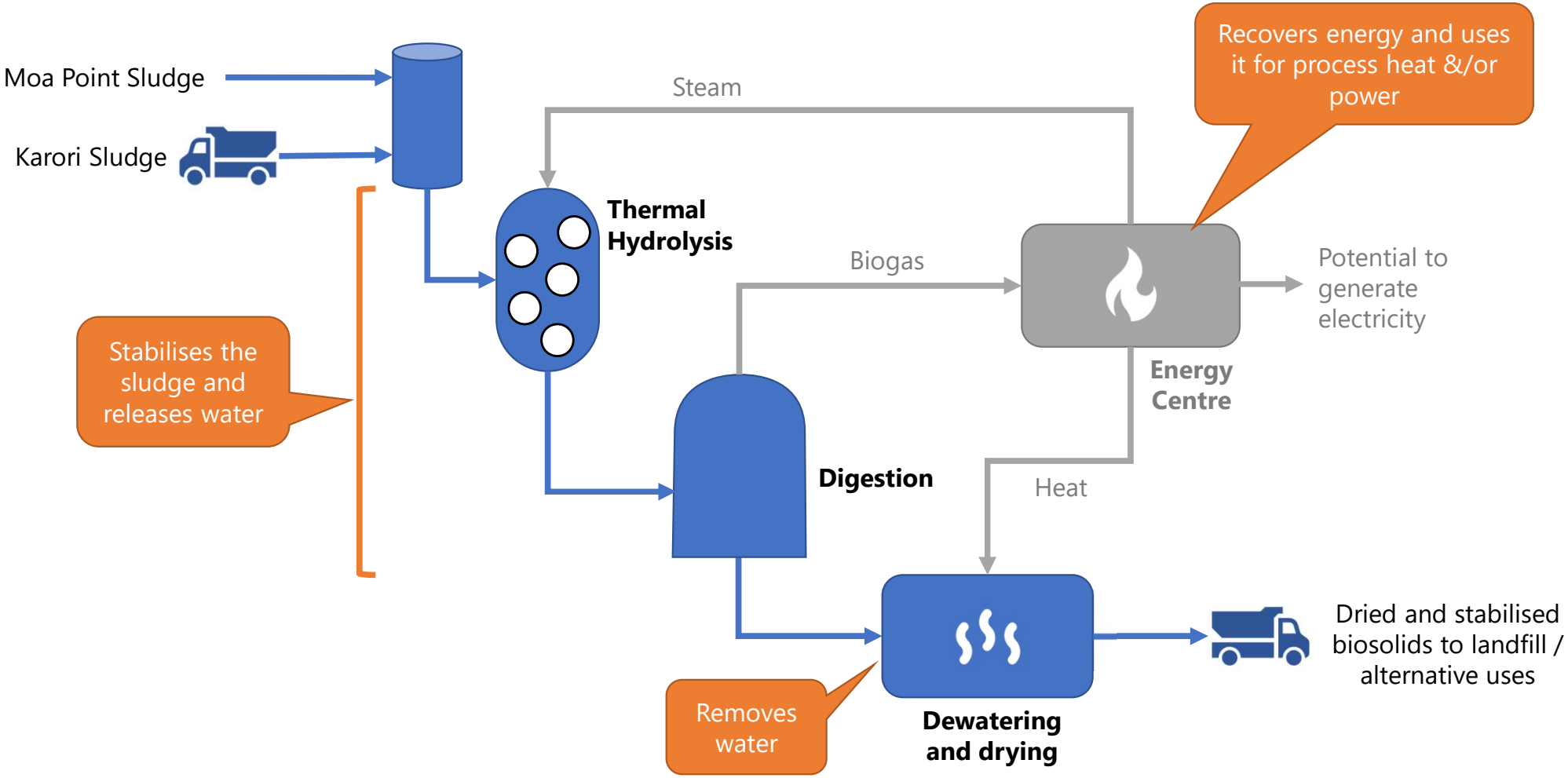
# Project Objectives

1. **Enable Waste Minimisation through Sludge Reduction**
   - Remove operational constraints on landfill
   - Enable waste minimisation initiatives

2. **Significantly Enhance the Resilience of Sludge Management in Wellington**
   - Increasing operational resilience
   - Reducing exposure to external cost factors
   - Planning for growth
   - Providing alternative disposal pathways for sludge

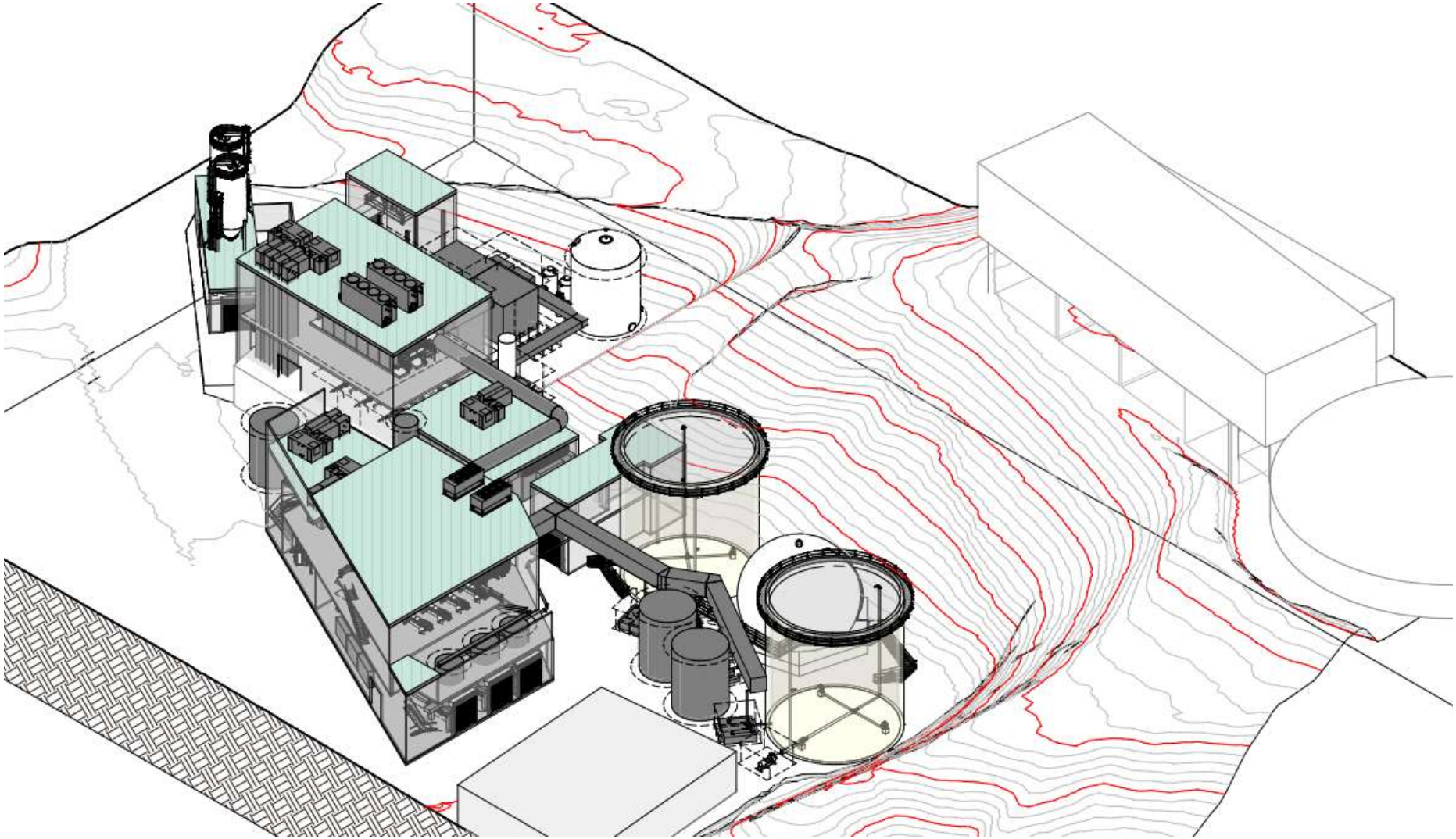
3. **Significantly Reduce Environmental Impacts and Risks**
   - Carbon emissions
   - Odour

# Preferred Process



# Plant Location

# Plant Concept



# Where to from here?

- Preliminary design has commenced
- We are happy to present the design back to you during the design development process
- Applications for resource consents and designations are being prepared. The target is to lodge these applications in May 2022
- We are seeking a construction contractor to support the design process
- The detailed design will be undertaken through most of 2022
- Construction would commence at end of 2022 subject to consents being granted and funding being confirmed