**KVA Linth Project Information**

**Project Developer Website**

KVA Linth https://www.kva-linth.ch/

**Project Location**

Niederurnen, Switzerland

**Project Type**

CO2 Capture

**Project Description**

KVA Linth is a waste-to-energy plant located in Switzerland with an incineration capacity of approximately 115,000 tonnes of waste per year, resulting in about 120,000 tonnes of CO2 emissions (50% of which are biogenic). KVA Linth are currently researching the feasibility of a full scale demonstrator for the carbon capture and storage value chain in Switzerland with CO2 capture at the waste to energy plant.

**Operational Status**

Design & Engineering Phase

KVA Linth have plans for a combined renewal / retrofit of their waste-to-energy plant in 2023-2025. Engineering design of the capture plant is currently underway (began July 2019) with a design and preliminary costs are expected at the end of 2020. Commissioning of the capture plant is targeted for the end of 2025.

**Technology Description**

Capture: KVA Linth are investigating the possibility for post-combustion CO2 capture from the flue gas. This includes the basic design and cost calculation of the capture facility, with capture rates >100 kt/yr. The currently preferred technology is supplied by AKER Carbon Capture S.A. (formerly AKER Solutions).

Part of full-chain project: transport options from KVA Linth to the North Sea by pipeline, and rail tank wagons are also being investigated as part of this project.

**TRL Progression**

Starting: TRL 9

**CO2 Reduction Potential**

Capacity: Potential to mitigate 120 kt/yr CO2.

**Project Financing**

The project is funded by Innosuisse and implementation partners VBSA and KVA Linth and Kantons Glarus, and Zürich. Additional in-kind support provided by SBB Cargo, Carbagas, Chemoil, Equinor, and Shell.