

Use case: Evaluate the impact of different temperature profiles on post-smolt production performance

This use case illustrates how FEEDNETICS™ can be used to evaluate post-smolt salmon performance produced in sites with different temperature profiles, including controlled temperature conditions, as can be found in recirculating aquaculture systems (RAS). This is a relevant topic for the salmon industry, as post-smolt production (up to 1 kg) has become more common to shorten time in sea cages. In particular, this use case was set up to reproduce the Atlantic salmon (*Salmo salar*) growth data obtained from a semi-commercial scale research work upscaled to a 1 million post-smolt operation, considering 2 different temperature scenarios: (i) yearly temperature profile at Ålesund, Norway (data from seatemperature.org) and (ii) a constant average temperature of 13.4 °C to represent the conditions in a RAS system. The key results and outcomes are presented in the figure below.

