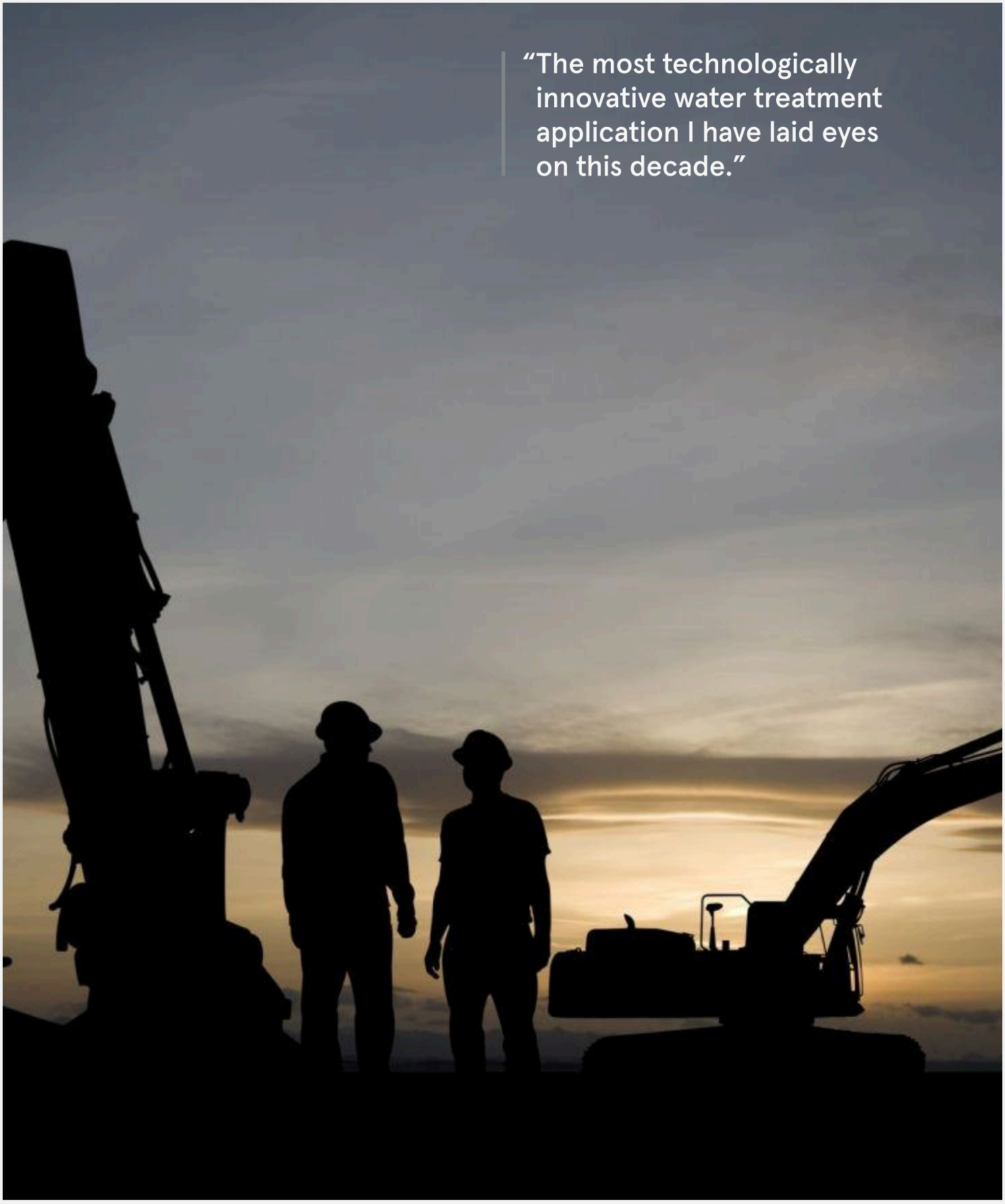

Reference Project

Sludge Dewatering for
Municipal Lagoon System

CarboNet

A regional municipality was dredging a lagoon in preparation for upgrades. Our customer was contracted to dewater the dredged biosolids and enable the construction of the new system.

The problem:

Our customer didn't have enough make-down systems on hand to address the opportunity.

↳ Operators often turn down work or limit job throughput as they lack enough rigs, the rigs are wonky and creating bottlenecks, or both.

Behind the scenes:

Without a make-down system, the incumbent flocculant could not be applied to the sludge on the way to the geotextile. The operator was faced with finding a new strategy or turning down work.

The solution:

SimpleFloc, CarboNet's pre-activated, no make-down chemistry was chosen as a way to break the logjam. SimpleFloc arrives ready-to-use in plug-and-play tanks that pump directly into the line without requiring any additional gear.

↳ This removed the equipment bottleneck that would otherwise have scuttled the project.

↳ SimpleFloc's NanoNet technology also reduced the requirement for PAM by 75%, adding margin to the project and reducing chemical use.

Results:

SimpleFloc not only allowed our customer to take on new business and scale throughput, but delivered additional benefits:

- Crews were more efficient as they didn't have to babysit make-down
- Merge and de-merge was nearly eliminated since no water was piped or transported to support PAM make-down
- Significantly less chemicals were introduced into the operating envelope, ensuring no permits were breached
- Crews enjoyed safer working conditions not having to deal with dry make-down dust or slips from emulsion slop

KPIs

- 75% reduction in PAM
- 58% reduction in Scope 3 CO_2
- 420k litres of water conserved in 20 days

CarboNet: As freshwater becomes increasingly scarce and regulated, companies from energy and mining to food and beauty turn to CarboNet to reduce, recycle, and renew the water they need to compete.