Stantec Con rms That Environmental Services Have a Key Role to Play in Hydrogen Projects

Stantec executives discuss the environmental impacts and water requirements of hydrogen production.

t Site speci c properties that may further impact cooling water demand

By Stantec's calculations, that is equiva lent to about 12 billion m3/year (3.2 tril lion gal/year) by 2050 which is a small per centage of the global overall water demand. e bigger concern is that the hydrogen production ecosystem (including hydrogen production as well as localized supply chain development) could be concentrated in speci c areas and the local supply of water could be disproportionately stressed if ap propriate evaluation is not conducted.

We are supporting clients to secure the water from traditional sources as well as non-traditional sources depending on the site location. Non-traditional water resources (such as municipal or industrial wastewater) may require additional puri cations steps for the water but could have greater water supply security. Water treat ment for hydrogen production is well un derstood and can be done with existing treatment technologies.

CCBJ: What other environmental im pacts could water sourcing create?

Snelling & Basu: If the water sourcing strategy is not done thoughtfully, it may lead to depletion of the water source, per haps even irreversibly, and the associated long term a ects. It could impact the opera tor's reputation as a good corporate citizen within the community in which it operates.