

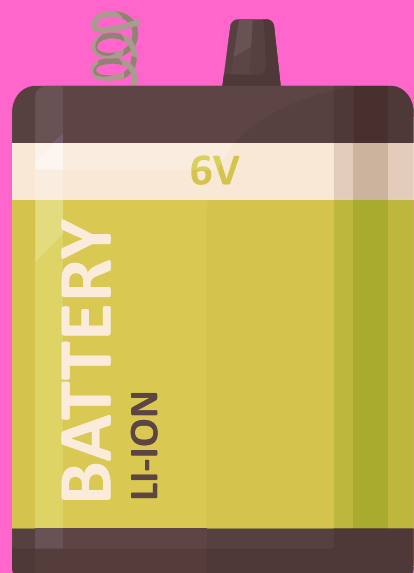
Benjamin Sparrow

is CEO & Co-Founder of Saltworks Technologies



(DON'T!)
**WASTE
WATER**

What do your phone, laptop, camera, drill, saw,
and Tesla Model 3 have in common?



Bingo, their
lithium-ion
battery!



Where does all that lithium
come from?

Primarily today from salars and salt lakes.

This might soon become a
bottleneck for some of the
fastest growing industries:

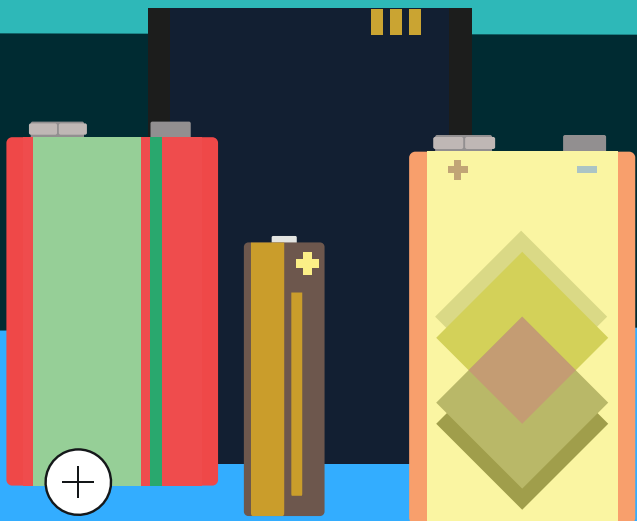
10 times more capital goes into battery
manufacturing plants than lithium extraction
itself. You can build all these battery plants
in the world that you want, but here's a big
concern: will there be enough lithium to supply
those battery packs?



If lithium’s demand keeps growing, we’ll have to look for additional sources. So, where shall we look?

The exact same technologies we use for manipulating ions and water to recycle challenging industrial wastewaters can be used to extract and refine lithium!

(DON'T!)
WASTE WATER



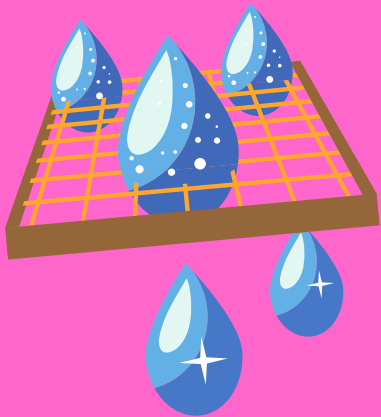
And indeed, there’s lithium to be found in various streams across the board, from desalination concentrates to Oil & Gas brines.

To extract it, you “just” have to build the right mousetrap.

This goes into two steps: direct lithium extraction (DLE) and CRC: Concentrate, Refine and Convert.



Saltworks’ core competence lies in the latter:



Concentrating
involves membranes then water boilers



Refining
leverages ion exchange resins



Converting
builds upon chemical treatments

We define ourselves as solution providers. Some of these solutions are proprietary and internal. Some are the best available off the shelf!



As Benjamin underlines, Saltworks started one decade early - actually with a very first purchase order that came from... NASA.

(DON'T!)
**WASTE
WATER**

Down the line, though, it probably was worth the early start:

We probably get half a dozen emails a day from somebody who suddenly discovered lithium in their wastewater

Another sign that we're finally entering the new realm of the circular economy!

We also covered:

- How Saltworks' adventure started in a garage - and how they may well be back in it for a stealth project
- How the company pivoted its original approach and what milestones they would have to reach before returning to it
- How their technology can be summarized as a way to split columns in the periodic table of the elements
- How much of a hot Wall Street's prospect Direct Lithium Extraction is right now (and what to think about it)
- How the church of England may well be the most influential and surprising impact investor out there
- Striving out of the box, water & its compounds being on the industrial's critical path, fostering the right team spirit, crossing the valley of death, caring and aiming for turbocharged solutions... and much more!

Don't miss a single bite: head over to dww.show

