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Is there a Carbon Problem with Lithium Production?

With Cris Moreno, Deputy CEO
of Vulcan Energy Resources

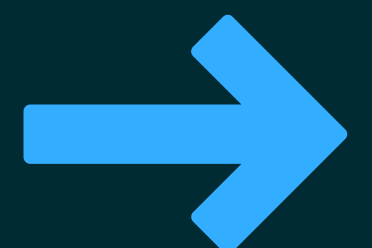
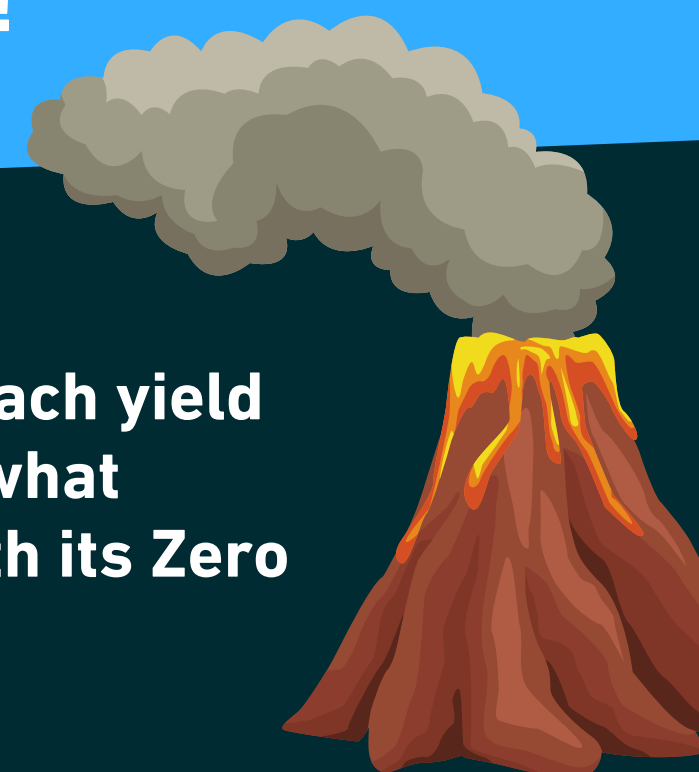




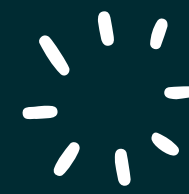
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If we want to decarbonize the current World's passenger fleet and electrify them, that would release over a billion tons of carbon into the air if we were to follow traditional hard rock or brine conversion!

But could another approach yield a better impact? That's what Vulcan aims to prove with its Zero Carbon Lithium concept.



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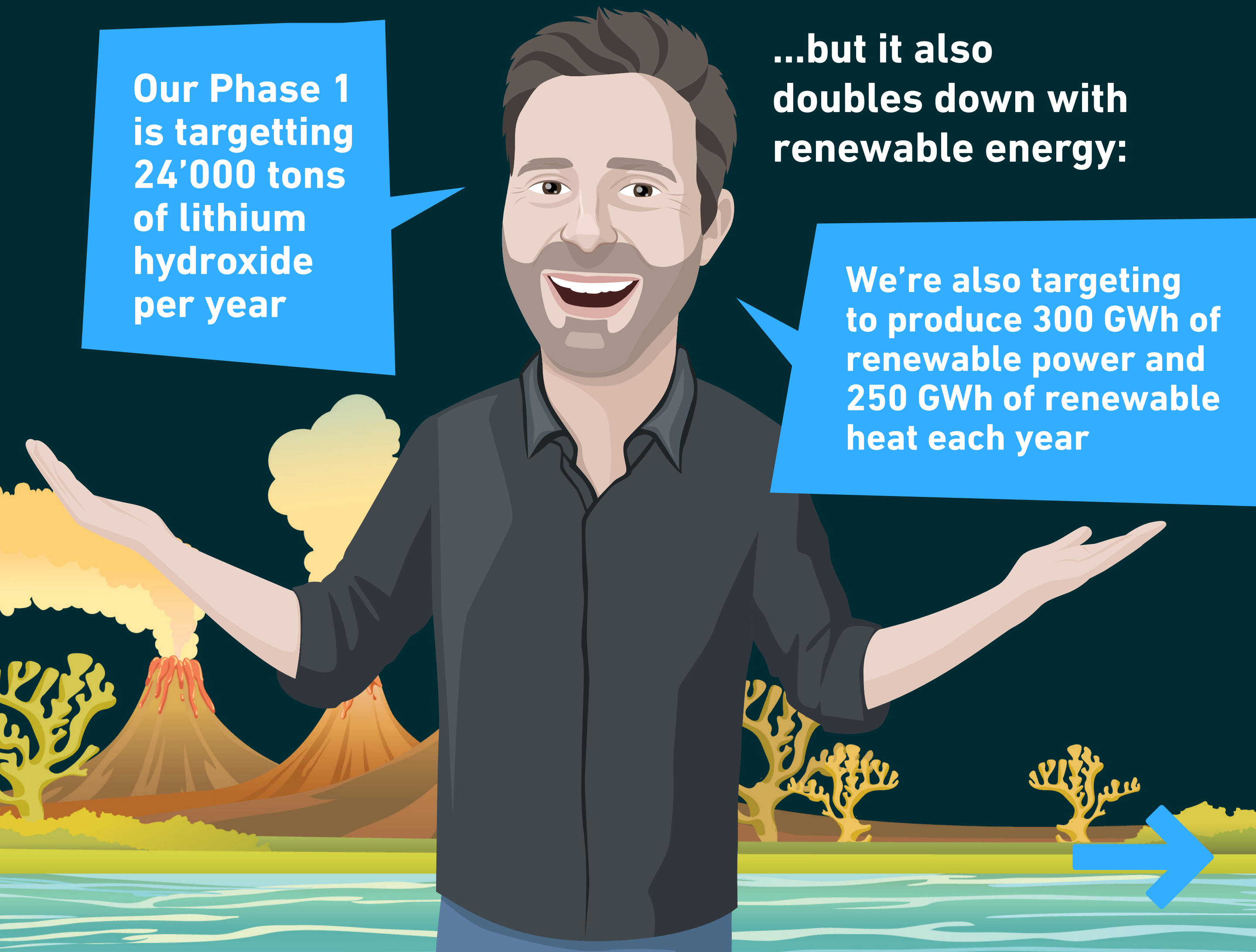


**Vulcan's project starts
with Lithium extraction...**

**Our Phase 1
is targetting
24'000 tons
of lithium
hydroxide
per year**

**...but it also
doubles down with
renewable energy:**

**We're also targetting
to produce 300 GWh of
renewable power and
250 GWh of renewable
heat each year**



Leveraging the Upper Rhine Valley's geothermal properties, Vulcan aims to produce its lithium...

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... with net zero greenhouse emissions and not using any fossil fuel in our process!

And this is thanks to an additional "trick"





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We're not using harsh chemicals, which also have their own issues. It's not just a cost but a carbon issue because making these chemicals, acids, and bases is not easy. We can desorb with fresh water instead and recover the lithium in this fresh water.

After all, that's another perk of the Upper Rhine Valley: it's rich in water.



This Zero Carbon Lithium approach has benefits beyond its environmental impact:

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We qualify under the EU taxonomy type rules, which means that we can hopefully access green funding, which is really important.



Why is that so important?
Well for a simple reason:

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We are the largest lithium resource in Europe by a significant margin. We're actually globally an important resource, and we could almost provide all of Europe's lithium needs if we had the capital to develop our projects.





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**An ambitious approach,
for sure! Too ambitious?**

**Some people see it as a
complex mining project. I
see it as a very easy oil and
gas project!**



**Wanna get more of Vulcan's secrets?
More details on the differentiated
approach they follow?**

**More insights, nuggets,
opportunities, and best practices?**

**Embark on a deep dive with Cris
Moreno, this week on the**

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Podcast!

