

Alma Energy Wins the Lyda Hill Prize in Technology Accelerating Development in Direct Lithium Extraction from Geothermal Brines



[Alma Energy](#) is the recipient of the inaugural [Hill Prize in Technology](#) awarded by the Texas Academy of Medicine, Engineering, Science and Technology (TAMEST).

We are proud and grateful to receive the prestigious and competitive Hill Prize in Technology, which accelerates our clean technology development in direct lithium extraction from geothermal brines, Dr. Hermann Lebit said during the award ceremony ahead of the [TAMEST](#) annual conference in Austin, Texas on February 5th 2024. The joined effort of Alma Energy and researchers at the [University of Texas at El Paso](#) (UTEP) has the potential of a breakthrough in clean technology with significant impact on the energy transition, particularly in the mobility sector, he continued.

The team builds upon synergies from the desalination and energy industry to bridge the gap between incumbent upstream technologies and clean tech developments.

OUR direct lithium extraction (DLE) technology is based on selective membranes in a clean, emission free, carbon negative process producing lithium carbonate/hydroxide along with green hydrogen, freshwater and CO₂ sequestration as by-products. The technology uses onsite energy and hydrothermal fluid, when combined with a geothermal power plants, but is deployable anywhere from economic waste water treatment in the hydrocarbon production to li-ion battery recycling in the emerging circular industry.

