

Who is Vida energy?

Vida Energy is one of Sweden's largest biofuel players and leads the Group's efforts in the bio-energy market. We take advantage of the by-products that result from felling and processing in the sawmills by converting these into renewable energy in the form of energy-efficient products such as whole tree chips, stemwood chips and pellets.

Why is molecular hydrogen important in Lake Vida?

The molecular hydrogen may be crucial as an energy source for life in the lake and aids in justifying the presence of life in an oxygen-deprived environment. Lake Vida has at least three named inflows: Victoria River, Kite Stream, and Dune Creek.

Does Lake Vida have life formations?

Lake Vida does not possess many factors attributed to the existence of life formations. Lake Vida contains high levels of nitrous oxide ( $N_2O$ ) and also molecular hydrogen ( $H_2$ ). The chemicals are believed to be released from chemical reactions between the brine and underlying sediments.

Where does Vida energy produce pellets?

Other production is sold to thermal power stations while sawmill chips are sold to the external pulp and paper industry. Vida Energy is also one of Sweden's largest suppliers of top-quality pellets. It has an annual production of approximately 65,000 tonnes, and Vida Energy supplies pellets to a large part of southern Sweden.

If life could survive in Lake Vida, as harsh and isolated as it is, could it also be found beneath the icy surface of Europa, or within the (hypothesized) subsurface oceans of ...

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 Lake Vida is a hypersaline lake in Victoria Valley, the northernmost of the large McMurdo Dry Valleys, on the continent of Antarctica. It is isolated under year-round ice cover, and is considerably more saline than seawater. It came to public attention in 2002 when microbes frozen in its ice cover for more than 2,800 years were successfully thawed and reanimated.

If life could survive in Lake Vida, as harsh and isolated as it is, could it also be found beneath the icy surface of Europa, or within the (hypothesized) subsurface oceans of Enceladus? And what...

Clues from Lake Vida's unusual brine chemistry - such as the presence of laughing gas and hydrogen - suggest the energy comes from chemical reactions between the brine and the underlying rocks.

Although Lake Vida has not been isolated for nearly as long as the subglacial lakes, the discovery of diverse

microbial life below its ice is significant in its own right, says Martin Siebert, a...

sustainability of life in Lake Vida: 1. Given time scales of exponential decay, the organic resources at -13.4 C would be degraded within 100s-few 1000 yrs. 2. The system is severely limited (resource, toxin, or temperature) and low metabolic rates are sustained by autochthonous resources. 3. There is an external supplemental energy

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