

SolarTech Power Solutions

Energy storage power supply large capacity phosphoric acid



Overview

Is phosphoric acid demand outstripping global capacity?

At a global level – regardless of whether China continues to dominate LFP cathode and iron phosphate production, or other regions become more self-sufficient – our long-term forecasts show overall demand for purified phosphoric acid far outstripping current global capacity in the long term, primarily due to this growth in the LFP sector.

Will the global purified phosphoric acid industry double in size?

Despite this uncertainty regarding the regional splits in LFP-related phosphate demand in the future, the global purified phosphoric acid industry will likely need to double in size over the next 20 years to cater to this growth in LFP usage.

Will global purified phosphoric acid capacity grow by 2045?

In our base case, LFP demand growth would require global purified phosphoric acid capacity to nearly double in size by 2045 relative to current levels (+95%), whilst our upside scenario requires capacity growth as high as 120%.

What is purified phosphoric acid (PPA)?

Purified Phosphoric Acid (PPA) has a wide ranging number of food and industrial applications. food or industrial production or which are almost all fully off-taken. There is little excess PPA left for LFP production. accommodate LFP battery demand.

Can phosphate rocks be used in LFP battery cathodes?

Large-scale refining facilities that can produce 30,000 tons of PPA require a capital investment of \$100 million, and meeting the demand as LFP battery production grows will require many such refining facilities to be built before 2030. Refining phosphate rocks into PPA must be done to an extremely high level for use in LFP battery cathodes.

Does LFP cathode & iron phosphate increase demand?

In Scenario 3, where we combine the localised production of LFP cathode and iron phosphate with an upside LFP demand forecast, the increment to purified acid demand in North America is +80%, whereas in Europe it is +130% - both representing game-changing market growth for both domestic suppliers and exporters to these markets.

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