KYNAR®

How to reduce CO_2 emissions of cathode manufacturing thanks to Kynar® HSV binders?

Battery cell metrics are commonly Wh/kg or Wh/L or Wh/€. It is becoming more and more common to take into consideration the carbon footprint of battery production. Arkema is committed to tackle the challenge of reducing CO_2 emissions linked to cathode manufacturing.

Kynar® CTO: launch in 2021 of a new sustainable Kynar® PVDF range: HSV900 and HSV1810 available as 100% renewable grades according to a mass balance approach of attributed carbon (ISCC+ certified) → **-20% CO2 impact/kg of binder produced**

Local supply from the region to the region: plants in USA, France, China
Less transportation when serving our customers → **≈ -5% of CO2 footprint**

Greener cathode manufacturing

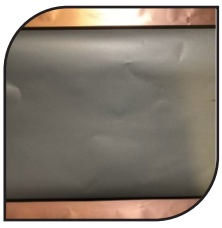
Aqueous Kynar® latex available for cathode manufacturing
with LFP, NMC, Mn-rich active materials ...
3beLiEVe European project: >1000 cycles reached with Kynar® latex binder for LNMO electrodes

3BELIEVE

Funded by the European Union

Kynar® fine powder available for dry process

NMC622 with 3% Kynar® PVDF



Graphite anode with 3% Kynar® PVDF

-20% CO2 emissions for cathode manufacturing without drying step

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