






GELLIFIED CELL CONCEPT

- 
High energy density.
 Excellent performance in high capacity and high voltage applications.
- 
Physical and mathematical models.
 Key methodology to optimise and accelerate the research and development process of new energy storage technologies.
- 
Sustainable.
 Optimisation of manufacturing processes, reducing capital and operating costs of future gigafactories, by avoiding the evaporation of solvents and the electrolyte filling step.
- 
Cheaper.
 Reduction of around 50% in energy consumption.
- 
Safer.
 Intrinsically safe cells, avoiding the presence of low-boiling point components in the electrodes and the separator.

NEXTCELL'S

overarching goal is to **provide a new Li-Ion cell** generation for both **high capacity and high voltage** applications by developing and validating a **ground-breaking gellified cell concept**, integrating several innovations at the material level for each of the main cell components: the gellification of the electrodes and the separator in combination with a high voltage-stable gel electrolyte will allow the development of the full gel cell concept.

PARTNERS



Funded by the EU. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the EU or the European Climate, Infrastructure and Environment Executive Agency (CINEA) Neither the EU nor CINEA can be held responsible for them.

 nextcell
  @nextcellproject
www.nextcell.eu