GREENLION is a Large Scale Collaborative Project within the FP7 leading to the manufacturing of greener and cheaper Li-Ion batteries for electric vehicle applications via the use of water soluble, fluorine-free, high thermally stable binders, which would eliminate the use of VOCs and reduce the cell assembly cost.

GREENLION has 6 key objectives:

development of **new** active and inactive **battery materials** viable for **water processing**

innovative processes leading to reduced **electrode production cost** and **environmental pollution**

development of new assembly procedures capable of substantially reduce the time and cost of cell fabrication

lighter battery modules with air cooling and easier disassembly through eco-designed bonding techniques

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development of **an automated module** and battery pack assembly line for increased **production output** and **reduced cost**

waste reduction, which, by making use of the water solubility of the binder, allows the extensive **recovery** of the active and inactive battery materials

GreenLion Project Coordination: IK4-CIDETEC

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ÖLion



From green materials to greener batteries

Advanced Manufacturing Processes for Low Cost GREENer Li-ION Batteries

FP7-2011-GC-ELECTROCHEMICAL-STORAGE Advanced eco-design and manufacturing processes for batteries and electrical components

Greenlion is part of European Green Cars Initiative

www.greenlionproject.eu



