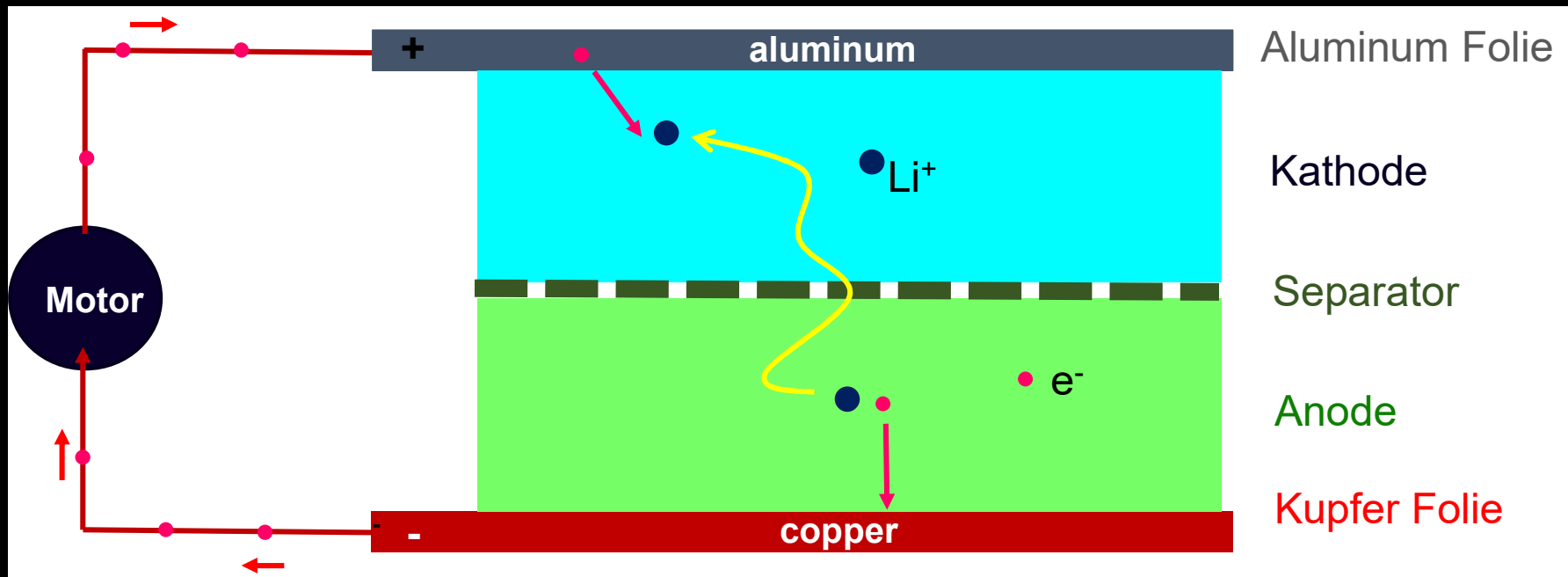


BATENE

electrifying anytime everywhere

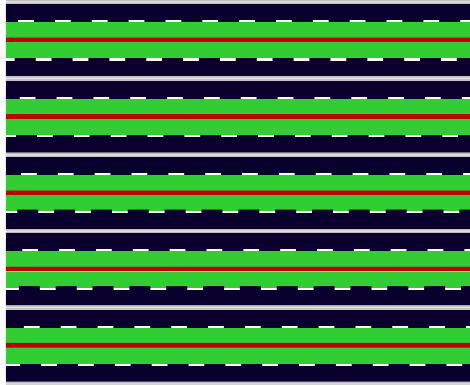
A seed-funded technology spin-off
from the Max Planck Society

Wendlingen am Neckar

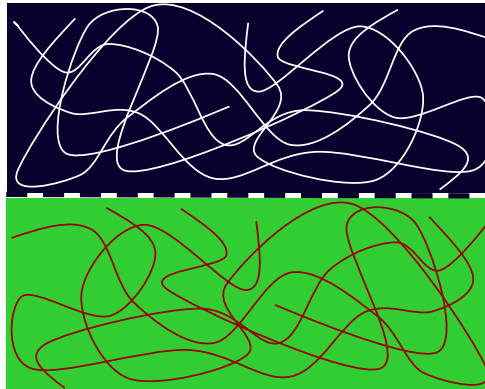


Technology

Batene fleece™ replaces metal foil current collectors with a fine metal fiber fleece
Thick electrodes, less complex cell construction

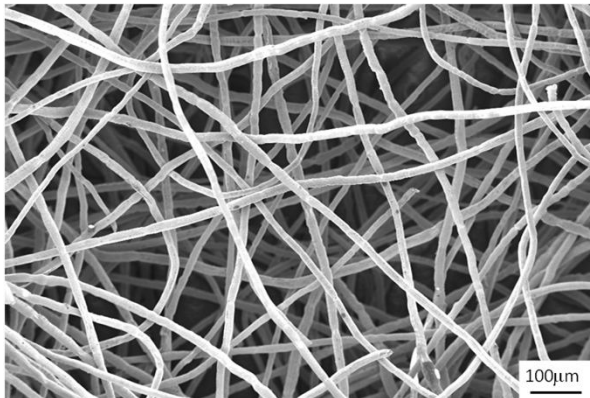


State of the art
Lithium-Ion battery cell



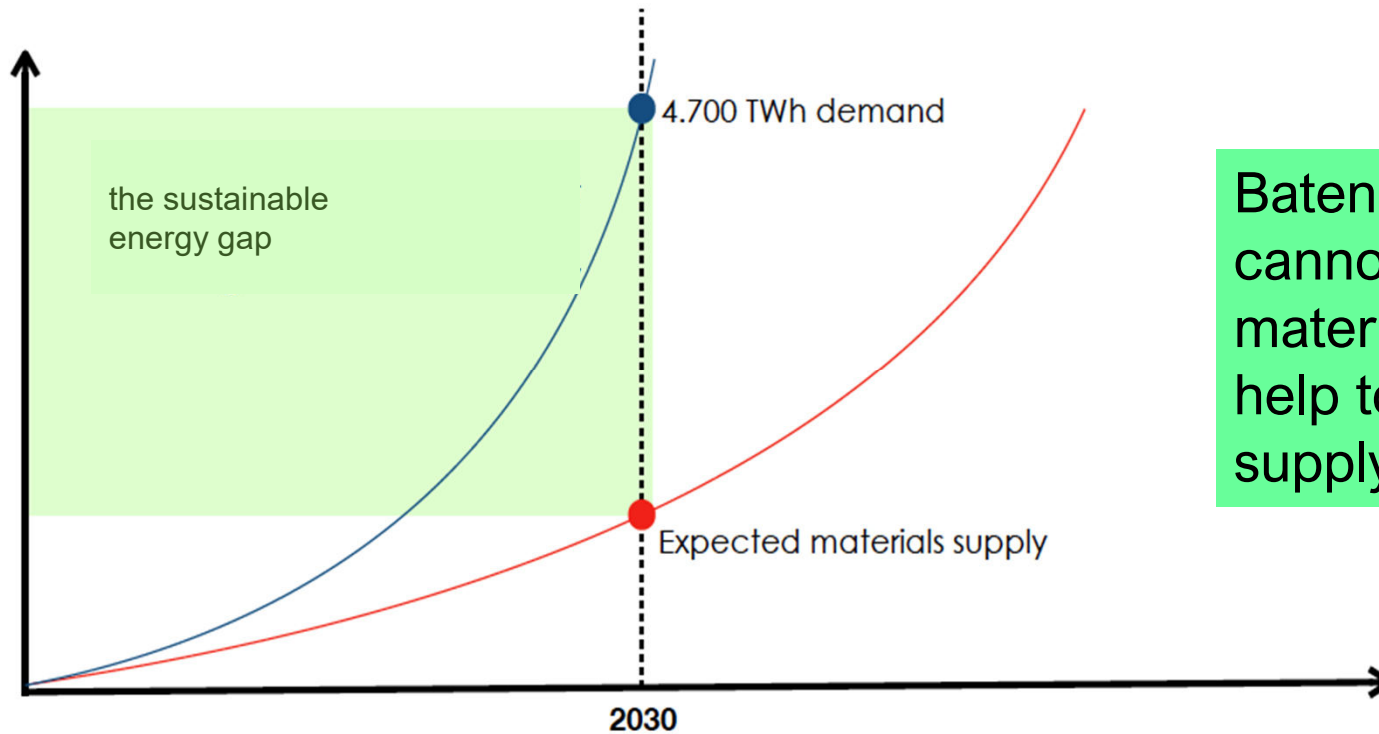
Batenefleece™
Lithium-Ion battery cell

- **Batene fleece™** behaves like an “Autobahn” for Lithium ions and electrons
- **Increasing the thickness of a cell by a factor of 10 - up to millimeters**
- **Less material, simpler production:**
significant cost saving of 35%





The need for batteries will grow by a factor of 10 by 2020: > 4,700 GWh
The expected materials supply serves only 30% thereof



Batene's fleece technology cannot only close the materials gap, it will also help to solve the regional supply dilemma

70% of lithium battery manufacturing capacity is located in China

Ein-Schritt Prozess zur Herstellung der Metall-Fasern
mit definierter Länge und einem Querschnitt wie ein Kashmir Haar

Vliese: Wet Laid

Anwendungen:

- Batterien
- Polymer Composite / Elektromagnetische Abschirmung
- Medical Products
- Katalyse
- Filter

Metalle: Cu, Al, Ni, Mg, Ca, Ti, verschiedene Legierungen,.....

