

Infrastructure of Fraunhofer FFB

Laboratories and construction phases



"FFB PreFab "

- **3,000 m²** Floor space (including clean room)
- **200 MWh/a** Production capacity
- **Q4/2025** Start of production

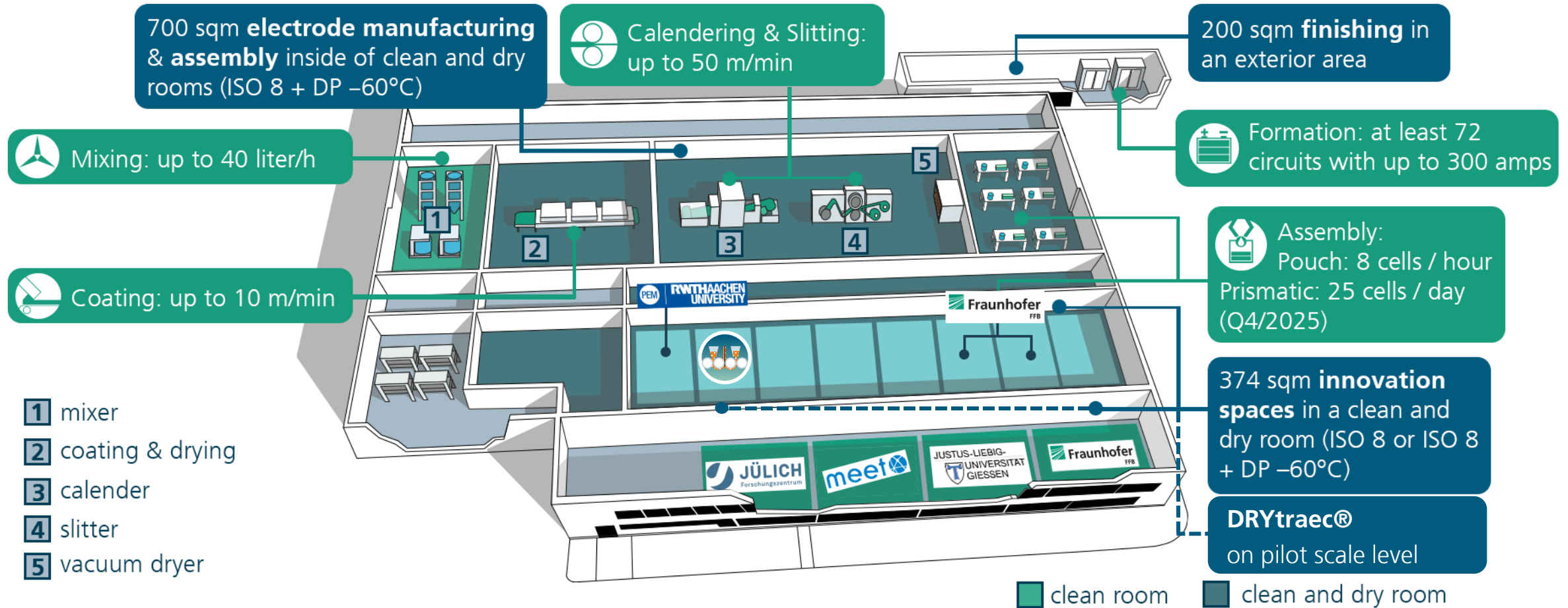
Fully **digitalized production** of **pouch and prismatic cells**, from raw materials to the **final cell**



Q4/2025 Start of production

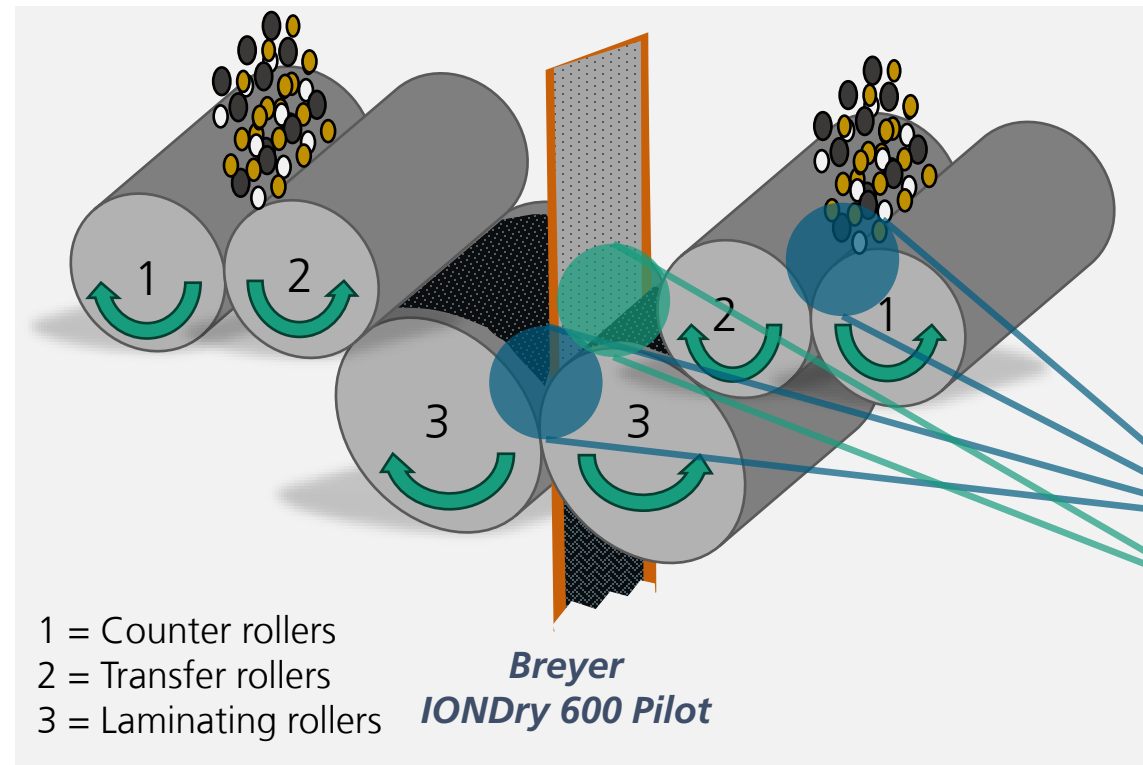
»FFB PreFab« of the Fraunhofer FFB

Plant concept



Innovative technologies - DRYtraec® @Fraunhofer FFB

Schedule 2024-26

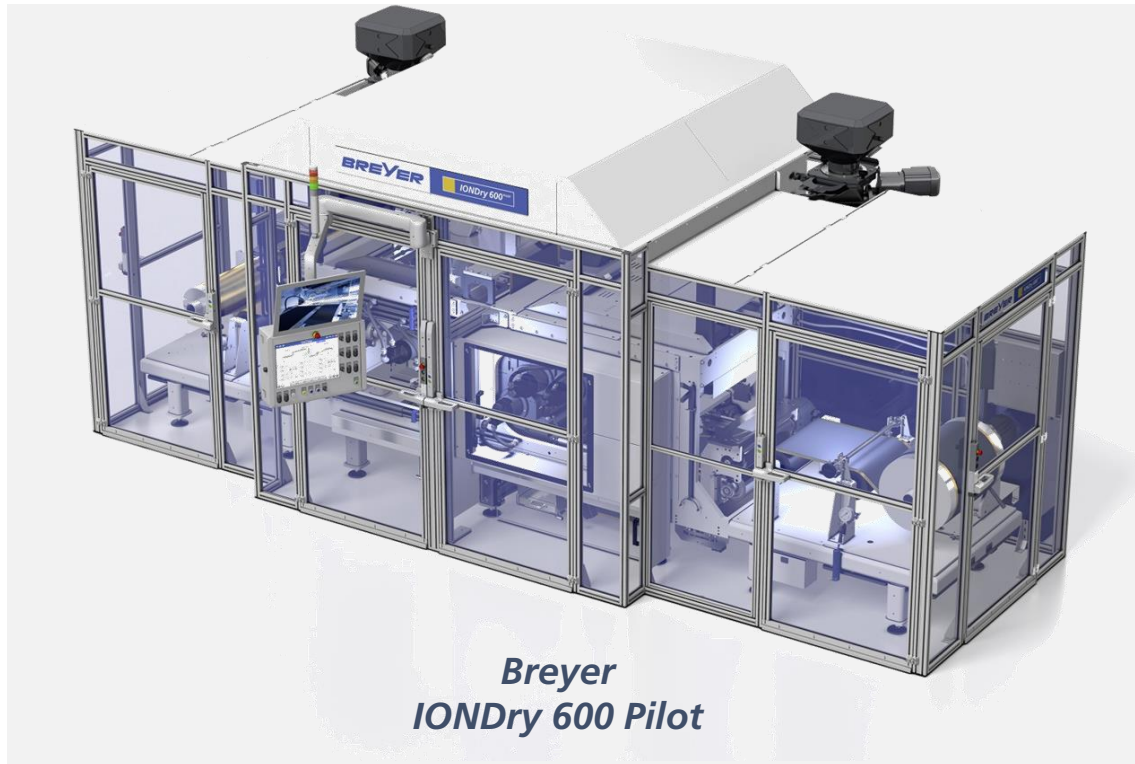


Key facts – Pilot scale calender

- 6 Roller calender
- Temperature control 150°C
- 400 mm coating width, 40 m/min max. speed
- Direct gap measurement (roller)
- Thickness gauge: Differentiation for A/B-side

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Schedule 2024/25



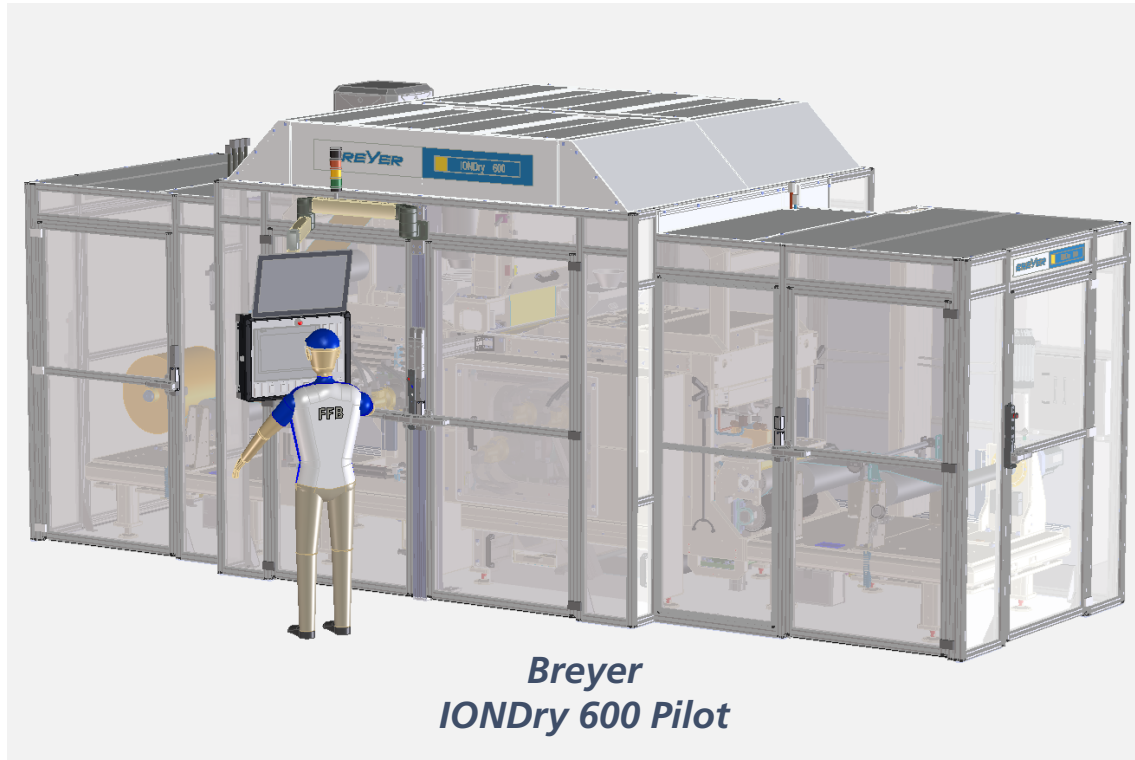
Key facts – Pilot scale calender

➤ Further specs

- **Dosing system** (Zeppelin)
- **Enclosure & exhaust system**
- **Dry room** (-60°C)

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Schedule 2024/25



Key facts – Pilot scale calender

➤ Further specs

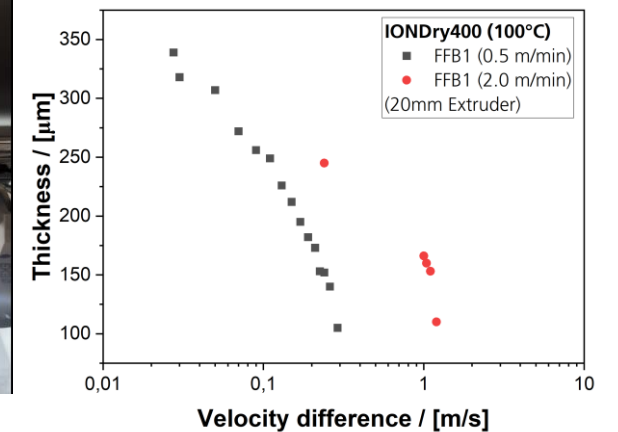
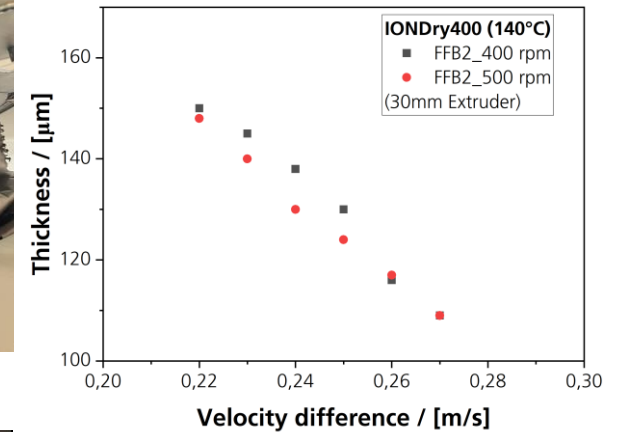
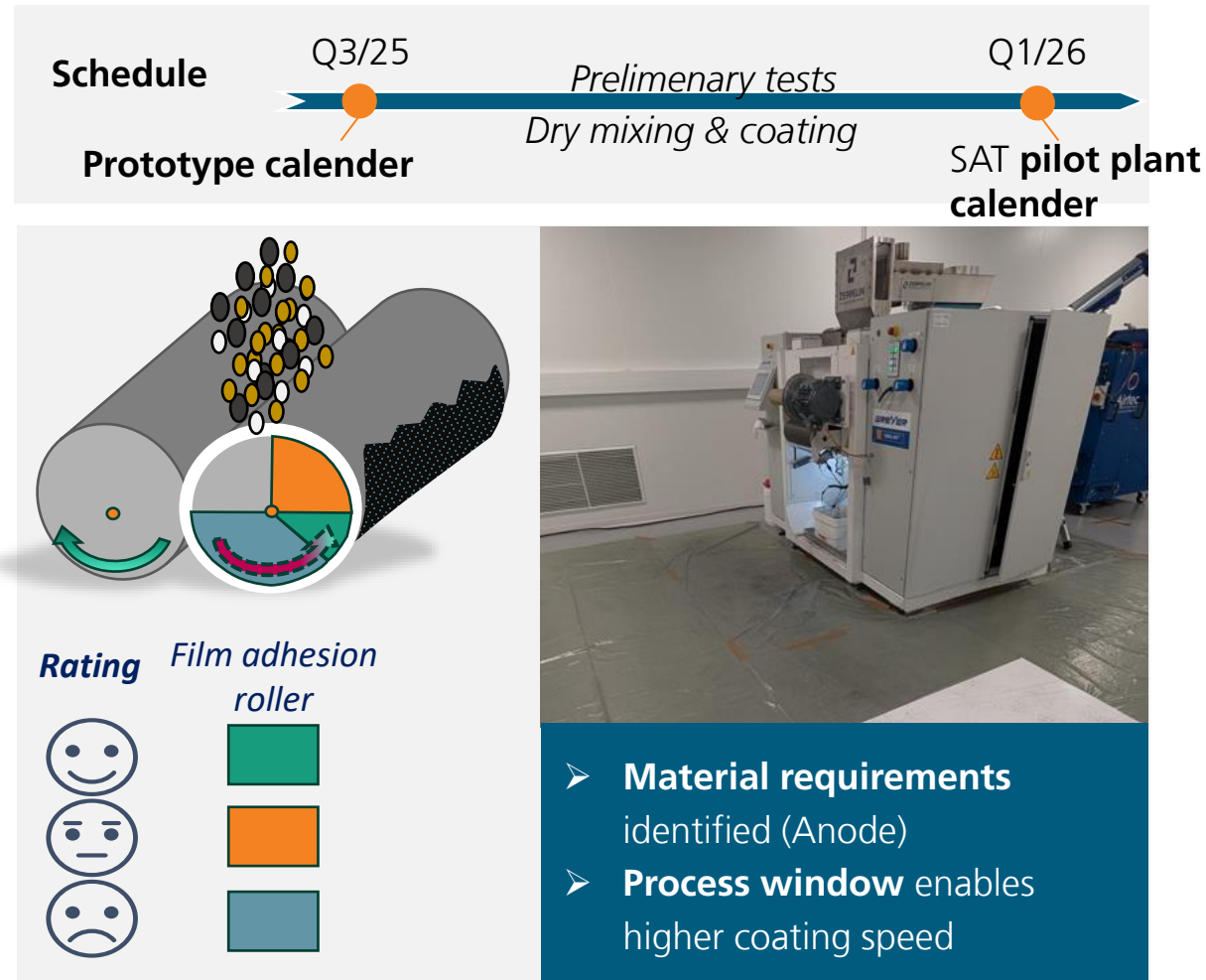
- **Dosing system** (Zeppelin)
- **Enclosure** & exhaust system
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➤ Future specs:

- **Direct gap** measurement on all rollers
- **Areal weight** of electrode
- **Roller & feeder adjustments** (if required) for cathode

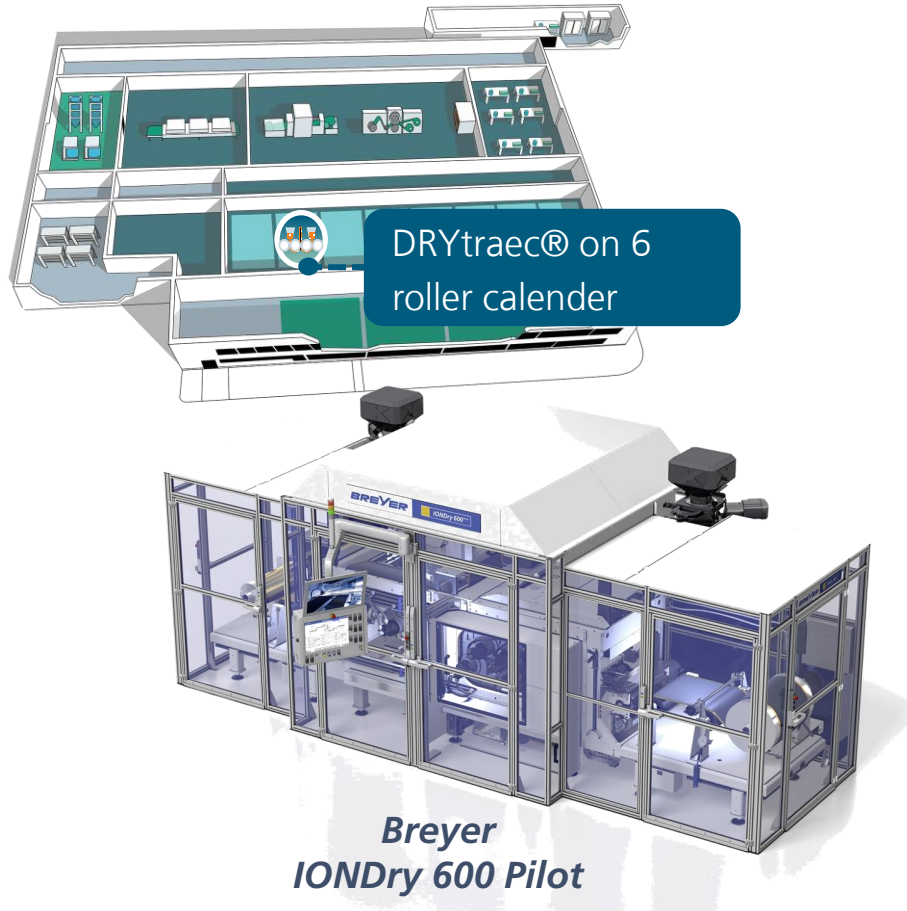
In the meantime

First results for dry film formation (Anode)



Outlook

2026 and beyond



2026-20xx



Broaden collaboration
Fraunhofer IWS & FFB



Project kickoff
for dry batteries

What we look for



Material evaluation
on pilot scale level



Battery performance
of dry electrodes



Techno economical
evaluation



Scrap & recycling



Sensors & analytics

Contact

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