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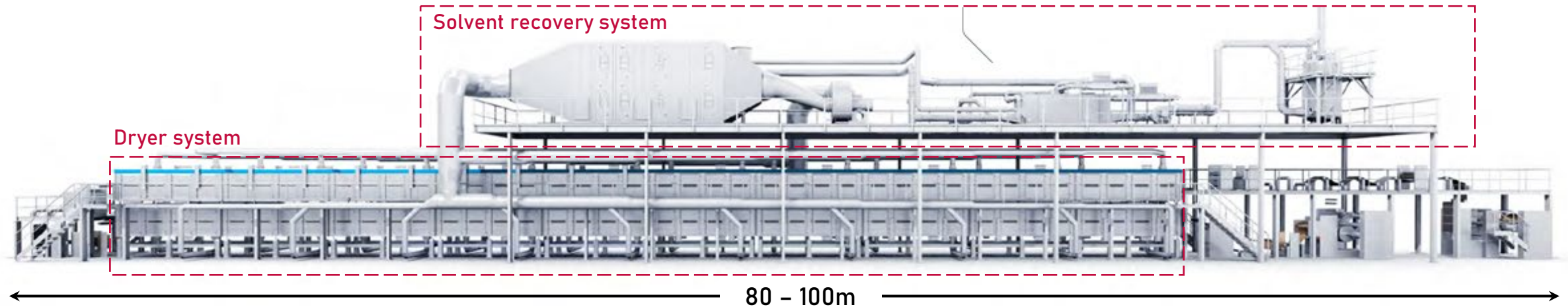
Solvent-Free Dry Battery  
Electrode (DBE) Manufacturing

Lie Shi - CEO  
February 20, 2024




# Conventional “Wet” Battery Electrode Process

## Industrial battery electrode coater\*

*State-of-the-art*

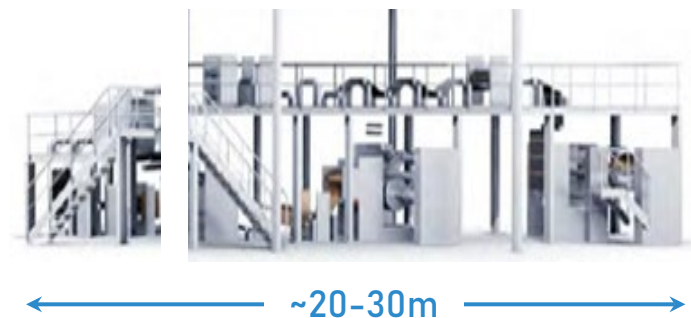


In a Li-ion battery factory, electrode coating uses:

-  45% of total plant energy consumption
-  30% of plant space
-  Toxic solvent (NMP)

## AM Batteries industrial dry battery electrode coater

*Example*



- ✓ No dryer system
- ✓ No solvent recovery system
- ✓ Smaller footprint

## Our Process



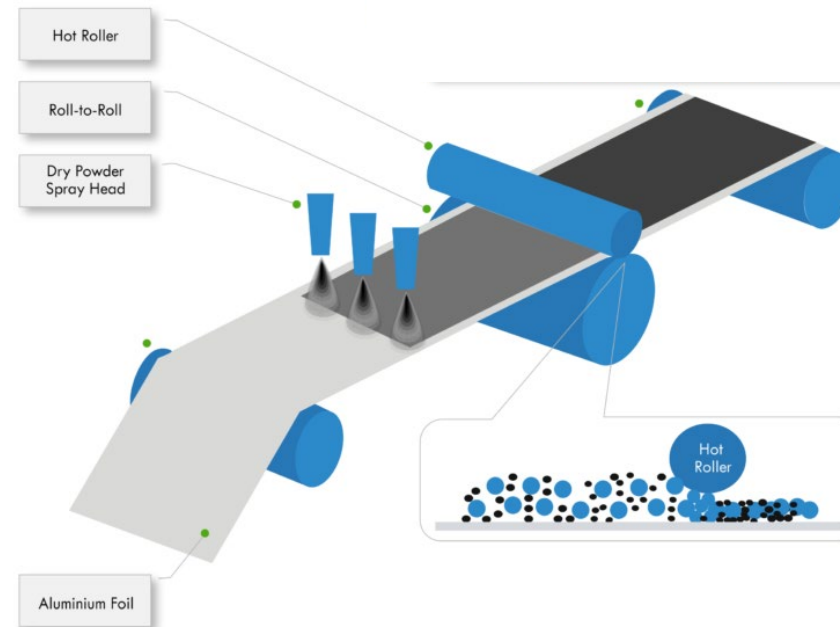
**Dry mixing**  
of cathode/anode active powder with polymer binder and conductive additive



**Application of mixed electrode powder**  
onto a substrate via an electrostatic deposition system



**Mechanical compression and binding**  
of particles to the substrate via a hot calendering system



Mixing

Coating

X Oven Drying

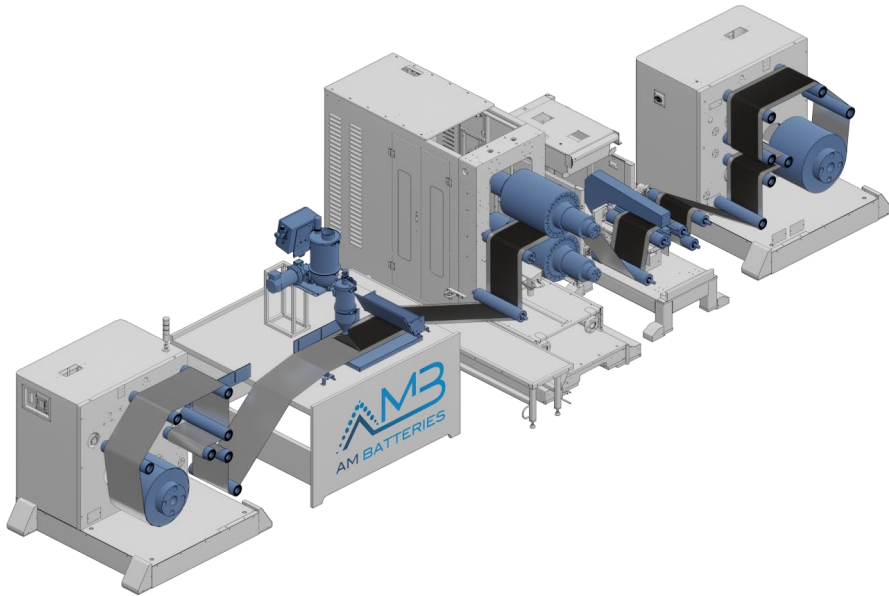
X Solvent Recovery

Calendering

X Vacuum Drying

AMB's Dry Battery Electrode (DBE) process is chemistry and electrode agnostic

# AM Batteries Provides Turn-Key Equipment



## AMB's Dry Battery Electrode (DBE) process



- >30% savings (Energy, Capex, Opex, & Space)
- Reduction of CO<sub>2</sub> emission
- Solvent-free (easier permit application)

## Supported by trusting investors and strategic partners, AMB



- Is building a world-class engineering team
- Is developing a new ecosystem
- Is open to all players for strategic and commercial discussion



RACAPITAL



DORAL

ZEON





Revolutionizing Battery Electrode Manufacturing