Water in Salt

Membrane-Free Flow Battery
for Grid-Scale Energy Storage

Energy Storage: Safe, Efficient, Affordable

Zinc-Manganese Flow Battery — 70% lower cost than Li-ion, zero fire risk, 100% recyclable

$506B	70%	25+	4×
Annual Loss from Inefficient Storage	Lower Cost vs Li-ion	Years System Life	Lower 30-Year TCO

□ TECHNOLOGY

- **Membrane-free** — 40% lower production cost
- **Non-flammable** — No thermal runaway risk
- **Abundant materials** — Zinc, manganese, carbon
- **All-climate** — No cooling systems needed
- **100% recyclable** — Circular economy ready

□ MVP PERFORMANCE

- **96%** Coulombic efficiency
- **67%** Energy efficiency → 79% target
- **20 Wh/l** Capacity → 80 Wh/l target
- **500** Verified cycles → 25,000 target
- **2V** Cell voltage (Zn/Mn)

□ MARKET & COMPETITION

	WiS	Li-ion	Vanadium
Cost/kWh	**$80-120**	$120-180	$200-350
Cycles	**20-25k**	6-10k	20k+
30yr TCO	**$650**	$2,300	~$1,000
Safety	□	⚠	□

$70B
Global Market 2031

$25B
Europe 2030

$4B
SOM (RES Integration)

□ BUSINESS MODEL

- **Product:** 1 MW / 4 MWh storage systems
- **Price:** ~$520,000 ($130/kWh)
- **Margin:** ~30% operating profit
- **2034 Target:** $130M revenue, 250 units

□ ROADMAP

- **Stage I:** 100W Module (TRL 4-5) — □ Done
- **Stage II:** 10kW Demo (TRL 5-7) — **Pre-Seed**
- **Stage III:** 100kW Pilot (TRL 6-8) — Seed
- **Stage IV:** 1MW System (TRL 8-9) — Series A

□ TEAM

Paweł Bartlewski
CEO & Founder (85%)

Piotr Przybył
COO & Co-Founder (15%)

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Pre-Seed: €2M for Stage I-II R&D & 10kW demo (18 months)

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