



REVOLT
TECHNOLOGY

Rechargeable Zn-air Batteries for the Mobile Generation

European Energy Venture Fair
12th September, 2006
Rüschlikon, Switzerland

Ram Malhotra CEO
ReVolt Technology
Staeфа, Switzerland

ReVolt Technology - a Glance

- 6 years R&D on rechargeable zinc-air battery at SINTEF in Norway
- Established as a spin-off from SINTEF, to commercialise the zinc-air battery technology
- Seed funding: € 1.5 million
 - Viking Venture
 - SINTEF
 - The management
- 1st round funding (June 2005): € 7.0 million
 - Northzone
 - Sofinnova Partners
 - TVM
 - Viking Venture
- 15 employees, of which 13 are technical (August 2006)
- Located in Zurich October 1st, 2006; establish pilot line



The core team



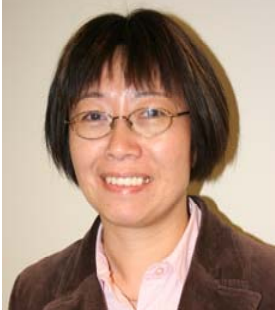
Ram Malhotra, CEO

Former COO and VP business development of Mikron AG, Asia
Director of Amphenol Inc.
16 years with Dow Chemical
On the board of Balda-Mikron JV in China
Director of TFPPI, Malaysia



Dr. Trygve Burchardt, Founder and CTO

PhD from the University of Oslo
10 years R&D in Fuel cells and batteries



Dr. Ningling Rao, Director of Engineering

PhD from Delft University of Technology, The Netherlands
10 years development and production of lithium ion batteries at Danionics



Dr. Wolfgang Weydanz, Director of System Development

PhD from ZSW in Ulm, Germany
14 years in battery technologies including 6 years at Sanyo Europe

We are living in a mobile world.....

Host Systems Era

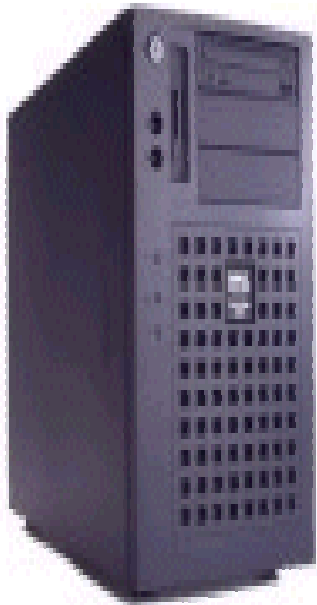
PC Era

Mobile Appliance Era

1960s-1970s

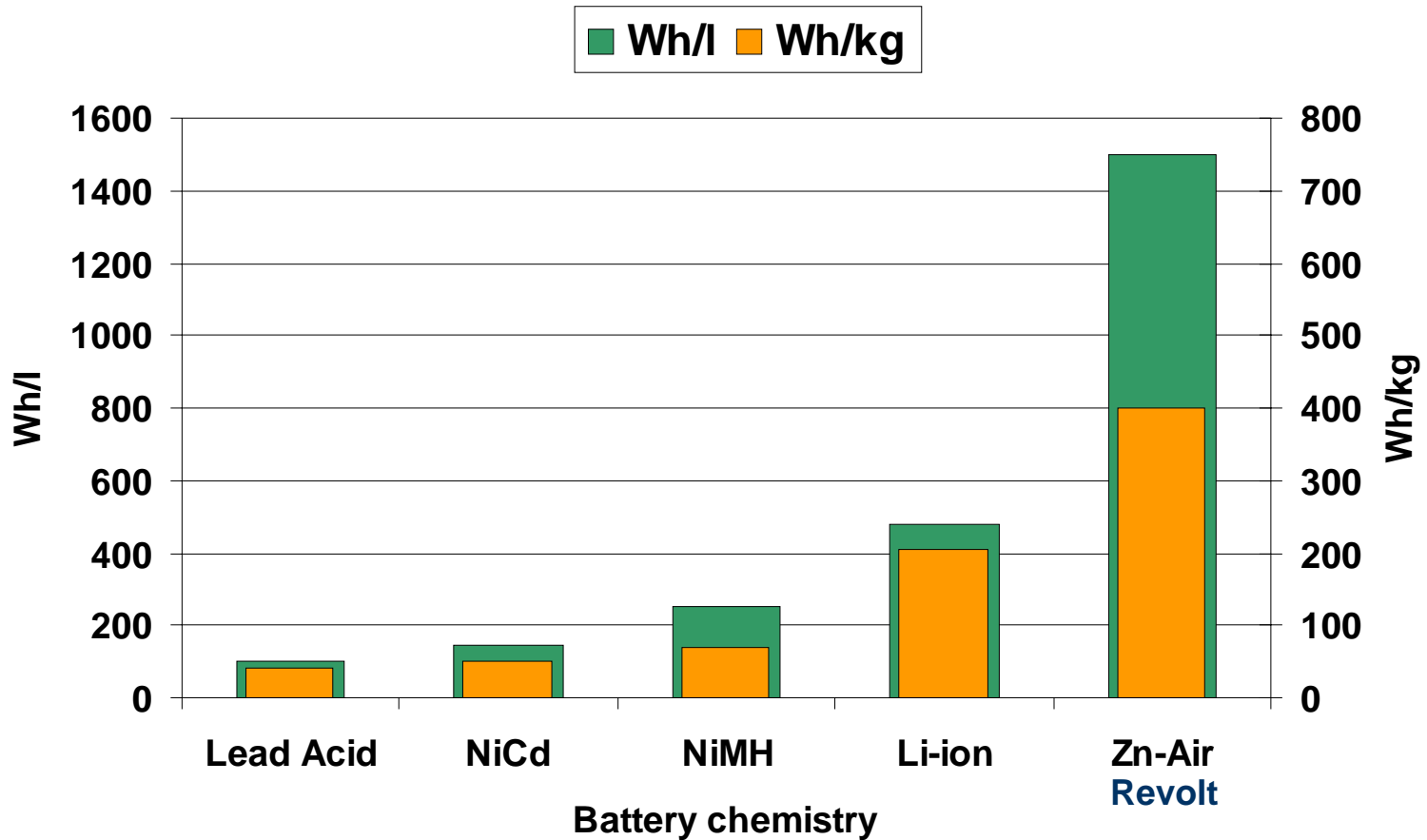
1980s-1990s

2000-2010

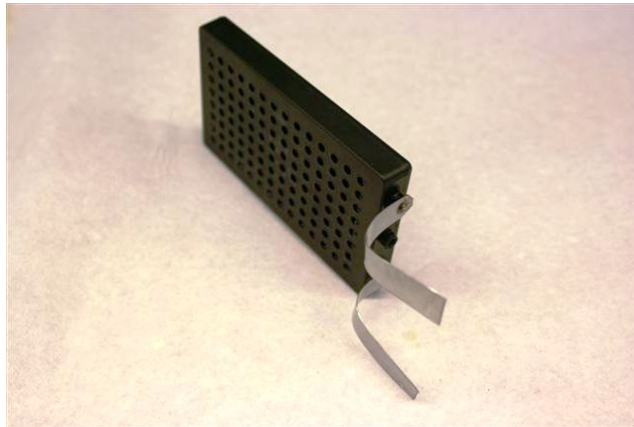


Revolt Zn-air offers more than two times energy as Li-Ion

Energy density benchmarking



Mobility runs on batteries



Zinc air is the answer

- 😊 Energy density >2X
- 😊 Low cost raw materials
- 😊 Mass manufacturing
- 😊 Very safe
- 😊 Environmentally friendly



Zinc air technology is well known

... but not rechargeable – Why?

- ☞ Zinc dendrite formation
- ☞ Battery drying out
- ☞ Oxygen formation/reduction reversibility issue

Revolutionary breakthrough by ReVolt Technology

- ✓ Microscopic localization of zinc
- ✓ Humidity management
- ✓ Bi-functional air electrode

The opportunity

Consumer electronics

- Mobile phones, notebooks, PDAs, digital cameras, camcorders



• USD 4.8 billion in 2008

Specialty markets

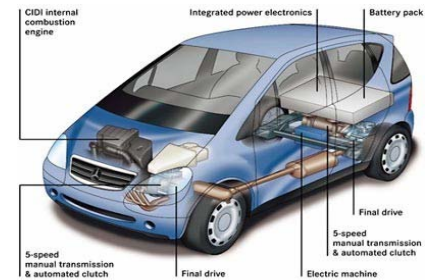
- Military electronics, industrial electronics, medical products, Power tools



• USD 1.0 billion in 2008

Electric vehicles

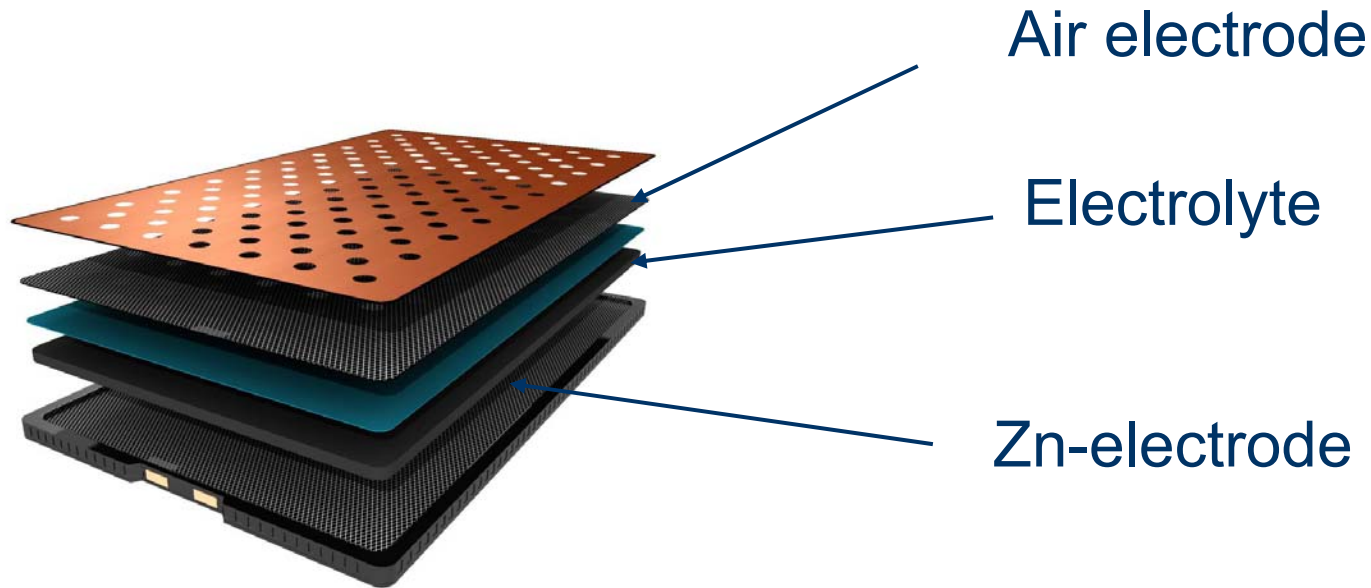
- Hybrid cars, electrical cars, fork lifts, golf carts, marine engines



• USD 2.8 billion in 2008

Our focus: Consumer electronics

Strong IP Protection



Full ownership of world wide patents for:

- Components
- Manufacturing technology
- Applications

Key Milestones

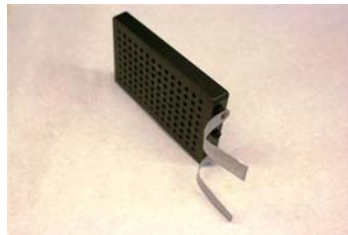
✓ Dec 2005

Verification Of Concept by 3rd party



✓ July 2006

First pilot prototypes in test



➤ In progress

System approval

'Go to market' strategy

- **Market Approach**

1. Key component supply + License IP
2. Limited battery manufacturing capability
3. Need additional funding in 6-12 months

ReVolt powers the future

Thank you for your attention