
TH!NK City

**Portland General Electric
March 11, 2010**

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THINK

Our Mission -

“To design, develop and produce simple and engaging electric vehicles – that will change the world, one car at a time.”



THINK

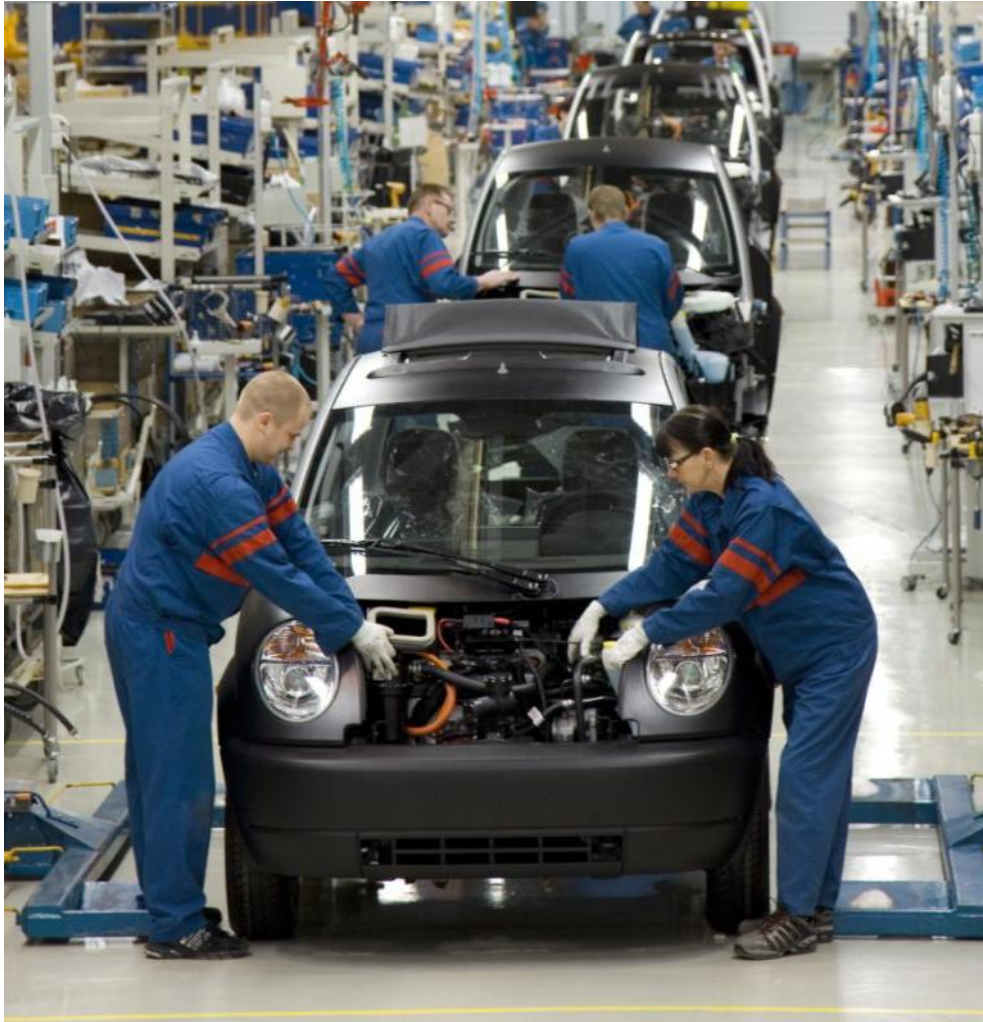
History

- **Founded 19 years ago in Norway**
- **The first prototype predecessor to today's modern THINK City was developed in 1991**
- **The first generation THINK City was produced from 1999-2003**
- **Ford Motor Company owned and invested heavily in THINK between 1999-2003**
- **In 2006 Norwegian investors bought THINK and have invested over \$120 million to further develop the latest generation THINK City**
- **Production moved to THINK's strategic partner and shareholder, Valmet Automotive of Finland, in Decemb 2009.**



What is THINK?

The world's most experienced EV developer



- One of the few companies with a highway-capable, battery electric vehicle currently in production – THINK City.
- Currently in production in Finland. 1,500 vehicles on the road in Norway, Denmark, Sweden, Switzerland, Spain, Austria, the Netherlands.
- More than 2,000 orders in Europe are awaiting delivery!
- 30 MILLION miles of real world EV experience.

THINK

EV Benefits

Cleaner

- Lower CO₂ footprint; can be zero with renewable fuel source
- 3-5 x more efficient, regardless of electricity source
- Important enabler for energy security
- Zero emission – important for cities

Low Cost of Ownership

- No visits to the dealership! (oil changes, etc. – first maintenance at 50,000 km)
- As low as 2 cents per mile operating cost
- Far fewer wearing parts than gasoline car

Fun-to-drive

- Instant torque
- Unparalleled driveability in all conditions
- Ability to adapt to driver preferences

Connected

- Enables new benefits and features (pre-heat, pre-cool)
- Charge me now, charge me later, charge me free
- Earn money from Li-ion battery during use and 2nd life



Who is our Customer?

Emotional

Are willing to pay more for environmentally friendly vehicle/ Look for “green” image credit

Are comfortable with the functional values of vehicles

Want to make a conscious effort to help reduce vehicle pollution.

Mileage conscious and they are more pessimistic on fuel prices.

Usually own more than 1 car



Rational

Fuel economy more important driver than environmental friendliness

Good fuel economy means high levels of satisfaction with environmental friendliness

Needs an uncompromised solution

Shops primarily fuel economy and value for money; reliability and price/monthly payment

← Green?

Or

Lean? →

THINK City

Big Idea – Small car



THINKcity

Who are our fleet targets?



Utilities

Corporate

Government

Higher Ed.

Commercial

Airports

THINK CITY

FLEET PROFILE

Charging mainly at work

Drive 30 - 60 miles per day

Average 12,000 miles / year

Use car mainly for inner city business travel/commuting, deliveries, service calls and car sharing fleets

“Return to base” usage pattern reduces infrastructure requirements in early stages

A fun, safe and urban electric vehicle

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- 100% electric
- Zero emissions
- Honored with several design awards
- Easy to park and spacious
- Charge anywhere over night, ready to go in the morning
- Delivering cars to Oregon-based fleets in 4th Qtr. 2010



TH!NKcity

TechSpecs

Top Speed: 70+ mph (US spec)
Range: 100+ miles*

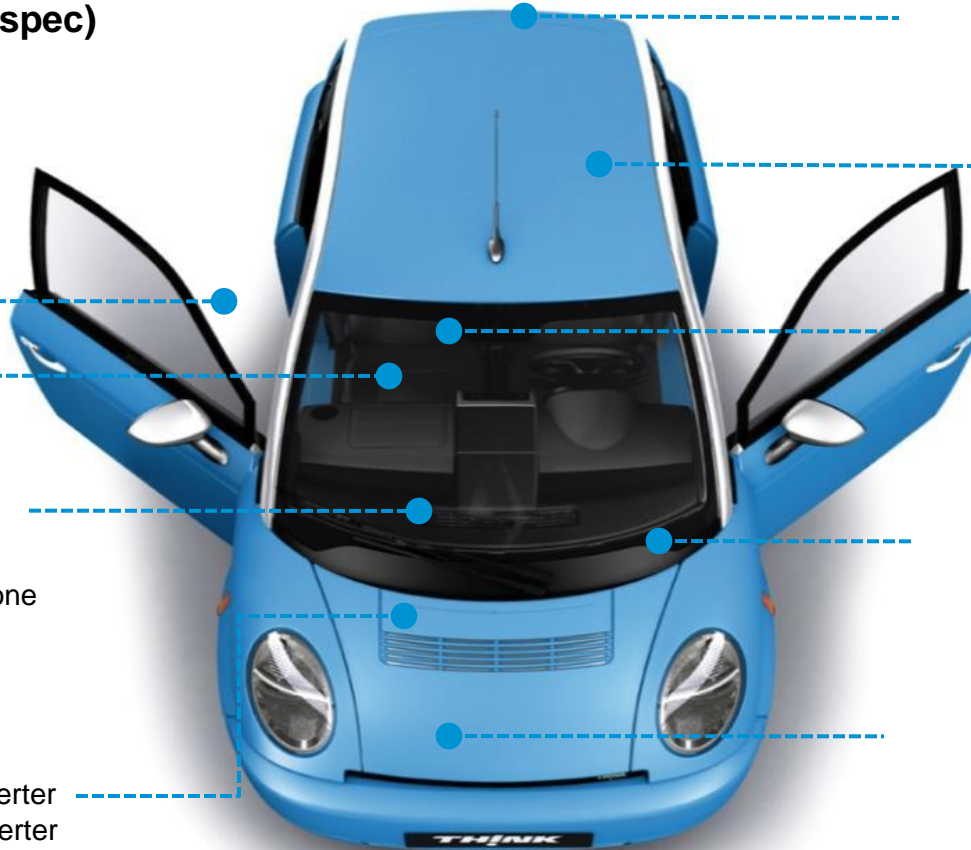
Interior: 100% recyclable polypropylene

Battery weight 572 lbs.

Mindbox (optional)

- 2-way communication system
- Connected to Think service phone
- State of charge
- GPS

AC/DC converter
DC/DC converter
Charger



Spacious luggage compartment with 29 cu. ft. volume

Exterior: Unpainted, recyclable plastic

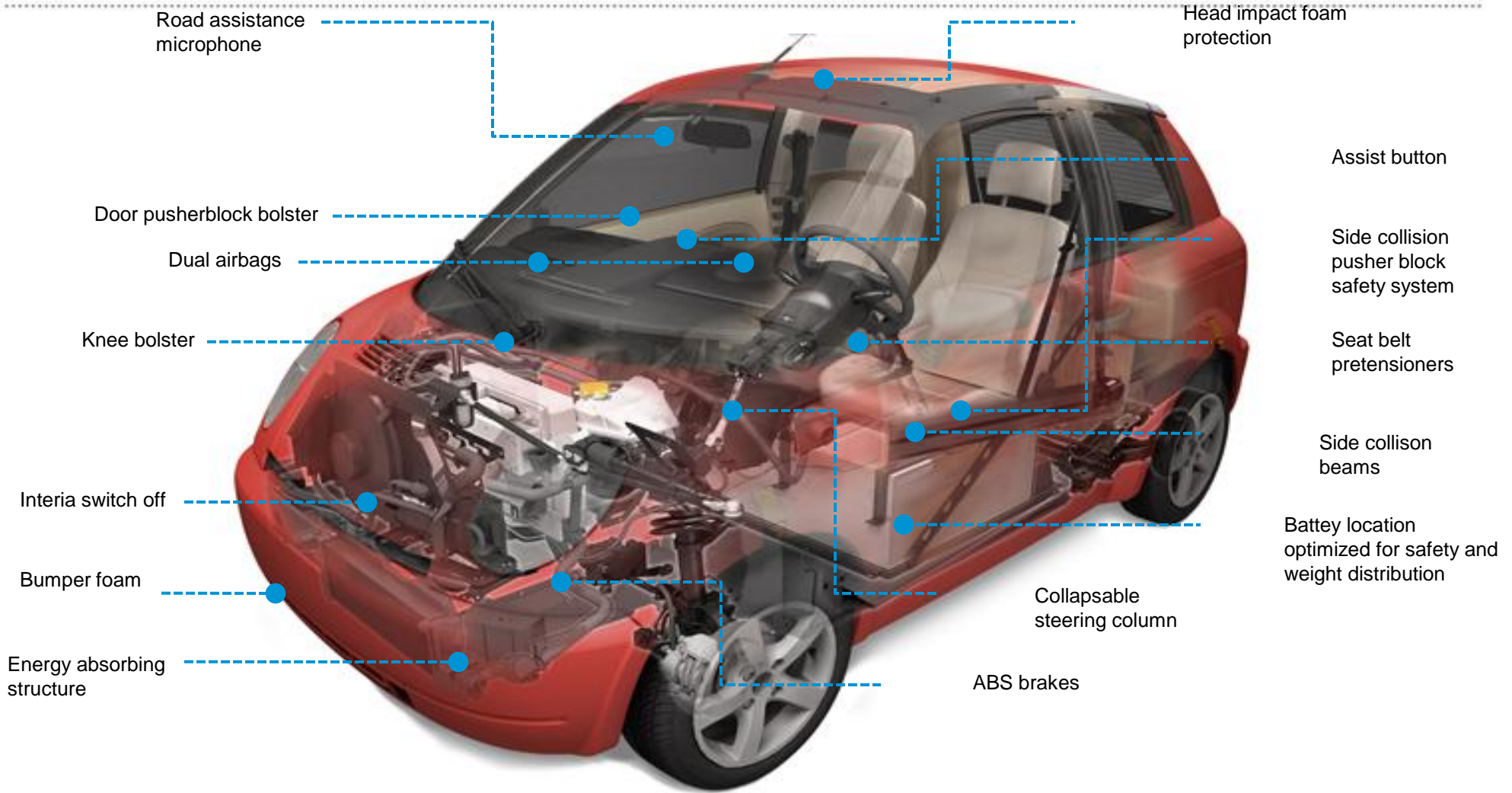
Microphone to roadside assistance

Charging 10-16 Amp
0-80%: 9,5 hours, 230 VAC/14A
0-100%: 13 hours, 230 VAC/14A
Optional fast charger - Level 3 in 2010

Motor and gear:
• 3 phase asynchronous electric motor
• 1:10 gearbox
• Differential gear

* Based on Federal Urban Driving Schedule (FUDS).

Safety



Safety

- The first electric vehicle ever to be awarded a pan-European homologation certificate
- THINK City has been put through extensive testing and validation:
 - OEM Durability Testing
 - Hundreds of computer simulations and correlations
 - 50 sled tests
 - 20 + full vehicle crash tests
 - Deep water wading
 - Total submergence in salt water with all electrical systems activated



Lower Frame



Upper Frame



Door Frames



Side impact beam

Energy and Drive system



Features

Mindbox – EV Telematics System (optional):

- Integral part of THINK EV drive system
- Real-time battery performance monitoring
- “Always connected to your car”
- Pre-heat, pre-cool, smart charging



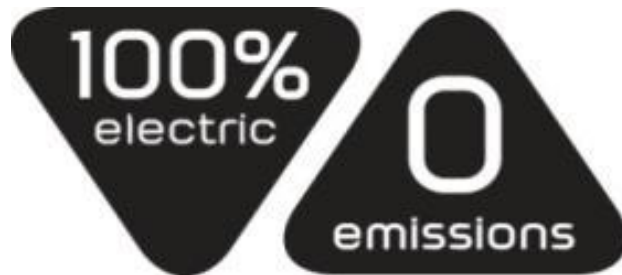
EnerDel Prismatic Lithium-ion system

- Operates at ambient temperatures
- The car does not have to be plugged in when not in use
- Able to support higher power requirements



Designed with Sustainability In Mind

- THINK City is 95 % recyclable
- Body panels are made of unpainted plastics
- The instrument panel can be completely recycled
- The fabric, body, supports, air ducts, adhesives and fixings are designed using recyclable materials
- Batteries can be returned to the supplier at the end of life





Changing the world – one car at a time TM

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