better place

Accelerating Mass Adoption: Pricing Models

Amit Yudan / Europe Business Development / e-mobility NSR /October 2011

"How do you make the world a better place by 2020?"

End dependence on oil...

Accelerate the transformation to a sustainable electric automotive solution





Membership benefits

charge spots

- Personal charge spots installed for members
- Unlimited access to charge spots installed in public
- Standards compliant
- Networked and intelligent
- User-friendly design



Membership benefits

batteries & battery switch

Unlimited access to batteries (no fee per switch) Instant range extension for long-distance trips Optimal thermal management to prolong battery life

Membership benefits

driver support system

Energy management (accessible via in-car unit, web, mobile)

Intelligent, always-online navigation & route planning State-of-the-art multimedia display

AUTO

Kurs

Len

School

lome



Intelligent Network Management

Smart Chraging

0750

Cele, DEM

Interfaces to utilities / energy providers

Optimisation between user needs and network capacity

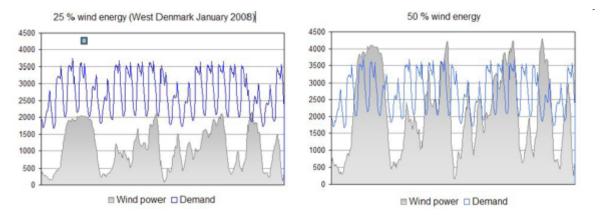
Demandside management, renewable energy and distributed storage

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Battery Switch Station Network as Distributed Storage





*Illustration only of a BSS network

Renewable Energy raise new challenges for the electric grid

BSS network can serve for two purposes:

- Extend range of Vehicles
- Distributed Storage at marginal costs

How does it work for the driver?

Buy car (battery not included). Choose one of various fixedprice membership packages based on miles:

Battery with guaranteed service level, unlimited network access (charging and switch), in-car driver support system, 24x7 customer service, roadside assistance.



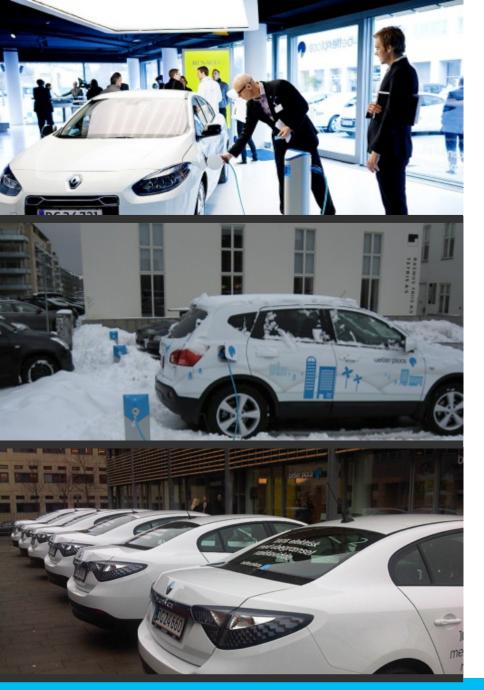
Israel: first market

- Solution working for 2011 commercial launch
 - Operating network of 1,000 charge points and several battery switch stations – total of 40 switch stations planned for launch
 - Operations Center and 24/7 Call Center online
- Experience Center hosted 75,000+ in 18 months and nearly 20,000 signed interest list — 10% of cars sold annually
 - Drivers save up to 20% vs. petrol
- 300+ companies, including Cisco, FedEx, Intel, IBM, Microsoft, have signed to convert their employee fleets to Better Place
 - These companies represent 80,000+ cars

Israel: Network charging infrastructure nationwide



- Partnerships with the 3 major gas station operators to deploy Battery Switch Stations
- 400 agreements with parking lot owners to deploy Charge Spots
- 27 agreements with municipalities to deploy Charge Spots in central locations



Denmark: first European market



- Commercial launch just after Israel
- Experience Center opened in March
 - 4,000+ have visited
 - 90% express interest in buying an electric car
- Hundreds of visitors have pre-ordered switchable Renault Fluence Z.E. and membership packages based on km to save up to 20% vs. petrol
 - Using Better Place Center and Renault dealer channel

Denmark: renewable energy as transportation fuel

- Electric cars powered by excess wind generation at night enabling Denmark to scale from 20% to 40% wind
- Battery switch stations increase ability to provide energy storage for renewables and manage demand

Europe's first Switch Station in Gladsaxe, outside Copenhagen – unveiled by Danish Minister of the Environment (top right)





Marh 2011: Better Place Center Opened in DK

Center Opened in Copenhagen

Visitors experience sustainable mobility and can order a Renault Fluence Z.E.

Better Place Denmark announces Subscription fees, with attractive pricing



priser til den private elbilist

| | Image: wide wide wide wide wide wide wide wide | | | | |
|---|---|---|---|---|--|
| 10.000 km. | 15.000 km. ^{pr. år} | 20.000 km. pr. år | 30.000 km. | Ubegrænset km. pr. år | |
| 1.495 KR./MD. | 1.695 KR./MD. | 1.895 KR./MD. | 2.495 KR./MD. | 2.995 KR./MD. | |
| Ladestander (inkl. drift og vedligehold) | |
| Ubegrænset strøm | |
| Leje af batteri | |
| Ubegrænset antal batteriskift på vores batteriskiftestationer | |

| | | Renault Fluence Z.E. Prime time | Tilsvarende diesel sedan |
|--|---|------------------------------------|-----------------------------|
| facts Udregnet for en 4-årig periode 20.000 km pr. år Rentesats: 8% 100% finansiering Låneomkostninger: 3,5% Brændstofpris: 9,70 DKK/liter | Vejl. pris bil | 208.680 | 370.000 |
| | Afskrivninger | 123.000 | 180.000 |
| | Better Place abonnement eller brændstof | 90.960 | 40.000 |
| | Oprettelse | 9.995 | |
| | Finansieringsomkostninger | 42.500 | 70.000 |
| | Vedligeholdelsesomkostninger | 39.000 | 50.000 |
| | Forsikring | 21.000 | 35.000 |
| | Grønne afgifter | | 15.000 |
| | Totalomkostninger pr km | 4,10 DKK/km | 4,88 DKK/km |

Typisk besparelse i forhold til en konventionel bil

10-20%





Australia: large suburban country proving ground



- Network to be 100% powered by clean energy based on largest-ever, power-purchase deal of its kind in Australia (AU\$60M PPA)
- Renault to begin delivering switchable Fluence
 Z.E. in middle of 2012
- Better Place providing EV infrastructure for federal government's "Smart Grid Smart Cities" initiative
- Partnership with General Electric for first fleet of 1000 vehicles
- EV Engineering building switchable-battery based on GM Holden's Commodore, the top-selling car for 15+ years



Japan: demonstrating the commercial grade of switch

- Switch is the only viable solution to electrify taxis, which drive the most, consume the most fuel, and generate the most emissions
 - Taxis are 2% of Tokyo passenger vehicle fleet but 20% of emissions
- Partnership with Tokyo's largest taxi operator with funding from the Japanese government
- Results:
 - 60,000 km traveled
 - 3,500 automated battery switches
 - Average switch time: 59 seconds

Bay Area Program is seed for commercial network





Objectives

- Prove battery switch as "instant charge" option for unlimited range driving in U.S.
- Demonstrate public-private partnership for regional roll out of EV infrastructure
- Attract OEMs to build switchable EVs for North America
- Lay groundwork for commercial network for consumers

Program highlights

- Expected to touch over 1M consumers in largest North American car market
- Projected to reduce greenhouse-gas emissions by 700,000 tons annually
- High-profile site across from waterfront
- Network of 4 Battery Switch Stations and 60 electric cars



European Commission-backed projects

- Easybat: R&D program to develop standard interfaces for switchable batteries in EV platforms
- Green eMotion: 42-partners from Europe to demonstrate EV including Battery Switch
- TEN-T: Pan European network planning for Battery Switch Stations + pilots in Denmark and Netherlands





European Commission-backed projects



European Commission-backed projects

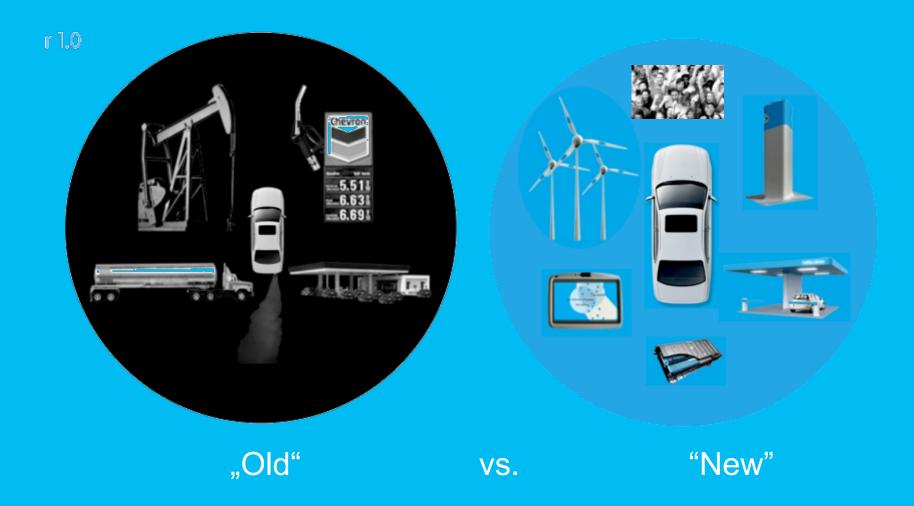


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China Southern Grid partnership to further advance switchable EVs in China

- Engaging carmakers and other stakeholders, supported by Guangzhou government
- Developing joint experience center and China's first automated Battery Switch Station
 - Slated to open before year end in Guangzhou
 - EVs for VIPs and consumers to drive
- Exploring joint commercial operation based on Better Place model
 - CSG services areas cover 230M people





Bertha-Carl Benz Award

Mannheim July 2011





Reality: Denmark





From Vision to Reality

WELCON

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WHULT better place

