ElectroSelf™

The first self-recharging fuel cell

Green Power for Mobile Working Group

Cairo – March 23, 2010

Associate Member



WHO WE ARE

- ✓ Founded Jan. 2005 ElectroPS mission is to develop and manufacture innovative fuel cell systems for back-up power applications.
- ✓ The only company with a product family of **1.5**, **3**, **6** and **12 kW**.
- ✓ **CE** certification obtained 2006. **CSA** certification for the USA in Sept. 2009. **CTTL** certification (China) in Oct. 09.
- ✓ More installed systems than any other fuel cell company in Europe. Since Q4 2009 several systems have been installed in Asia and the Americas.
- ✓ 2009 The Guardian "Global Cleantech 100".
- ✓ World Finalist at 2010 GSMA Mobile Innovation Grand Prix.

Global Cleantech 100 theguardian cleantech

GSMA GLOBAL MOBILE AWARDS 2010 MOBILE INNOVATION GRAND PRIX EMEA TOURNAMENT CATEGORY WINNERS

GSMA Associate Member

CE

ISO 14000

Member of CISQ Federation RINA ISO 9001:2000 Certified Quality System

RoHS compliant 2002/95/EC

TTL

CSA US

REFERENCES







vodafone



























SardegnaRicerche















TWO TECHNOLOGY PLATFORMS TO FULFILL DIFFERENT NEEDS BOTH WITH GUARANTEED OPERATIVE STACK LIFETIME OF 10,000 HOURS.

> AIRTECH™

- ✓ Airtech™ is the first fuel cell platform designed by ElectroPS.
- ✓ Airtech™ offers compatible startup and run times to UPS and Genset solutions, with higher reliability and lower dimensions, weight and life cycle costs.

> DOX™

- ✓ It leverages the direct injection of both hydrogen and oxygen. The result is enhanced robustness and lower noise.
- ✓ This system can work at any altitude and air quality conditions like heavily polluted areas or during desert storms.

Wide scale deployment Telecom operator

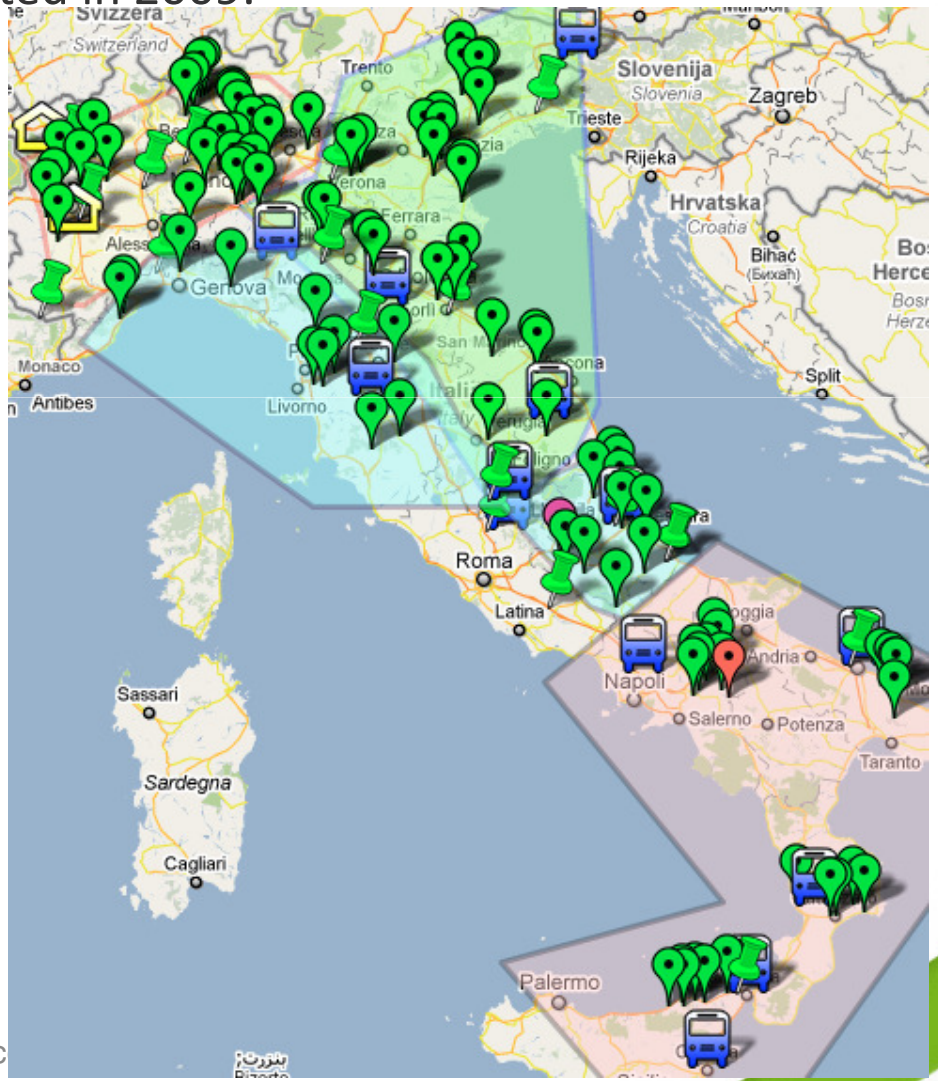
Italy

Wide scale 100+ units deployment completed in 2009.

More units to come in 2010.







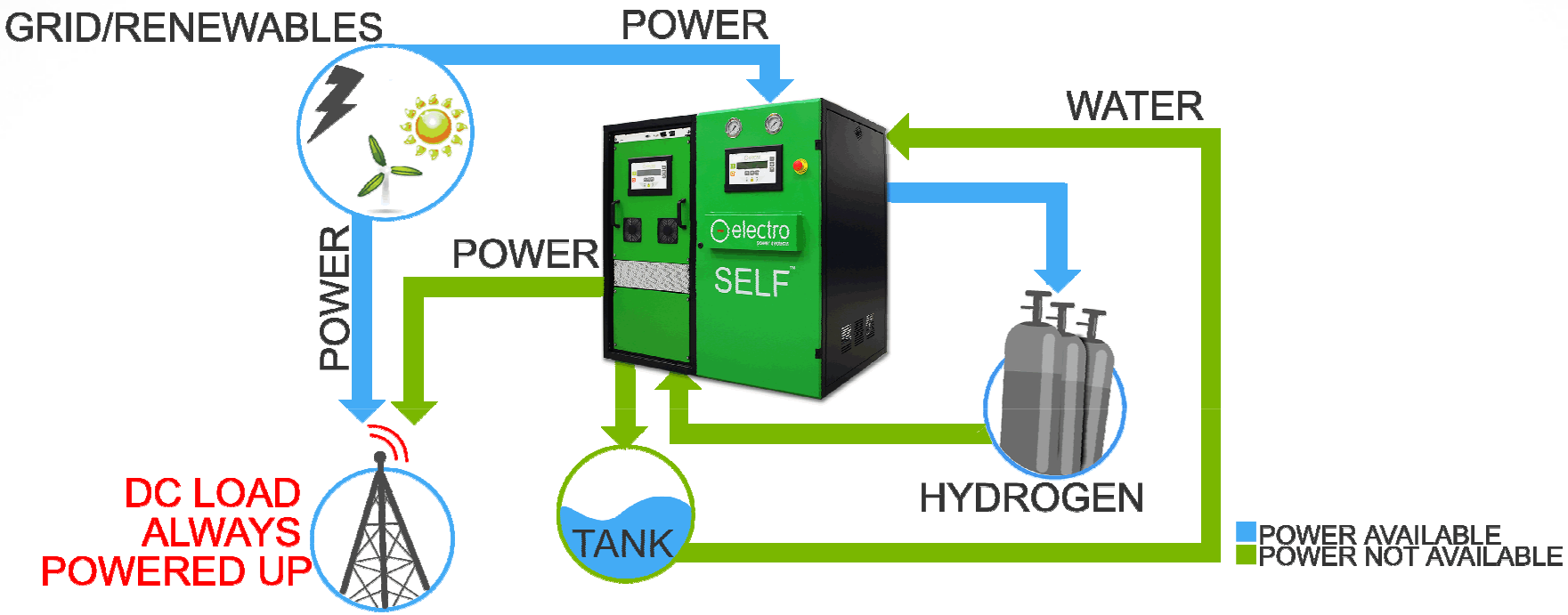
Strictly c

INTRODUCING ELECTROSELF™

- ✓ It's the world's first entirely self-recharging hydrogen fuel cell.
- ✓ It changes the economics of backup power making fuel cell adoptable everywhere.
- ✓ It enables greener networks in developing markets.
- ✓ Designed to optimize and extend both renewable and grid power.
- ✓ Field trials in EU, Asia and Americas + CE certification ongoing.



HOW DOES IT WORK?



- ✓ ElectroSelf™ is a closed system which is completely self-recharging.
- ✓ It engages automatically whenever external power fails.
- ✓ Whenever power is available it automatically generates its own hydrogen from water.

> THE PROBLEM WITH LEGACY TECHNOLOGY

- Legacy technologies can be **complex** and **unpredictable**.
- Operations and maintenance are very **expensive**.
- **Troublesome** fuel refilling **logistics** and high emissions.
- Low tolerance to unstable grids

> PEACE OF MIND THROUGH ELECTROSELF™

- ✓ **Increased Reliability** also thanks to 24/7 remote management and control.
- ✓ Secure and **inexpensive** hydrogen on-site production: no emissions and no on-site visits to refuel or perform maintenance checks. Independence from diesel price volatility.
- ✓ Able to **ensure energy** supply also in **poor** quality **grid** conditions
- ✓ **Secured Supply and Safe Operation** in every condition: indoor, outdoor, extreme environmental conditions (cold/hot weather, polluted or prone to hurricanes/storms area, desert, sea level, mountains ..**everywhere**).

Strictly confidential

THE MAGIC WORD SAVINGS !

- ✓ **No** need for fuel: **only water.** Energy source is **power grid** (whose price is historically less volatile than diesel) or **renewables**.
- ✓ **Longer lifetime, less replacements**
- ✓ **Remote monitoring 24/7** via TCP/IP, SMS or customized protocols. No need for on-site visits.
- ✓ **No** or **lower air conditioning** requires less energy.
- ✓ Thieves love gensets and diesel**, not H_2**



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