



POWERING TRUCKS USING ELECTRIC LINES

→ Clean air is a basic human right – in and outside of traffic. Using overhead electrified wires, trucks now can run on electricity on an “eHighway.”



ECONOMIC

The rising costs of fossil fuels require an alternative approach; shifting to electrified transport allows for room to make the most of renewable energy.



SOCIAL

An estimated 4.6 million people die every year from causes directly attributable to air pollution.



ENVIRONMENTAL

Moving away from fossil fuels minimizes CO₂ emissions from heavy trucks.

THE SOLUTION

! Hybrid trucks combine the use of diesel engine and electric motor. Combining hybrid trucks with overhead electrical wires on highways, Siemens is able to provide an “eHighway” system that eliminates diesel emissions and noise on heavily travelled stretches of highway or urban routes.

The solution comprises specially equipped hybrid trucks that automatically connect to the overhead electrical lines, after which the truck exclusively runs on electrical power. Upon disconnection, the truck automatically switches to diesel. The widespread adoption of the eHighway would make trucks equipped with an electrical drive system able to connect to the overhead electrical lines regardless of engine type.

WHY A SUSTAINIA100 SOLUTION?

? Due to poor infrastructure and inefficient engines, trucks have for a long time been a major source of smog and toxic chemical pollution linked to cancer and respiratory problems for affected populations. Investing in sustainable solutions that minimize pollutants from traffic provides immediate public health benefits and minimizes dependency on fossil fuels such as diesel.



www.siemens.com



THE GREEN BUSINESS DISTRICT

→ By integrating sustainable design into every step of the building process, this East Asian financial hub is charting a path for modern business districts to follow.



ECONOMIC

Songdo International Business District has been able to attract several billion dollars in investments into the project of building a sustainable East Asian financial hub.



ENVIRONMENTAL

When built, the buildings of Songdo International Business District will on average use 20% less water and 14% less electricity than a typical city of the same size.

THE SOLUTION

! Large green areas, extensive public transportation, luxurious LEED-certified residential buildings, and 25 kilometers of bike paths are in the Songdo International Business District. The district will, upon its completion in 2015, be the largest private LEED development in the world, housing more than 65,000 residents and 45 million square feet (4,180,500 m²) of office space.

Green areas covering more than 40% of the district will together with rooftop vegetation help reduce stormwater floods and reduce the urban heat island effect during hot summers, making the city less dependent on artificial cooling.

Average apartment prices in Songdo are estimated to be \$500,000, making it a city for those who can afford to pay. Despite this exclusivity, the city does showcase how a modern financial hub can combine luxurious lifestyle with sustainability to attract international investments.

WHY A SUSTAINIA100 SOLUTION?

? With projected investment inflows of \$35 billion, the Songdo International Business District shows how sustainability can be attractive to large financial investments. Moving towards a sustainable society, Songdo proves it is possible to bring onboard the financial sector.



SOUTH KOREA



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