

PRESS RELEASE

EUROVIA INVENTS POWER ROAD[®], THE POSITIVE ENERGY ROAD

- | Collect, store, and share heat energy
- | Capture up to 20% of the sun's heat
- | Meet 100% of heating needs for a 70-m² housing unit with a 25-m² road segment
- | Melt 10 cm of snow in just a few hours

With Power Road[®], Eurovia has devised a new function for roads, namely, the production of heat energy. This development allows roads to capture the sun's heat energy, which can be stored and distributed to nearby buildings and infrastructure through a heat-pump system.

Energy produced in this way can heat residential and office buildings, shopping complexes, eco-neighbourhoods, and public structures such as swimming pools while enhancing their energy mix. In winter, this energy may also be used to remove snow and ice from roads and airport runways, thereby reducing the need for salting operations. In summer, above-ground heat capture can cool roads and, as a result, lessen the effects of urban heat islands.

"With Power Road[®], roads remain roads but they play a new role in our transition to a carbon-free economy. By storing heat energy, we can now shift the phasing of the production and consumption of a renewable energy source," states Pierre Anjolras, President of Eurovia. *"Power Road[®] is a multiple-purpose solution that provides huge development potential that is proportionate to busy urban transport networks."*

Power Road[®], which was developed by Eurovia in partnership with public and private-sector players (IFSTTAR⁽¹⁾, CEA-Tech⁽²⁾, and Burgeap) and is truly a building block for smart cities, received funding support from Programme Investissements d'Avenir (PIA), which is managed by ADEME⁽³⁾.

In addition to producing renewable energy, Power Road[®] is itself a sustainable process. Its component parts – particularly, the tubes that make the heat exchanger – can all be recycled. Operating it is compatible with Eurovia's proven environmental solutions, including warm asphalt mixes and road-material recycling. In addition, with its ability to regulate temperature, Power Road[®] prevents warping stresses, thereby extending the lifespan of roads.

ABOUT EUROVIA

Eurovia, a subsidiary of VINCI, is one of the world's main transport infrastructure construction and urban development companies. Eurovia builds transport infrastructure – roads, motorways, railways, airports and light rail systems – and participates in the development of industrial, retail and urban sites. The company provides the full range of related expertise – demolition and deconstruction, drainage, earthworks, main services, road signs, road marking, engineering structures and noise barriers. Thanks to its network of industrial facilities producing aggregates and materials for road and railway construction – Eurovia covers the entire supply chain. Operating in 15 countries, the company employs 38,000 people and generated revenue of €7.6 billion in 2016.

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⁽¹⁾IFSTTAR (Institut français des sciences et technologies des transports, de l'aménagement et des réseaux) (French institute of transport science and technology)

⁽²⁾CEA Tech is the technology research hub at CEA (Commissariat à l'énergie atomique et aux énergies alternatives) (French alternative energies and atomic energy commission), which is made up of three institutes (Leti, Liten, and List) as well as Institut CEA Tech en région (the regional CEA Tech institute)

⁽³⁾ADEME (Agence de l'environnement et de la maîtrise de l'énergie) (French environment and energy-management agency)