



Innovative patents ltd

Website: innopatent.com

Solution at a Glance

We develop green energy generation solutions focused on transportation infrastructure. Our flagship product, the “Bumperon” is a speed bump installed in the road, which generates electricity as cars pass over it. By harnessing the kinetic energy of the vehicles which would otherwise be lost, we are generating green electricity at a price per kWh that is significantly more attractive than that offered by other green energy generation solutions.

Customer's Challenges

In many urban and transportation environments, there is a need for traffic to slow down either for pedestrian safety, or because of a barrier (for security or payment). As a vehicle slows down, the kinetic energy of the vehicle is lost. Bumperon offers an opportunity to harness that energy and convert it to electricity thereby offering additional revenue streams for locations which would otherwise not have been considered profit centers.

Our Offering

Innopatent have developed the Bumperon – a unique product installed in the road, often replacing existing speed bumps, and which converts the kinetic energy of a slowing vehicle to electricity. The Bumperon can be installed in any location where a high volume of traffic is moving slowly including:

- Airports, ports, bus and rail stations, car parks, toll booths
- Slow moving highways during rush hour traffic
- The Bumperon concept can also be applied to trains slowing in stations

The number of Bumperons and the electricity generated at each installation is determined by the site and the volume of traffic. Multiple units can be chained together to provide optimum generation and revenue generation.

Unique Differentiators

1. The Bumperon is based on patented technology for optimizing the conversion of kinetic energy to electricity.
2. The Bumperon can replace existing speed bumps. It does not require significant replacement or upgrading of the road.
3. Low purchase price, high return on investment and low maintenance costs compared to other forms of green energy generation.

Business Benefits for the Customers



- Bumperon units harness kinetic energy which would otherwise be wasted and generates revenue.
- Actual electricity generated depends on frequency and weight of traffic but estimated production per unit is 6.6 kWh per 1,000 vehicles
- Generates “green” electricity at very attractive price
- We estimate the cost per kWh in line with grid-generated electricity, far more competitive than other green sources of energy.
- Relatively low up-front investment compared to other green technologies such as PV or wind.

Company References & Strategic Partners

We are a start-up and the owners of the company have invested significantly to reach the stage of a working prototype. We are now ready to move forward with the next stage of commercialization of the product.

Company references:

Main partners:

Investors: Self-funded by the management.

TARGET LIST

Innopatent is offering its patented technology to licensees who wish to continue the development and commercialization process.

We are looking for investors, strategic partners and suppliers who are able to work with us to move from prototype stage to full production.