

“Electro-Light®”

The Atlantic Corridor Electric Transportation Project



Passenger, Mail, and Freight Electric Train, the Modern Town and City Connector designed by Graviton Dynamics Inc., part of The Strategic American Light Railway System

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Scientific Environmentalism, The Tool for Job Creation and Economic Recovery

The project aims at promoting cooperation and collaboration among the Atlantic Corridor States and to share technological breakthroughs (Energy-On-The-Move) for the benefit of regional exchange, economic growth, and expansion. Efficiency means doing more with less, cost cutting with intelligence, and forming strategic alliances and Private Public Partnerships, laying the groundwork for an inter-city and town connector, an advanced electric train link that is both feasible and affordable.



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Technology Definition:

Energy-On-The-Move®/ Micro Generative Technology for Advanced Electric Train Transportation (Light Railway System) with V2G = ET2GG, Electric Train (Transportation) to Green Grid Capabilities from Clean, Renewable Energy Sources. It is an integrated self-generating power technology, offering multiple-hybrid solutions without traditional steel railway tracks for short and medium range regional networks and connections.

Technology Introduction:

Graviton Dynamics has produced the needed breakthrough—an advanced electric train for the light railway system with surplus energy injected into the green grid, to be known as ET2GG, electric train (transportation) to green grid capabilities, comparable to V2G. The technology confirms the amalgamation between electric transportation and the green grid/ green infrastructure for new urban developments. It is an advanced all-electric light railway system technology.

Graviton Dynamics technology is an absolute zero carbon emission because it is based on **Self-Generating Power Technology, or Energy-On-The-Move, similar to EVs, an innovative method of advanced, continuous regeneration**, something that has never been used or heard of before and that taps unexplored areas that have never been touched previously.

Graviton Dynamics is the first company/ catalyst to highlight and create in a tangible way the link between **total road electrification, electric transportation, the smart built environment, and the smart green grid**. They form an essential cycle to spin the wheel of the economy. They are inextricably linked and connected. In other words, these are the strategic goals and objectives that we must follow to achieve economic growth and expansion, along with full environmental sustainability that yields sharp GHG/CO2 reduction and contributes to full economic recovery. Graviton Dynamics is simply a pioneer with complete blueprints for the future. Hence, Graviton Dynamics' universal technology is applicable to all forms of transportation and the logistics of light railway systems.



This simple and convenient capability makes Graviton Dynamics' breakthrough both an economically feasible and a tangible solution. For the first time, **ET2GG** will make sense because we are achieving both an economic and environmental equilibrium, in other words, sustainability, if not an absolute environmental solution and the beginning of total de-carbonization. If road electrification becomes a reality, then it needs a conductor and a wire, which will yield absolute clean energy and is simply a smart green grid. Skyrocketing energy prices will make these solutions even cheaper and more attractive sooner or later. Volatile prices are the enemy of a stable economy. Alternative and renewable energies are not scarce; oil and petrol are.

This invention focuses on harnessing free energy to power electric trains as a **Self-Generating Power Technology with surplus energy to form a smart green grid that is capable of injecting electricity into regional power grids. The integration of freight and mail services also makes it commercially viable and profitable at early stages with shorter pay-back periods.** The technology concerns the use and application of several hybrid technologies to increase the level of energy generated by the exploitation of each available space to scavenge as much energy as possible. The technology is a new application of electro-automotive technology that depends on perfect aero-dynamic vehicles with sufficient comfort and speed for passenger travel.

Electric Train-to-Green Grid, or **ETV2GG**, means that this type of electric train is capable of discharging electricity in the anticipated green grid of renewable sources. Further development will make the electric train a dual function utility because in addition to transporting people and goods it will generate electricity in a stationary position, making it capable of conserving sufficient energy to re-start a journey without re-charging. This advancement is possible since thin film PV technology is becoming more efficient with time. **Thus, the light railway system/ infrastructure of the future become a mobile sub-station that generates electricity.**

The system is an electro-automotive technology applied to light railway systems for short and medium distance travel but at a higher speed than that applied on the road, meaning 80-120 MPH. The system does not use steel tracks, and generates its own energy to power train cars. The electric train system focuses on the integration of new electro-automotive technology into a light railway system (Energy-On-The-Move), which makes the electric train fully independent of the national grid at a maximum rate and close to 99%. This difference is a critical point in the overall view that electric train charging is dependent on the national/ regional grid and thus uses fossil fuel. Graviton Dynamics new invention eliminates this problem once and for all, producing a fully electric train that is light weight, self-charging, and with absolute zero carbon emission. Revealing secret details of the technology is at the discretion of the inventor.

Graviton Dynamics Inc. is becoming the commercial arm of (IIfET) International Institute for Electric Transportation due to the complexity of research and development and to stimulate the stream of funding for other complex inventions. This process is necessary to bring the technology worldwide with technical publications and dissemination. The IIfET aims to become an academic institution to conduct R & D permanently.



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