

PRIMOVE
 The New and Innovative System for Bombardier
 Catenary Free Light Rail Vehicles
 The Climate is Right for Trains

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Catenary Free Operation
 Catenary Free Operation improves city's attractiveness

- Historical city centres ...
- Garden areas ...
- Monuments ...

... benefit from elimination of overhead wires !

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 The inductive principle

Since many years the inductive principle is well known:

- Schematic principle of a transformer**
 - Iron core
 - Primary and secondary windings
- Iron core can be split**
 - Air gap between primary and secondary winding possible
- Primary side can be modified**
 - Primary winding around iron core can be replaced by several cables

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 Bombardier's catenary free LRV

- LRV equipped with underneath pick-up device
- Power cable invisible in the ground for permanent supply
- MITRAC* Energy Saver for optimized performance

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 Unique Selling Propositions

- Permanent power supply at any speed
- Same performance of LRV as with overhead lines
- Total safety for other users of the street: pedestrians, animals, cars, trucks, etc...
- Complete invisible → improves city's attractiveness
- No contacts → no wear and tear
- Adaptable to all kind of surfaces such as pedestrian areas, gardens, etc...
- Totally weather independent: ice, snow, water, sand, storm, etc. *have no effect on performance*

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 Summary

PRIMOVE is feasible for a wide range of applications:

- 100% catenary-free networks
- Partial catenary-free sections within a network, i.e. in historic city centres
- Different vehicle types to be equipped: 30m and 40m trams, metros, Diesel commuter trains, electrical-busses,...
- Adaptation of transmitted power: 100kW up to 1.000kW, depending on the application
- Simplification of energy supply in tunnels
- Where overhead wires cause safety issues

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