

Columbus LIGHT RAIL SYSTEMS™

Scope of activities

Columbus LIGHT RAIL SYSTEMS began many years ago in 1982 with light rail testing platforms, including solar powering and solar assisted transport, fault-tolerant train management systems and enhanced light rail signalling systems.

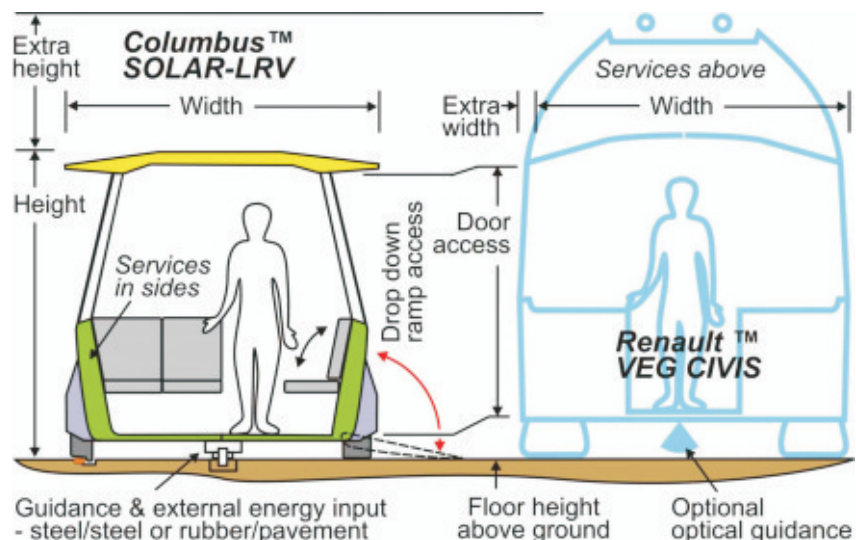
The Light Rail platform below was part of this strategy.



Comparative designs

Comparative designs with existing Light Rail Platforms like the Renault CIVIS programs, demonstrate that the Columbus LIGHT RAIL, (both steel wheels on steel track, SOS, and POP, pneumatic tyres on pavement), have superior design aspects like:

- Lower Floors
- Ramp access options
- Higher door heights
- Greater shielding of windows for less air conditioning needs
- Easier side pod servicing (vs roof mounted services)
- Narrower profiles for narrower pathways
- Improved energy management and off-track power sources
- Onboard solar energy generation support
- Improved guidance systems



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Background

Columbus LIGHT RAIL SYSTEMS are ideally suited to

(A) Matching sustainable projects with community needs, like:

- Energy management
- Energy conservation
- Employment creation
- Export incomes
- Joint ventures

(B) Combining LIGHT RAIL with other utilities, like:

- Electricity generation and distribution
- Drinkable water reticulation
- Stormwater collection, treatment & recycling
- Gas distributor networks
- Broadband communications
- Coverage of open drains
- Walking and bike pathways
- Improved street light

(C) Support with Columbus demonstrated technologies, such as:

- Award winning IT SECRETS Industrial Software
- Robust engineering from automated mining
- Attractive design, (using 1:1.618 design ratios)
- Socially accepted seating arrangements (2+1)
- Demonstrated energy saving strategies

(D) Preferred development options, including:

- Joint venture technology transfers
- Know how AND know why
- Partially knocked down manufacture
- Core technology 'black box' inclusions into trains

Next steps

- Identification of possible joint venture partners
- Identification of practical sites for further study
- Development of sustainable energy solutions to meet needs.
- Co-siting studies with other community wanted utilities
- Commercialisation studies



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