"Let Us Breathe"

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A

presentation by

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Chairman,

BCIMO

12th December 2024

Light Rail UK believes in the proven success of current UK Tramways and the merging of the ongoing successful development of science & technology in the Hydrogen field,

driven by

Climate Change demands.



*Light Rail (UK)

*Is a trading name for Light Rail Solutions UK 2024 Ltd, a CIC Company.

An association

of :-

Light Rail Consultants
Transport Engineers
Politicians, Academics
Environmentalists
Financiers & Funders
Developers

Commercial Specialists in Affordable & Sustainable Tramways

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The problem(s)

Congestion & Poor Air Quality



Mountains of assorted plastic



Government (s) and LA's response



Or Skint!



"Let Us Breathe"

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A solutions is HTaaS!



Private
Infrastructure
investment
Funding



Very Light Rail (VLR)

Less than £10M per track KM.





Mine and repurpose Urban Tip sites



Why VLR Trams?

Some benefits of Very Light Rail

No pollution at point of use, no particulates (PM10 & PM 2.5<) more efficient use of urban road space

Achieving wider economic and social objectives of employment, inclusion, and accessibility in the communities served by rail

The spine of most urban, inter-urban sustainable integrated transport plan

Less than £10 million per KM (2023)

Being mindful of the Western world ageing population, trams are fully accessible and easy to use

High modal switch averaging 28%-32%

in the year ending March 2023 passenger journeys increased on all of the 8 light rail systems by between 9% (and 58% Passenger revenue increased year ending March 2023 17% - 67%









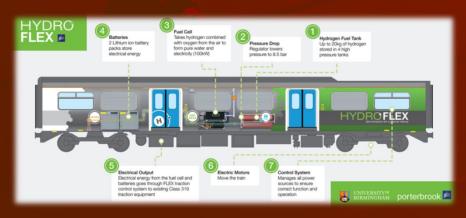
How can VLR trams use Hydrogen?

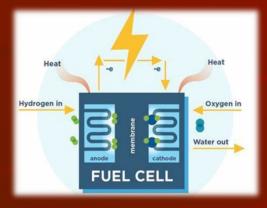
RENEWABLE ENERGY SOURCE SUSTABABLE SUSTABABLE STREETCAR STREET



On board









High Floor Trams

Tritonex treated cylinders



How can VLR trams use Hydrogen?





OHLE - Pantograph



OHLE - Traditional Trolley Pole



OHLE - Bow Collector



Overhead charger for Tram & Bus



For depot and operations beyond the wire operation



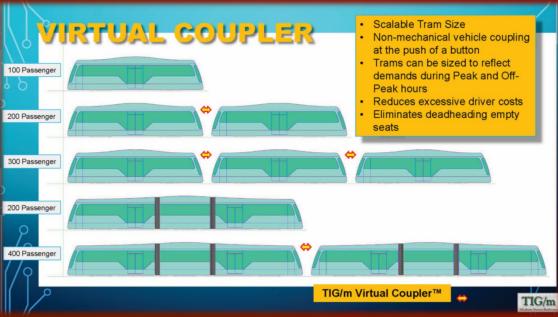
APS
Alimentation Par Sol





How can VLR trams use Hydrogen?

Video, if time available!



https://www.youtube.com/watch?v=31KpWSOYy5w

https://www.youtube.com/watch?v=Y3EbB8PSwPA



National
Security of
Power in time
of strife,
Ukraine War
and other
conflicts later
this century

An independent power station in every town

Reduces the need for more intrusive 'Grids in the countryside



Hydrogen trams in Doha can run for 2 x 18-hour duty on 1 x kg H2



Why Hydrogen?

Hydrogen is the most abundant element in the universe with almost no pollution when burnt, making it a desirable source of power.

Hydrogen is a versatile energy carrier with a wide range of potential applications.

It can be used in fuel cells to generate electricity and heat, making it a potential energy source for buildings and electric vehicles.

It can also be used to store renewable energy, helping to balance the supply and demand on the power grid

As we continue to innovate and improve hydrogen production methods, the cost of renewable and nuclear energy will continue to fall, the role of hydrogen in our energy systems will set to grow.

HYDROGEN H2

£15 per Kilo?

Hydrogen holds immense potential as a sustainable energy carrier. While there are challenges to overcome, particularly in terms of cost and infrastructure, the benefits of hydrogen in terms of sustainability and versatility make it a key player in the global energy transition to Net Zero.



What can be done at the "Tip Site" location?



An absolute game changer for all things
Hydrogen

with 100% Angel share corrosion protected



+Oceanic plastic feedstock

Off peak site storage, re**-s**ale at peak

Production plant for Tritonex & Tritonor

(A set up dowry of £11 million possible!)





Multi sustainable input

(Illustrations Only)



Peel Holdings Plastic Park Ellesmere Port

"Let Us Breathe"



Road vehicle fueling

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Revenue Stream By-Products

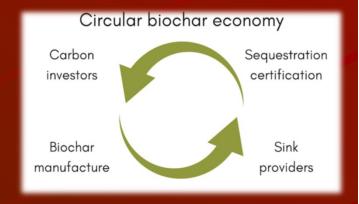


On/Off peak storage







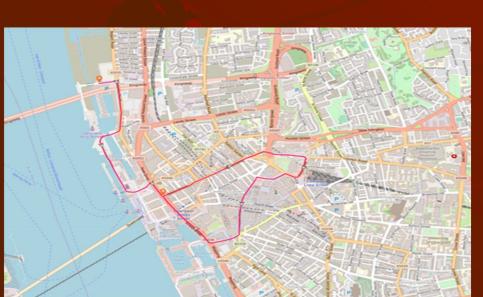




Types of VLR Off Taker Applications



Preston Dock Line, on board H2 over Battery



Liverpool Cruise Liner City VLR Shuttle



Glasgow, Hydrogen by wire/on board

LR UK Tram Tracker
has identified
76 + UK Cities & Towns that would
benefit from

"Hydrogen Trams as a Service"



A Circular Project





Green Rebates returned to the Municipality's Infrastructure Loan Repayments.



Will Tramcar use in City and Town Urban Transport in the near future make this a Sunrise or a Sunset for Tramways and Urban living?

Daing Nothing is not an Option!

Getting it wrong is unforgiveable.

- its your world!

Apollo June 1996



Thank You for Listening





Penetrates to the shopping area!

All weather service

Any Questions?

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