

On the Train Towards the Future!

Sustainable, complementary and appropriate mobility in & in-between carfree communities

MMU - Methane Multiple Unit for Egrensis Euroregion

What:

First generation, low-floor, modern DMU, the Siemens/Düwag RegioSprinter, re-engined with two gas engines + ultracapacitor-based system to compensate for weight of gas system, which is fed by regenerative braking. Train is thus effectively transformed to having Diesel-Electric drive. Methane source is biogas, made and delivered in Czech Republic or Germany, and used by train in for service run by Vogtlandbahn/Viamont in both countries. Train also runs into centre of Zwickau on modified tram tracks (www.egronet.de, www.vogtlandbahn.de, www.viamont.cz)

Why:

2012 Diesel emissions limits (Stage IIIb) require technology exceeding what is currently available, including, for example, newest engines with particle filter used in latest Alstom LINT DMU. The first RegioSprinters will be 17 years old in 2012

Oil and natural gas prices unpredictable (at best), during second life of vehicle

Citizens of region responsible for their own mobility choices and energy sources

Post-agricultural and post-consumer source for methane, providing “closed loop” of energy in region

EU is favourable to “distributed-energy” schemes

VARIANT ONE - DMU homologated for Denmark, Germany and parts of Czechia



REGIOSPRINTER, by Siemens/Düwag

More:

Biogas could also be used to replace CNG in city buses also part of Egronet

Additional possibility to use waste methane from local coal mines

RegioSprinter services run to Karlovy Vary, site of most famous film festival in CEE, so perfect for public outreach (including ecologically-minded celebrities!)

Egronet services intersect with future “Iron Curtain Trail” - www.michael-cramer.de/mauer/ict_en/index.html

Technology based on working Swedish biogas train, earlier German/French CNG XDMUs, and Nürnberg Ultracapbus - www.vag.de/barrierefrei.php?pid=102



Project partners



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www.worldcarfree.net/onthetrain

Seed funding by



www.milieukontakt.nl

Local trains, local fuel, local management/ownership!