



PKP ENERGETYKA

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About PKP Energetyka Inc.

Country: POLAND

Distribution



- The only DSO with nationwide operations
- The only entity to distribute traction energy
- The fifth longest network (20.2 thousand km)

Services



- **The only entity to provide traction network maintenance service**
- Market leader for the modernisation of railway energy infrastructure

Sales



- 5th largest entity in the energy sale market (2015)
- **The leading traction energy supplier**
- Loyal business customer base

Fuels



- Market leader for the sale of fuel oil for diesel traction vehicles

One of our EU cofounded projects

MUZa - the largest investment project



Total cost of investment: ca. PLN 1 billion

EU funding: ca. 85%

Modernisation of Traction Power Supply Systems - target

MUZ-a



3 817

plots obtained



314

administrative
decisions obtained



ca. 500

technical employees
of the Company
involved in the project



94

modernised and newly
constructed power
supply objects



153

sets of rectifier
units installed



638

transformers
installed



23 940 m²

total floor area of
erected /
modernised buildings



348 km

power supply
lines installed



322,1 MW

total installed power increase
(from 641.8 MW
to 963.9 MW)

R&D&I Team

We introduce innovations to all Polish State Railways Group Companies.
We realize projects involving internal and external partners.



Technical cooperation
with other enterprises
and research institutes



Realization of innovative
projects within the Group
PKP Energetyka



Coordination of
fundraising for
innovative projects

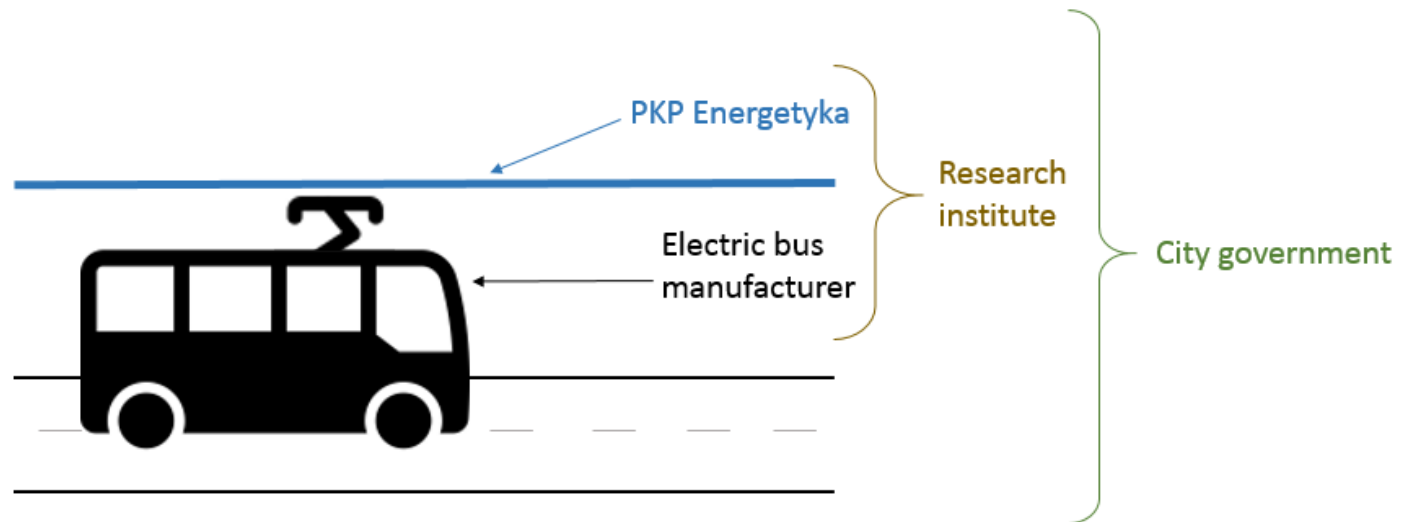


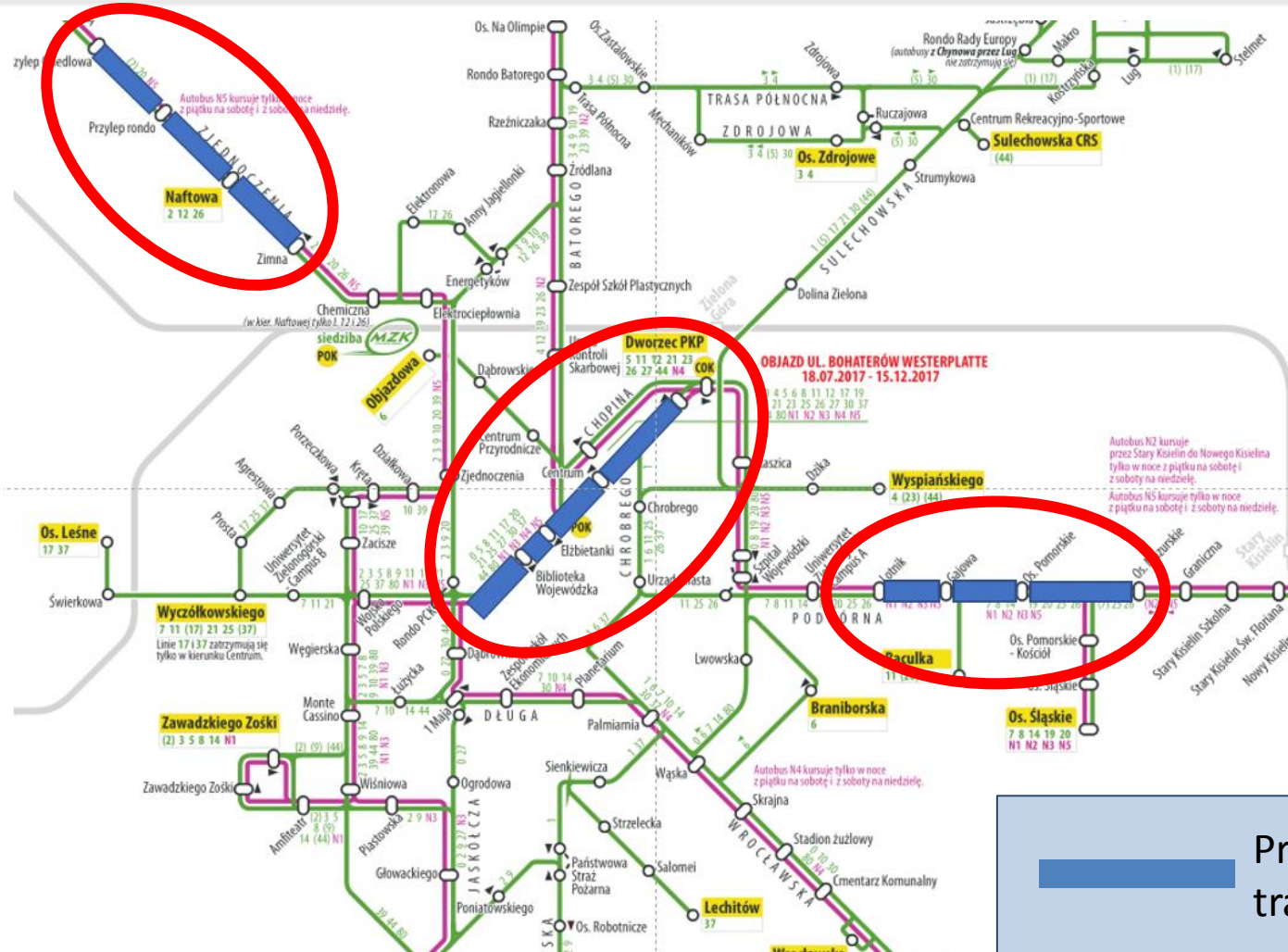
Setting new standards
in the Group PKP
Energetyka



Solution developed by PKP Energetyka – *E-traction*, is based on installing traction lines above selected streets of chosen cities. Electric buses equipped in pantographs could benefit significantly by charging their storage batteries while **driving**.

Current methods of charging electric buses do not allow for mobile charging. Drivers are required to stop and connect the vehicle either by plug-in cable or pantographs with dedicated chargers.





Relevant 2018 call topics



Workshop 1: Smart, Sustainable and Resilient Cities and Energy Efficient Buildings

- Visionary and integrated solutions to improve well-being and health in cities

Workshop 3: Mobility for growth

- InCo flagship on reduction of transport impact on air quality
- Coordinating national efforts in modernizing transport infrastructure and provide innovative mobility services

Workshop 3: Green vehicles

- Integrated, brand-independent architectures, components and systems for next generation electrified vehicles optimised for the infrastructure
- User centric charging infrastructure
- Low-emissions propulsion for long-distance trucks and coaches

Objectives:

- Development of unified standard of city traction line and safe operation procedures
- Development of sustainable pathways to reach potential passengers of public transport
- Facilitated access to public transport for disabled people

Expected results:

- Lower CO₂ emission
- Improvement of air quality in cities
- Incentive to use public transport
- Focus on citizens
- Preventing citizens from being excluded

Consortium - profile of known partners

Partner Name	Type	Country	Role in the Project
University of Zielona Góra	RTD	Poland	Technical support concerning charging and energy storage systems



-  Zielona Góra
-  Warsaw

Consortium - required partners



Expertise	Type	Country	Role in the project
Electric bus/coach manufacturer	IND	Countries of Western Europe, CEE, the Balkans,	Responsible for manufacturing and improvement of electric bus/coach with pantograph
City government responsible for public transport	PUBLIC	Countries of Western Europe, CEE, the Balkans,	Responsible for area required for tests
University	RTD	Countries of Western Europe, CEE, the Balkans,	Responsible for social aspects of the project



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