ENERGY EXPERT GROUP

1. Characteristics and Objectives of the Expert Group Professional Focus

Characteristic of professional focus:

• the group is focused on requirements of interoperability, related standards and technical solutions for the Energy subsystem

Objectives of professional focus:

- create support for representatives of the Czech Republic in the European institutes and their working groups
- create conditions for members of Technology Platform (TP) in R&D activities and participation or cooperation on national and international projects focused on needs of TP members
- 2. Contents of Expert Group Activities

Activities focused on the following areas:

- issue of "Transition to a unified power supply system 25 kV 50 Hz"
- issues of high-speed lines, especially power supply and overhead lines for high-speed lines
- support for the preparation and implementation of projects in the field of power supply to the railway network and overhead lines
- preparation and organization of workshops and training activities in the field of the energy subsystem
- participation in NB-Rail SG Energy meetings and participation in national and foreign conferences, seminars, etc.
- 3. Composition of the Expert Group

	Name	Company/Institution	Expertise
Manager	Ing. Lenka	EUROVIA CS a.s. (TP	Interoperability
_	Linhartová	IŽI)	
Deputy of the	Do. Ing. Pavel	ZČU FEL	Power electronics,
Manager	Drábek, Ph.D.		Electromagnetic
U			compatibility,
			Electric drives
Members	Ing. Petr Bošek	Správa železnic	Strategy
			Department
	Ing. Radovan	Výzkumný Ústav	Interoperability -
	Bureš	Železniční a.s.	assessment of the
			energy subsystem

	Ing. Radovan Doleček	Správa železnic	Electric traction and power supply
	prof. Ing. Jaroslav Novák, CSc.	UPa DFJP	Power electronics, Electric drives, Microprocessor control
	Jiří Podhradský	SUDOP Brno spol. s r.o.	Designing, Energy calculations
Other Associates	Doc. Ing. Martin Pittermann, Ph.D.	ZČU FEL	Power electronics, Electric drives

4. Specific Expert Group Collaboration with the other Members of TP IZI

Member of TP IŽI	Content and Focus of Collaboration	
Elektrizace železnic Praha a.s.		

5. Overview of Implemented Projects (in the period from 2018 to the end of 2020)

No project implementation	

- 6. Overview of Implemented Expert Group Activities (in the period from 2019 to the end of 2020)
 - Monitoring and participation in solving the problem of "Transition to a unified power system"
 - Participation in the international meeting of NB-Rail SG ENERGY
 - Participation in conferences, workshops on railway infrastructure, in particular the supply of railway lines, high-speed lines and the transition to a single power supply
 - Negotiations on the use of hydrogen in rail transport
- 7. Representation of the Expert Group in National and European Institutions

National or European Institution	Name	Work Place
NB-RAIL SG ENERGY	Ing. Radovan Bureš	Výzkumný Ústav Železniční a.s.
Expert Advisory Group to the Shadow Program Committee "Climate, Energy and Mobility"	Ing. Lenka Linhartová	EUROVIA CS a.s. (TP IŽI)