

## Business Interest Group

A major objective of REMPLI is the dissemination of all knowledge created within the project. To this end, a Business Interest Group (BIG) has been established as an integral part of the project. Its function is to broaden the project scope by having direct contact to and feedback from potential users of the developed technology. Another purpose of the BIG is to serve as an advisory group in order to provide inputs concerning possible applications and user requirements on a European level.

The BIG will consist mainly of utility companies, energy agencies, and technology users such as service providers or equipment suppliers. They will have early access to the project results and will be involved in the review and discussion of the system requirements, specifications, implementation of the prototype platform, and the field test. The BIG is intended to be an open group, members can join at any time during the project.

If you are interested to become a member of the Business Interest Group, please have a look at the project web site where you will find an application form. We look forward to your participation.

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## Project Partners

### ICT

Institute of Computer Technology - Vienna



### TCE

TeleControlExpert GmbH



### iAd

Gesellschaft für Informatik, Automatisierung und Datenverarbeitung mbH



Institut National de Recherche en Informatique



Instituto Superior de Engenharia do Porto



Research and Development Sector of the Technical University of Sofia



Toplofikacia Sofia EAD



### MEER

Ministry of Energy and Energy Resources



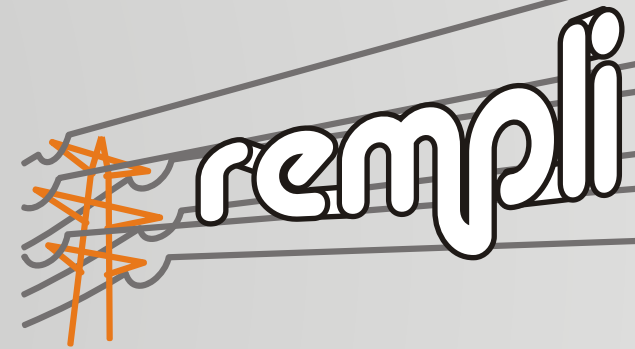
Agência para a Energia



## Contacts

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[www.rempli.org](http://www.rempli.org)



# Real-time Energy Management via Power-lines and Internet

[www.rempli.org](http://www.rempli.org)

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# Objectives

Efficient energy management above all requires a communication infrastructure for monitoring and control of energy distribution and consumption. Solutions for remote meter reading based on powerline communication have already existed for several years. Nevertheless, their data rates are too small to achieve reasonable time resolution and management capabilities have been completely missing. REMPLI intends to remedy this situation and to create solutions for energy savings in large-scale energy distribution networks. The communication infrastructure is based on an improved powerline communication concept and IP-based backbones. Established data transmission standards and legacy systems will be supported. The primary applications are:

- ▶ meter reading and
- ▶ remote control of the distribution network

Additional add-on services are planned; such services can be implemented as extended functionality of the central SCADA system in the same way as they can be realized using the local decentralized intelligence of the REMPLI system components. Therefore, functions like

- ▶ loss and ground circuit detection,
- ▶ automatic transformer control,
- ▶ load balancing,
- ▶ automatic billing and prepayment,
- ▶ fraud detection

can be realized with finer resolution than it was possible until now. Furthermore, gathering of metering data and SCADA-services might be offered as services to external customers gaining so additional revenues out of the already implemented infrastructure.

# REMP LI Power-line Communication Architecture

