



How to arrange electricity for railway undertakings operating in the Netherlands¹

To arrange electricity in the Netherlands for rail transport the following steps (in chronological order) have to be undertaken by the railway undertaking:

1. Approach ProRail (the Dutch infrastructure manager) to contract the service 'use of the electric wire infrastructure'. Within this contract among other things the transportation of the electricity is arranged and paid for.

The contact person at ProRail that can be approached is:

Mr. Peter Danse – peter.danse@prorail.nl

2. Become a member of VIVENS. The application form can be obtained by approaching mr. van Voorden. The VIVENS membership is free.
3. Approach VIVENS to arrange the cost allocation of the electricity and the purchasing of electricity.

The contact persons at VIVENS that can be approached are:

Forecasting / cost allocation - Mr. Coen van Voorden: coen.vanvoorden@ns.nl

Buying of energy - Ms. Karin van der Esch

For the forecasting of the energy usage level the following data is required

- a. A report to analyze the energy characteristics of type of rolling stock used has to be issued by an independent engineering firm. At the moment the firm that is predominantly used to make this analysis for railway undertakings is Lloyds Register Rail Europe (LRRE).
- b. A prognosis of the amount of ton kilometers (for freight transport) or the amount of train & bakkilometers (for passenger transport) has to be provided annually
- c. On the basis of the input of a and b an annual energy usage prognosis can be calculated by VIVENS.

For the contracting and buying of energy

- d. A financial scan of the railway undertaking has to take place
 - e. A contract for cost distribution (cost allocation) among the different railway operators has to be signed. In other words how the energy prognosis is reconciled at the end of the delivery year with the actual energy consumption
 - f. A contract for buying energy has to be signed.
 - g. The actual energy has to be bought each year under the contract mentioned under f.
4. An invoice for the use of electricity will be sent every month based on the contracted amount (prognosis for the delivery year) by the party under f / g.
A separate invoice is sent by NS Reizigers for the indirect costs (fee per kWh) that will be made in the delivery-year.

For the cost allocation after the delivery year information from the reports/contracts under a until g are used to calculate the actual energy consumption for the railway undertaking.

¹ Version 1.0 VIVENS 02-02-2010 KvdE