

**Notification: Research scenarios coal fired power plants in The Netherlands
Organisation: The Ministry of Economic Affairs, Directorate-General for Energy,
Telecommunications and Competition**

Purpose of the notification

The purpose of the notification is to determine whether there are consultants interested to carry out the research.

Extent and duration

The research will start in the beginning of April 2016 and must be finished by the end of May 2016.

Background information

The Dutch Parliament has requested the Minister of Economic Affairs to develop different scenarios for coal-fired power plants in The Netherlands. Currently there are 7 coal-fired power plants in operation. Two of these are expected to close as of 1 July 2017. The scenarios will therefore focus on the remaining five coal-fired power plants. In his letter to Parliament of December 18 2015 (available in Dutch, <https://www.rijksoverheid.nl/documenten/kamerstukken/2015/12/18/kamerbrief-over-het-uitfaseren-van-de-kolencentrales-in-nederland>), the Minister has indicated the aspects that he considers important to be included in the scenarios.

Aim of the research

The aim of the research is to study various scenarios for coal-fired power plants developed by the ministry. The scenarios we envisage are all based on the same basic characteristics, but each includes a different policy measure that aims to achieve a reduction of CO₂-emissions and/or closure of coal-fired power plants. The scope of the scenarios is the North-Western European electricity market. In the different scenarios that need to be studied, the effects of the different policy measures on the following dependent variables are most important:

1. CO₂-emissions in The Netherlands
2. Carbon leakage of CO₂ abroad (CO₂-emissions (North West) Europe)
3. Security of supply
4. Import dependency
5. Prices of energy for businesses and households
6. The potential for the production of renewable energy

The study should make clear how the above mentioned outcome variables differ in the different scenarios. An advanced electricity market model is therefore required.

Principles of the study

- For this study, a reference scenario is required in which the reduction of CO₂-emissions is driven by the Emission Trading Scheme (ETS) and the current fixed and intended policy. Other scenarios are compared against this baseline.
 - For the current policy and intended policy, the National Energy Review (NEV) provides the most up-to-date source. An English summary of the NEV is available at <https://www.ecn.nl/publications/ECN-O--15-040> .

- In addition to the reference scenario, three scenarios, each with a specific set of policy interventions, are defined.
- Effects are calculated in comparison with the reference scenario.
- Assumptions, data etc. should be based on publicly available data as much as possible. Preferably coming from international renowned organizations like for example the IEA.
- The calculations are performed for the North-Western European market. The electricity market model must be sufficiently detailed for the Netherlands, in order to give a representative picture for the Dutch market conditions and expected developments.
- The electricity market model should be able to adjust specific characteristics for the Dutch coal fired power plants.

Budget indication is € 100.000.

Goals and deliverables

The main deliverable is a report in which different scenarios for coal fired power plants in The Netherlands are analysed. Key variables that the report should provide insight into are:

1. CO₂-emissions in The Netherlands
2. Carbon leakage of CO₂ abroad (CO₂ emissions (North West) Europe)
3. Security of supply
4. Import dependency
5. Prices of energy for businesses and households
6. The potential for the production of renewable energy

The report will be made public by the ministry.

Required Skills/ Experience

The consultancy firm should:

- Have extensive knowledge of the electricity market.
- Have experience with electricity market modelling.
- Be able and willing to work with confidential information.

Application

Interested consultancy firms, fitting the above mentioned requirements, are invited to respond to the Ministry of Economic Affairs, to the attention of Liesbeth de Man of the Procurement Office by e-mail iucezteam1@rvo.nl. Please state the name of the contact person of your company and his or her e-mail address.

You do not have to send documents; only a response if you are interested.

The deadline for responding to this Notification is set at Thursday March 3, 2016. After this, the ministry will decide which consultancy firms it will invite to submit a proposal.