

Title of the measure:	HOU-NLD06 <i>Optimal Energy Infrastructure</i> (Optimale Energie Infrastructuur, OEI)
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General description

The OEI (Optimal Energy Infrastructure in Dutch) program is developed by Novem (and continued by SenterNovem and NL Agency) to support municipalities in an early phase of the decision making process of the energy infrastructure for new housing development: the phase of 'vision' and 'master plan'. The energy infrastructure consists of the generation and distribution of energy and the (technical) facilities in buildings. The OEI program for large scale new housing development started in 1997 and was finalised in 2012. In the period 1999-2002 the OEI program also incorporated existing buildings.

Within the program the OEI calculation model has been developed and improved over the years. The model is for new houses development areas of at least 250 houses. In 2011 the OEI 3 became online available. This model is a computer program that calculates energy flows and the emissions related to the energy conversions and estimations of the investments and (annual) costs related to the use and conversion of energy carriers. The model also calculates three energy values:

- Energy performance indicator (EPC) for houses;
- Energy Index (EI)
- Energy performance on location (EPL)

The model is for use by energy consultants, while the results/outputs are for the decision makers like municipals and project developers. Additional to the development of the OEI calculation model also the decision making process was supported and/or subsidised.

Over the years the OEI program assisted a number of municipalities in their decision making process for urban development and the related energy infrastructure.

Methods

None

Results

No specific results. The program is targeted to an early phase of the decision making process and so no direct relation with energy savings are estimated.

Ex-post evaluation	1995	2000		
CO ₂ (kt)				
Energy (TJ)				
Ex-ante evaluation	1995	2000	2010	2020
CO ₂ (kt)				
Energy (TJ)				

Measure Impact Level

low

medium

high

Interaction of measures

Mitigating interactions with:

- HOU-NLD02: Sustainable building programme
- HOU-NLD03: Energy Performance Standard
- HOU-NLD09: Building decree 1991 (completed)
- HOU-NLC07: The Building Decree (2002, 2012 onwards)

Reinforcing interactions:

- HOU-NLD25: Convenant energy savings in newly produced buildings (Spring Agreement)

Historical data

References

RVO.nl, OEI (Optimale Energie Infrastructuur)

<http://www.rvo.nl/sites/default/files/bijlagen/OEI%20-%20achtergrondinformatie.pdf>

Agentschap NL, OEI 3.0 Een goed begin is het halve werk

<http://www.rvo.nl/sites/default/files/bijlagen/OEI%20-%20factsheet%20mei'11.pdf>

Agentschap NL, OEI 3.0 Gebruikershandleiding, September 2010

http://www.rvo.nl/sites/default/files/bijlagen/OEI%20-%20gebruikershandleiding_0.pdf

Agentschap NL, Centraal stellen van duurzame energieambities in het gebiedsontwikkelingsproces, Juni 2010

<http://www.rvo.nl/sites/default/files/bijlagen/Centraal%20stellen%20van%20duurzame%20e-ambities%20in%20het%20gebiedsontwikkelingsproces.pdf>