



CSO Energy Optimiser

Online tool for energy savings package

Background & context of Energy Optimiser

- The Energy Optimiser is a software tool to generate optimized energy savings packages as a communication tool between CSO-representatives (and individual members/clients) and suppliers / contractors.
- As lifecycle management deals with more than energy, Energy Optimiser Tool can be integrated with a software module for Maintenance Planning as well as a module for Life Cycle Cost Calculation (dealing with maintenance costs, energy costs, capital costs and running costs).

Energy Optimiser characteristics

Objective is

- To optimize energy consumption within financial boundaries

Stakeholders are

- Suppliers / contractors, CSO-representatives

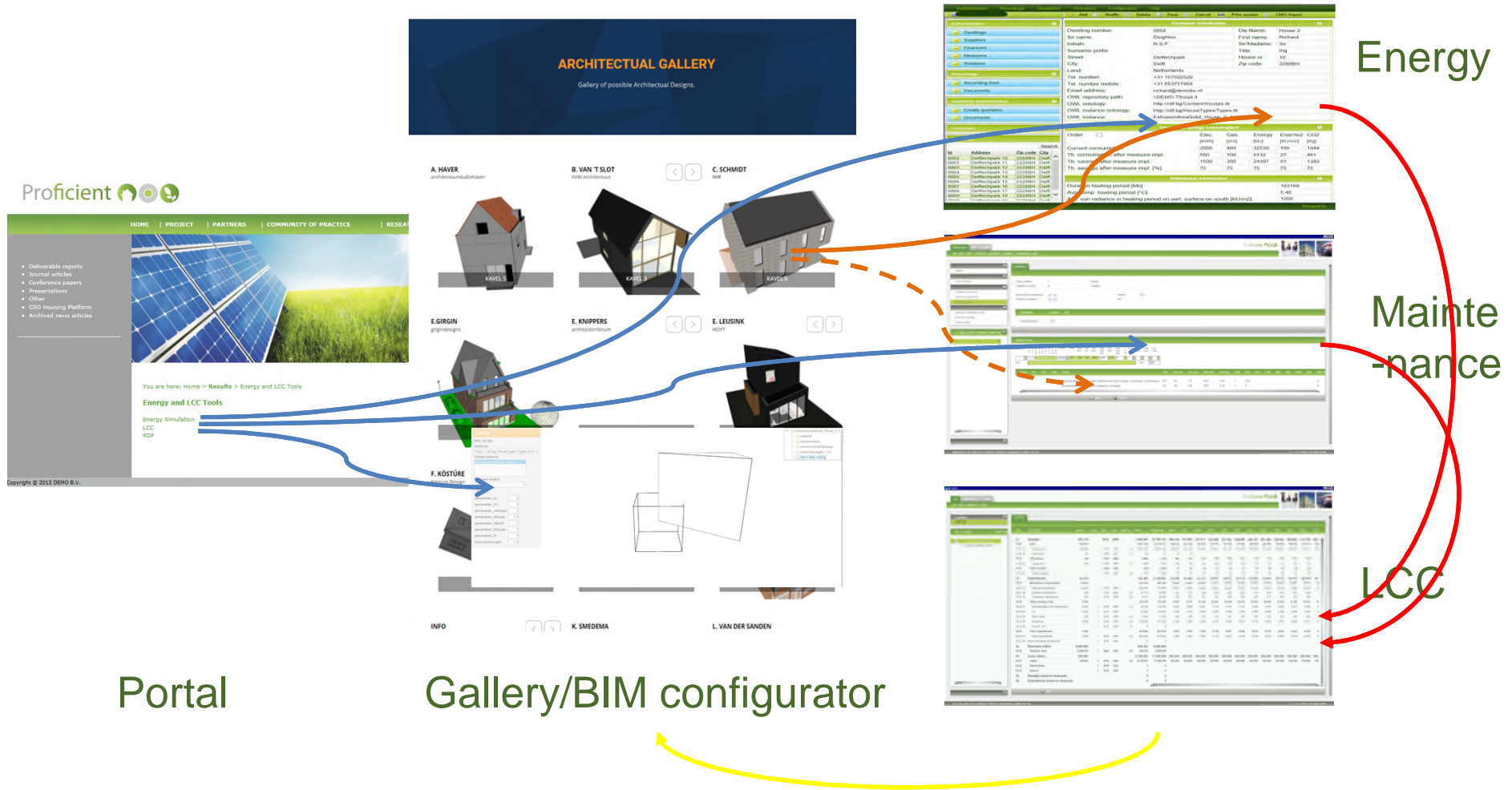
E-Marketplace to

- Bring together demand and supply

Calculation of

- Base case (energy and €)
- Variants
- Optimal set in given context
- Investment costs and energy cost savings

Framework software tools



ARCHITECTURAL GALLERY
 Gallery of possible Architectural Designs.

Order	Elec.	Gas	Energy	Energy2	CO2
0000	2000	400	2020	154	1144
0001	100	100	1132	27	441
0002	1500	300	2438	41	1363
0003	75	75	75	75	75

Order	Year	Energy	CO2
0000	2000	2020	154
0001	100	1132	27
0002	1500	2438	41
0003	75	75	75

Order	Year	Energy	CO2
0000	2000	2020	154
0001	100	1132	27
0002	1500	2438	41
0003	75	75	75

Energy Optimiser

Integration with BIM-converter and configurator



Administration Surveys Quotations Overviews Configuration Links

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Administration

- Dwellings
- Suppliers
- Financing
- Measures
- Solutions

Surveys

- Survey
- Documents

Quotation administration

- Create quotation
- Documents

Overviews

Dwellings

Search

Id	Address	Zip code	City
0002	RDF Delftech 11	2288BH	Delft
0001	RDF Delftech 10	2228BH	Delft
0003	RDF Delftech 12	2228BH	Delft
0004	Hallen 1	1053WC	Amsterdam
0005	Hallen 2	1053WC	Amsterdam
0006	Hallen 3	1053WC	Amsterdam
0007	Hauptstrasse 1		Cologne
0008	Hauptstrasse 2		Cologne
0009	Hauptstrasse 3		Cologne

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Energy optimizer

Powered by DEMO

Energy Optimiser goal

The energy performance Optimiser/simulator is used to select the optimal improvement **measures** to realize maximum energy savings given a certain improvement budget, or alternatively, advices on the cheapest solution to improve an existing house from energy level X (i.e. F) to energy level Y (i.e. A).

As the suppliers and contractors have the possibility/responsibility to continuously keep their information up to date, the tool functions as limited **e-marketplace** with invited/selected participants.

Energy Optimiser functionalities 1

Initial setup by / for service provider

- Information about suppliers
- Information about financing companies / banks
- Possibly additional measures above the already included measures (interpretation for calculation is needed)
- Information about all the solutions (provided by the suppliers)
- Energy price forecast

Energy Optimiser functionalities 2

Use by service provider per dwelling

- Administration of basic data of dwellings and customers
- Survey
- Calculation energy consumption as is, is automatically done
- Make variants of the base case
- Run Optimiser
 - Choose potential measures
 - Offering a quote

Try out yourself at

http://demo.demobv.nl/RE_EnergyPerfSimulator/

Send an email to info@demobv.nl to obtain a login and a password

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Log on

Username:

Password:

Remember password

[Request login](#)



Colophon

PowerPoint:
Issue Date:
Main author:
Author:
Version:

Energy Optimiser
1-8-2016
André van Delft
Ton Damen
1.0



The Proficient project is co-financed by the European Commission under the seventh research framework programme with contract No.: 312219. The information in this publication does not necessarily represent the view of the European Commission.

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