

Energy Management Centre

...making Energy Management easy

Findings from Audit Report

Dashboard
Monitoring
Tasks
Energy team

Actions for "Steam System"

Steam System

> Economizer in Steam System

Static Pay-Back time (years) : 2.0 Internal Rate of Return (%) : 41.0 Required Investment (EUR) : 600.0

Assigned 100%

Implement! ☐

> Insulation of Boiler in Steam System

Static Pay-Back time (years) : 17.0 Internal Rate of Return (%) : 40.0 Required Investment (EUR) : 1000.0

Implement! ☐

Upcoming Tasks

Find Supplier

- Action: Economizer
- In 13 Days
- Assigned
- Responsible: Ricardo

Find optimal time for installation

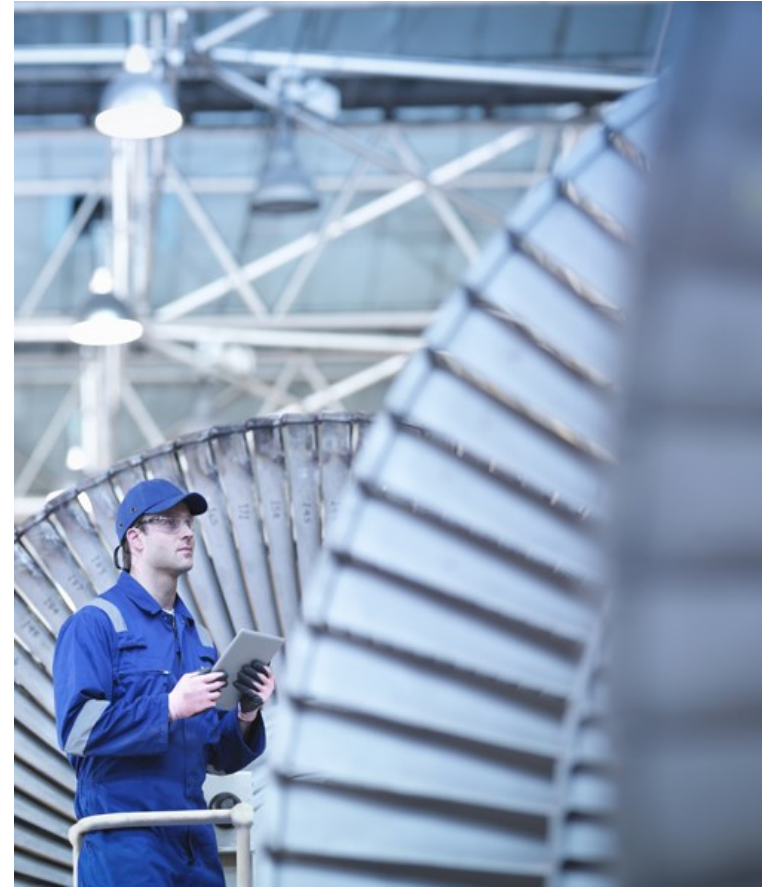
- Action: Economizer
- In 20 Days
- Assigned
- Responsible:

Georg Ratjen – 13 Sep 2016 – Steam-Up – adelphi

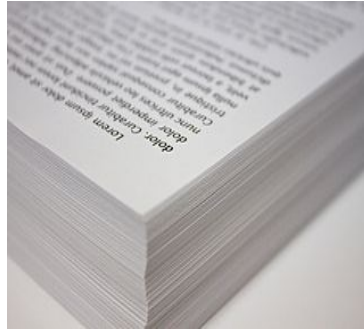
www.energy-management-centre.eu

Energy Management Centre

1. What is it good for?
2. How does it look like?
3. Who can participate?



Most Energy Audit Reports offer:



- Detailed technical descriptions of facilities and Energy Saving Potentials
- Limited Information on profitability concentrating purely on Energy Cost
- A static reporting format (usually a PDF document with many pages)

Energy Managers need to:



- Extract relevant information to develop brief “Action Plans” on what has to be done
- Take all benefits of an investment into account to convince Top Management
- Plan responsibilities and deadlines for realisation and make quick adjustments

EnMC in Steam-UP provides:

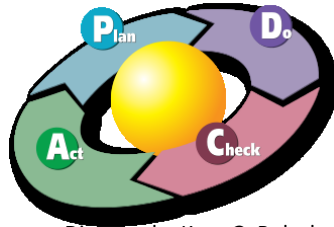


Diagram by Karn G. Bulsuk
(<http://www.bulsuk.com>)

- Ready prepared Action Plans on 2 Pages directly applicable for Energy Management
- Cash-Flow Charts and Indicators on Energy **and** Non-Energy Benefits
- An interactive Gantt-Chart for allocating and tracking responsibilities and deadlines

Energy Managers therefore:




- Save time as they can quickly select and edit the measures they want to implement
- Have less effort to present the Business case to Top Management
- Can easily document and adjust responsibilities and deadlines with a few clicks

Von: Ms. Auditor
An: Mr. Energy Manager

Energy Manager receives a Link to EnMC from the Auditor

Cc:
Betreff: Audit Report / Login to Energy Management Centre

 Audit Report.pdf (60 KB)



Dear Mr. Energy Manager

In the appendix you find the complete report on the Steam-UP Audit from 16th July 2016. We want to make realisation of measures as easy as possible. Therefore we provide you with the Energy Management Centre (EnMC). It is an easy hands-on management software.

The EnMC offers e. g. an overview over all recommended measures with key financial figures (e. g. pay-off, investment costs), an interactive realization-planner (Gantt-Chart) for planning deadlines and responsibilities, a reminder for upcoming tasks an Energy Network, where we can communicate directly and share documents. You can also share experience with the other participating companies.

It is important that your privacy is protected. Nobody shall except you and me be able to allocate the data to your company. Therefor we do not use your real name, but an Alias. As discussed we used the following Alias.

Alias: **StName**

When you click on the following link, you can create your account and set a password:

<https://www.energy-management-centre.eu/go/confirm/XpdpoFRmt3cVdZwm2IaV12nUKenuXEA3>

Best Regards
Ms. Auditor

Energy Manager gets a brief overview over all measures

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Upcoming Tasks

Find Supplier



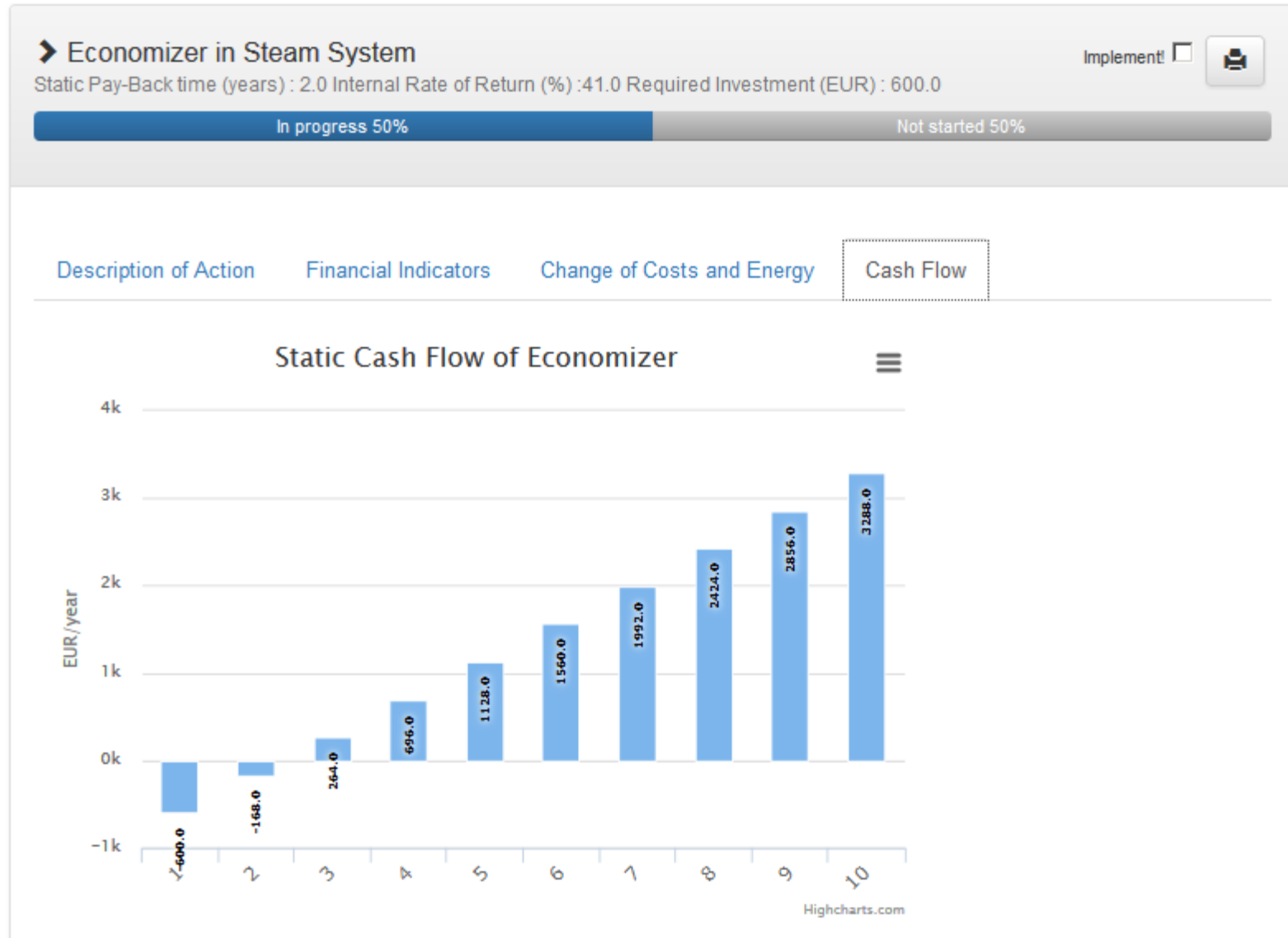
- Action: Economizer
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Find optimal time for installation



- Action: Economizer
- In 20 Days
- Assigned
- Responsible:

Energy Manager can get more detailed view with one click

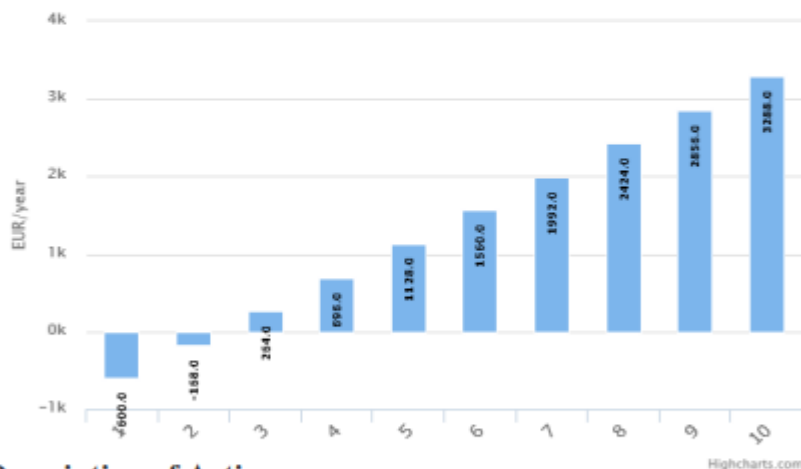


Energy Manager can export Action Plans (as a 2-pager)

Economizer

Financial Indicators (a)	Value (a)	Financial Indicators (b)	Value (b)
Required Investment (EUR)	600.0	Static Pay-Back time (years)	2.0
Internal Rate of Return (%)	41.0	Life Cycle Costs	
Dynamic Pay-Back time (years)		Net Present Value (EUR)	
Assumed Discount Rate (%)			

Static Cash Flow of



Highcharts.com

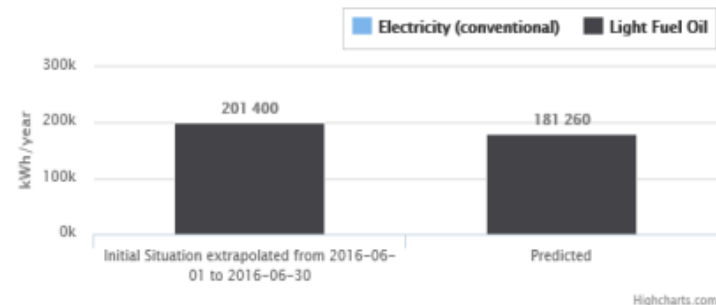
Description of Action

There is no Economizer installed. This means unnecessary heat losses

Signature for Implementation

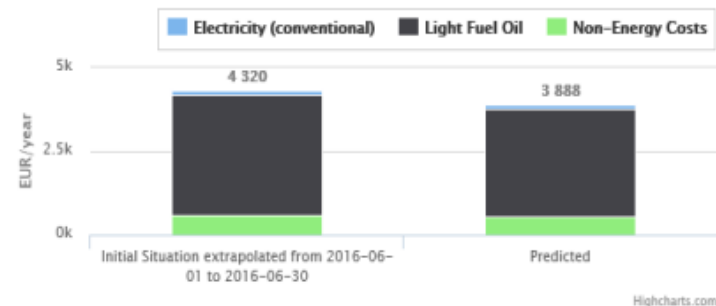
Be aware that effectiveness of this action may be influenced by other actions taken.

Predicted Change of Energy Usage



Highcharts.com

Predicted Change of Cost



Highcharts.com

Comments (e. g. Change of Risks)

Be aware that effectiveness of this action may be influenced by other actions taken.

Energy Manager can quickly create time plans with responsibilities

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Trash

Print

Actions for "Steam System"

Steam System

Realization Management (Gantt-Chart)

Start Year 2016 Last Year 2018

All Tasks Half Year One Year Two Years

April July October 2017 April July October 2018

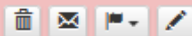
Economizer

18. July 2016



Find Supplier

11.07.2016 Ricardo



ASSIGNED



Find Supplier

Start: 29. June 2016
End: 11. July 2016

Find optimal time for installation

18.07.2016 Not assigned



ASSIGNED

Insulation of Boiler

01. February 2000



Jun 26 Jul 03 Jul 10 Jul 17 Jul 24 Jul 31 Aug 07 Aug 14 Aug 21

Jun 26 Jul 03 Jul 10 Jul 17 Jul 24 Jul 31 Aug 07 Aug 14 Aug 21

Energy Manager can track achieved Savings

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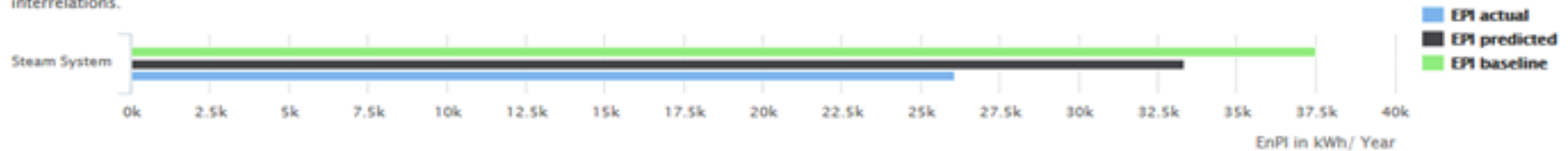
Print

Evaluation for "Steam System"

Steam System

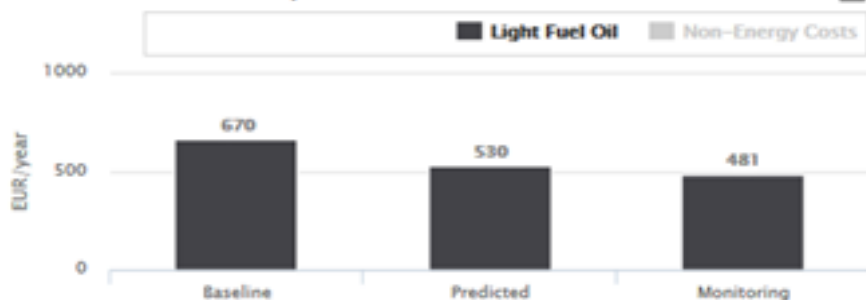
Change of the Energy Performance Indicator (EnPI)

Please keep in mind that possible Interrelations between the Impacts of the different ACTIONS are not being considered in the EnMC. Check the comprehensive Audit Report for possible interrelations.

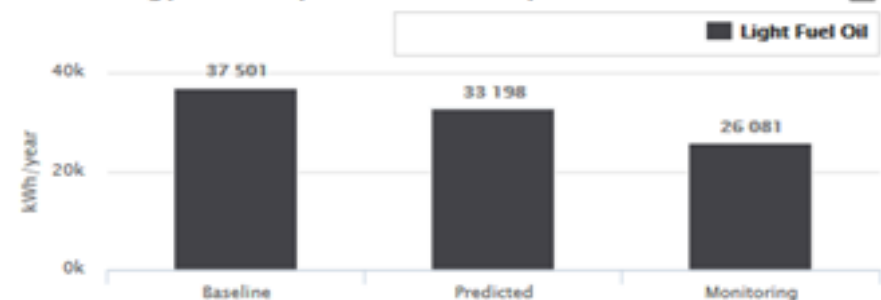


Edit

Total cost of Steam System



Total energy consumption of Steam System



Energy Manager can generate Energy Management Reports

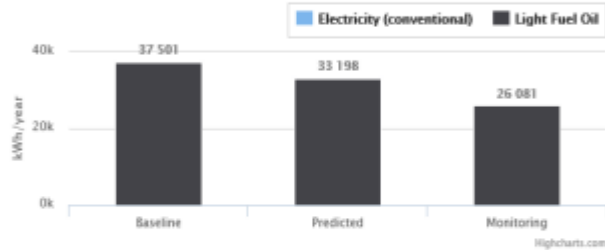
1 Energy Management Report : Steam System

Change of the Energy Performance Indicator (EnPI)

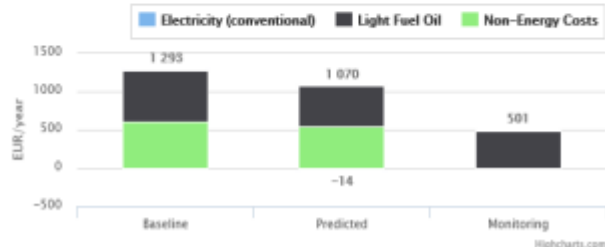
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Total energy consumption of Steam System



Total cost of Steam System

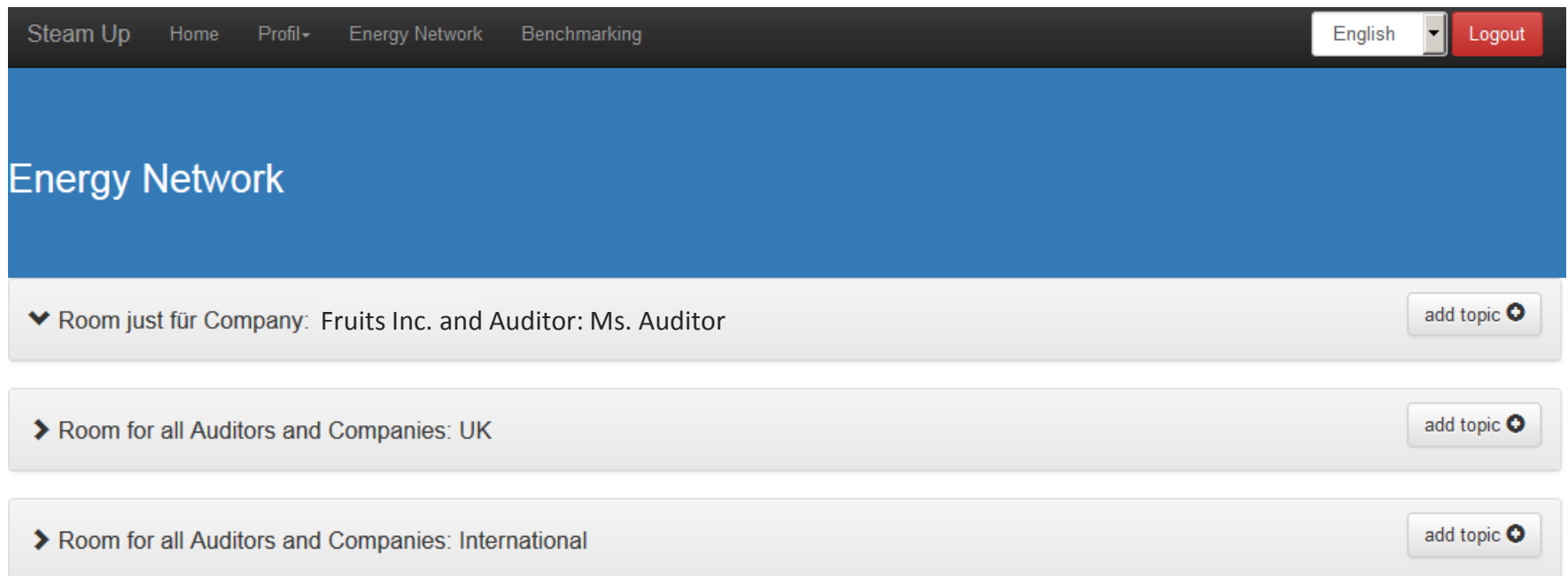


Structure of the Report

- Information on the Company
- Information on the Systems in the Company (e. g. Steam production)
- Actions for optimisation of the Systems (e. g. Economizer, new Boiler)
- Status of the Tasks to organise the Actions (e. g. select supplier, prepare installation)

Energy Manager can access a Help-Desk and exchange experience

- Directly contact the Auditor, ask questions, share documents
- Share experience with other Energy Managers in „public“ rooms

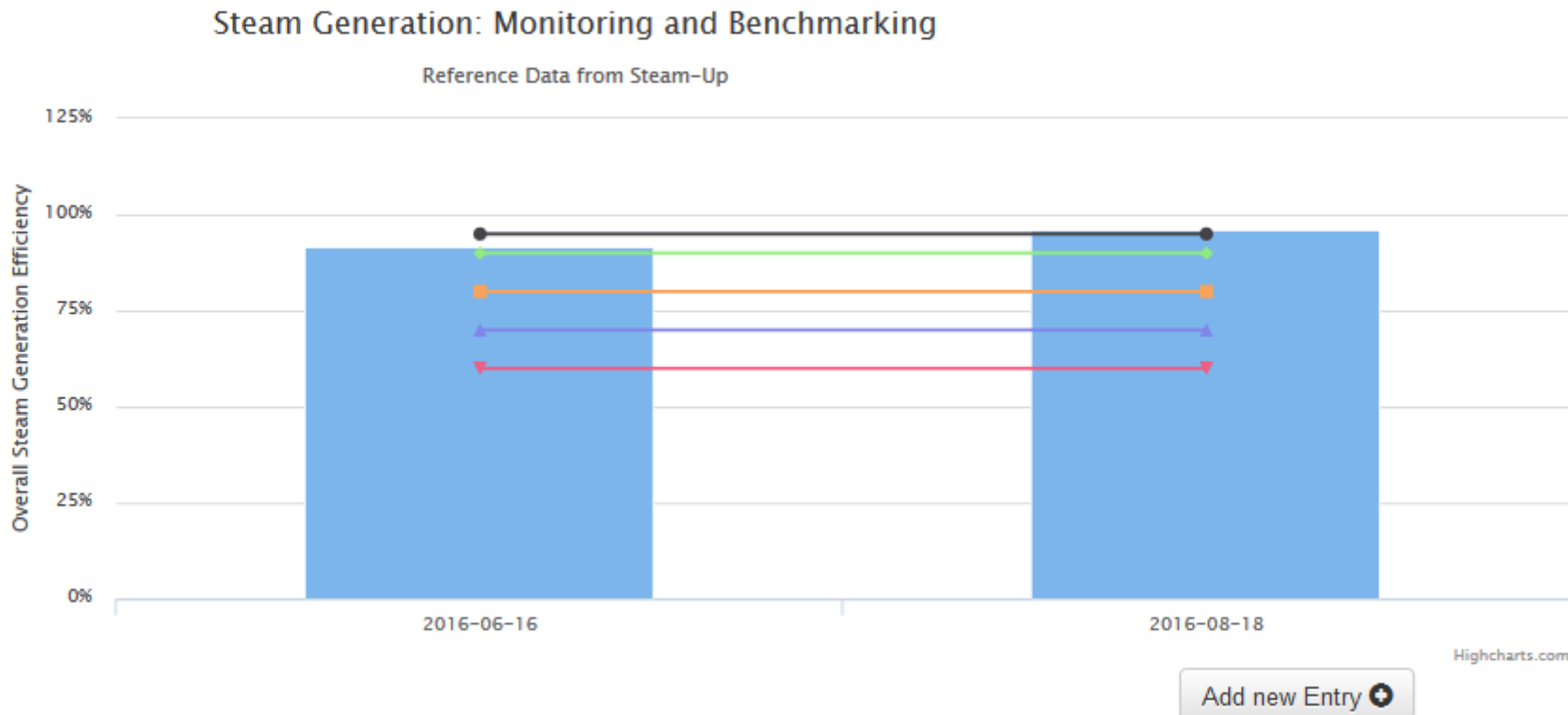


The screenshot shows the 'Energy Network' section of the Steam Up website. The top navigation bar includes links for 'Steam Up', 'Home', 'Profil', 'Energy Network', and 'Benchmarking'. On the right, there is a language dropdown set to 'English' and a red 'Logout' button. The main content area has a blue header with the text 'Energy Network'. Below this, there are three room listings, each with a dropdown arrow, a description, and an 'add topic' button with a plus icon.

Room Description	Action
▼ Room just für Company: Fruits Inc. and Auditor: Ms. Auditor	add topic +
➤ Room for all Auditors and Companies: UK	add topic +
➤ Room for all Auditors and Companies: International	add topic +

Energy Manager can do Steam Benchmarking

- Quick check on Efficiency of Steam Boiler
- Steam Monitoring by adding several Datasets



Who can use the EnMC?



All Energy Managers and their external Auditors who plan an Energy Audit with Focus on Steam

What does it cost?

- Use of EnMC and Steam-Up Materials is free of charge
- Extra effort for Energy Auditors to report findings in EnMC is covered by Steam-Up (2500 € in Germany)

How can I participate?

- Fill out the Letter of Interest, you get it on www.steam-up.eu/de, or write a short E-Mail to Juliane Schröer (schroeer@adelphi.de)
- 10 Audits are available for Germany. First come, first served!
- Other EU countries: check www.steam-up.eu

Co-funded by the Horizon 2020 Framework Programme of the European Union

Energy Management Centre:

Der Energy Management Centre (EnMC) ist eine Web-Anwendung, die Unternehmen beim Planen, Umsetzen und der Erfolgskontrolle von Energieeffizienz Maßnahmen unterstützt.

Eingeführungen aus Energie-Audits gehen im Betriebsalltag oft unter, weil die Planung und Umsetzung der Maßnahmen viel Zeit erfordert. Mit dem EnMC kann Ihr Energieberater seine Ergebnisse digital berichten – und Sie können die Ergebnisse direkt für das betriebliche Energiemanagement weiterverwenden. Mit dem EnMC sparen Sie wertvolle Zeit bei der Planung und behalten den Stand der Umsetzung im Blick.

Der EnMC wurde für das Projekt „Steam-Up“ der Europäischen Kommission entwickelt. In „Steam-Up“ werden Audits zu Dampfsystemen durchgeführt, die sich mit Energieaudits nach DIN 16247 sehr gut kombinieren lassen. Nähere Informationen erhalten Sie auf der Projektwebseite: <http://steam-up.eu/>

Bis zu 10 kostenlose Georg Ratjen Tel. 030 100 000 000

Mit dem EnMC:

- Empfehlung schneller Entscheidung
- Übersicht über alle Maßnahmen
- Guide für die Umsetzung
- Durch Planen

Maßnahmenorganisation:

- Kontakt mit dem Verantwortlichen
- Schnelle Umsetzung
- Aktuelle Umsetzung

Einsparung:

- Abgleich der Energie

Hilfe bei:

- Direkte Hilfe
- Erfahrung

Senden Sie diese unverbindliche Interessensbekundung unterschrieben per E-Mail an: ratjen@adelphi.de oder per Fax an: +49 (0)30 89 000 68 10

Unverbindliche Interessensbekundung

Wir haben Interesse im Rahmen eines Energieaudits am Projekt „Steam-Up“ teilzunehmen.

Reservieren Sie für unser Unternehmen einen Platz:

Name des Unternehmens:	
Schätzung Energieverbrauch/Jahr:	
Name Ansprechpartner:	
E-Mail Ansprechpartner:	

Für das Audit ist folgender Energieberater vorgesehen:
(sofern noch kein Energieberater bekannt ist, dieses Feld bitte freilassen)

Name der Beraterfirma:	
E-Mail des Beraters:	

Diese Interessensbekundung ist unverbindlich und kann jederzeit widerrufen werden.

Ort, Datum

Unterschrift

Flyer & Template for Letter of Interest

Thanks for your attention!



Georg Ratjen

Senior Project Manager at adelphi

Work Package Leader for WP5-EnMC in Steam-Up

E-Mail: ratjen@adelphi.de

Tel.: +49 (0)30 89 00068 62

Fax: +49 (0)30 89 00068 10

adelphi | Alt-Moabit 91 | 10559 Berlin | www.adelphi.de

Development Team: We may add new features on a voluntary basis

Specification and Management	Back-End and Automated Tests	Front-End and Functional Control
Georg Ratjen ratjen@accua.de	Yusuf Canbay canbay@accua.de	Silas Schürmann Schuermann@accua.de

accua is the free network for developers of green efficiency software in Berlin-Neukölln (www.accua.de)