

# Energy Management Centre

...making Energy Management easy

## Findings from Audit Report

Dashboard
Monitoring
Tasks
Energy team

### Actions for "Steam System"

➤ Economizer in Steam System
Implement!  

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

Assigned 100%

➤ Insulation of Boiler in Steam System
Implement!  

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

#### Upcoming Tasks

**Find Supplier**  

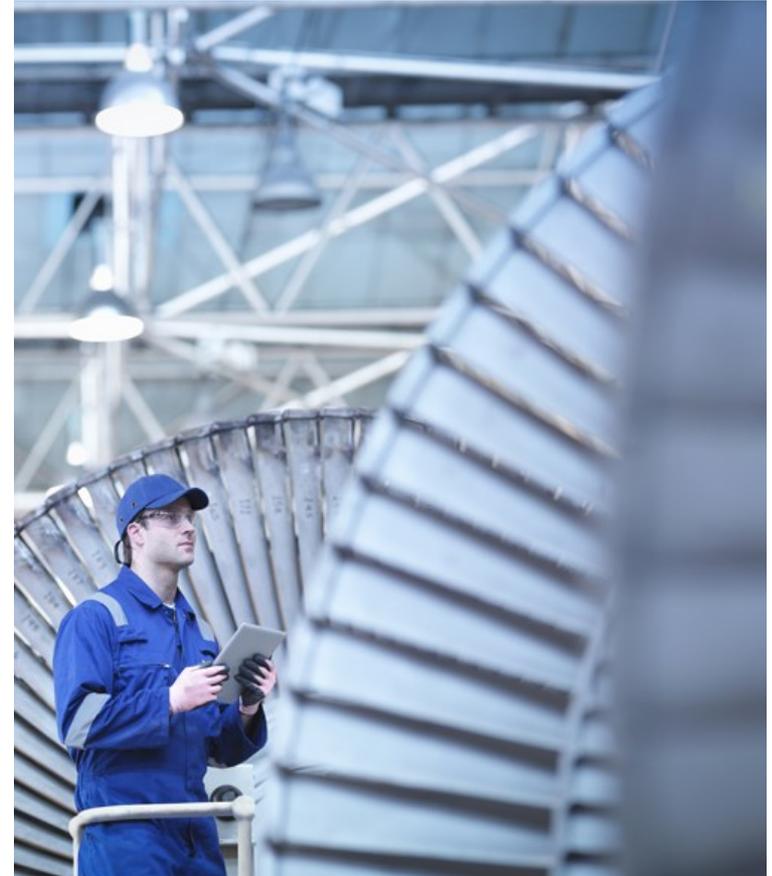
- Action: Economizer
- In 13 Days
- Assigned
- Responsible: Ricardo

**Find optimal time for installation**  

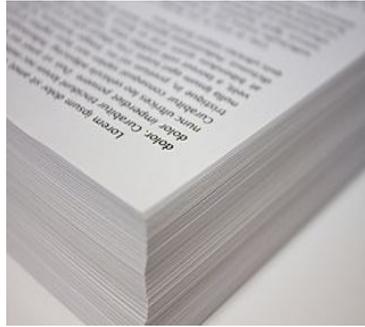
- Action: Economizer
- In 20 Days
- Assigned
- Responsible:

## 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:

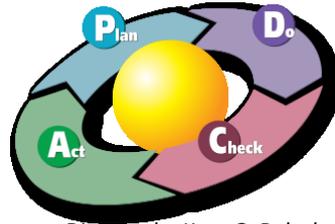


Diagram by Karn G. Bulsuk  
<http://www.bulsuk.com>

- 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 16<sup>th</sup> 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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Steam System

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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



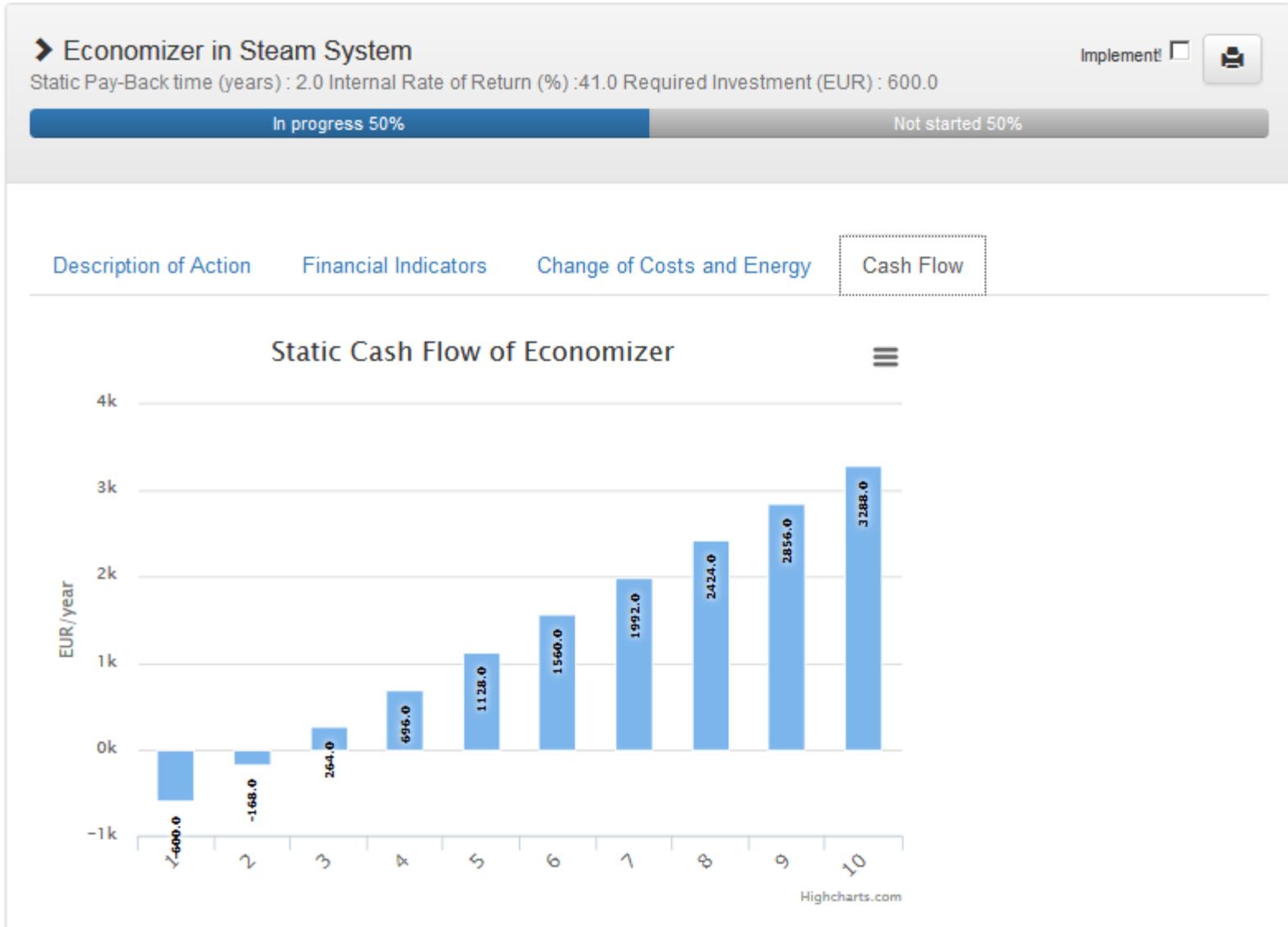
- Action: Economizer
- In 13 Days
- Assigned
- Responsible: Ricardo

#### Find optimal time for installation



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

# Energy Manager can get more detailed view with one click

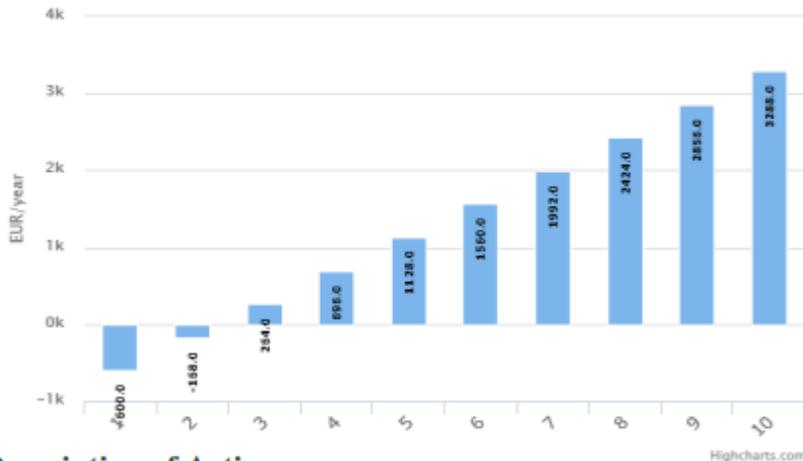


## Energy Manager can export Action Plans (as a 2-pager)

### 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



### Description of Action

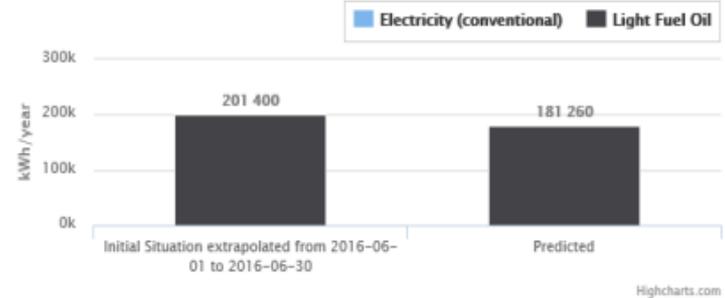
There is no Economizer installed. This means unnecessary heat losses

**Signature for Implementation**

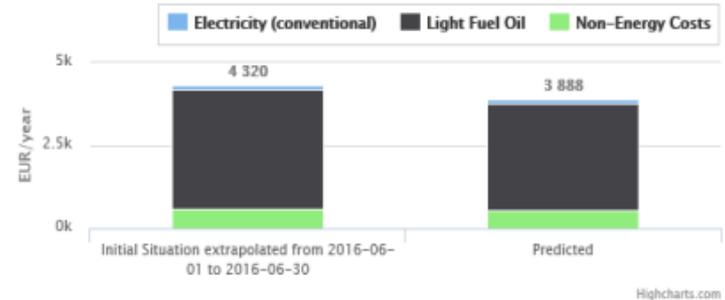
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Be aware that effectiveness of this action may be influenced by other actions taken.

Predicted Change of Energy Usage



Predicted Change of Cost



### 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

## Findings from Audit Report

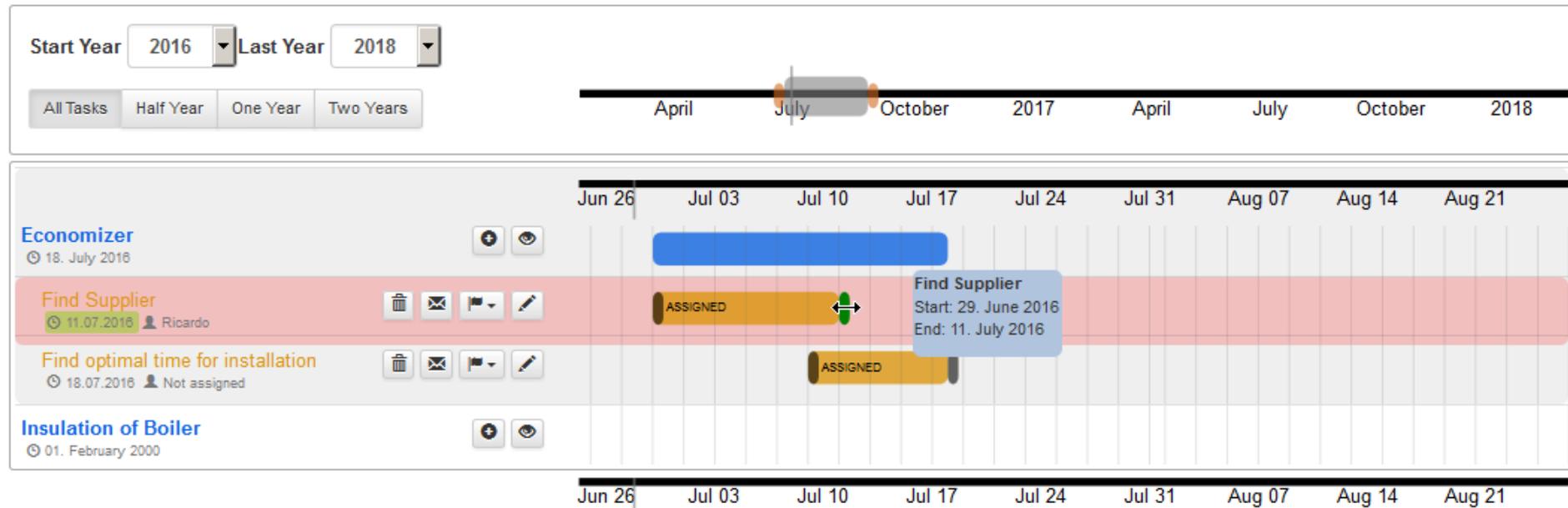
Dashboard    Monitoring    **Tasks**    Energy team

Trash    Print

Actions for "Steam System"

Steam System

## Realization Management (Gantt-Chart)



# Energy Manager can track achieved Savings

## Findings from Audit Report

Dashboard

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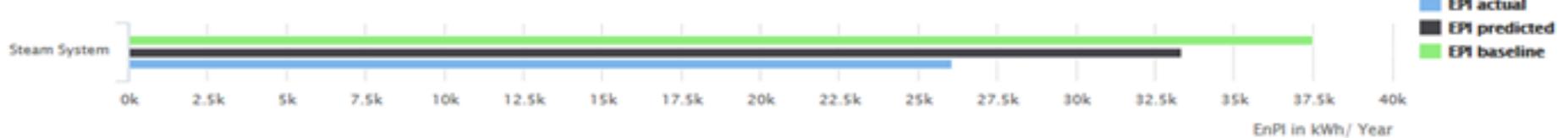
Print

### Evaluation for "Steam System"

Steam System

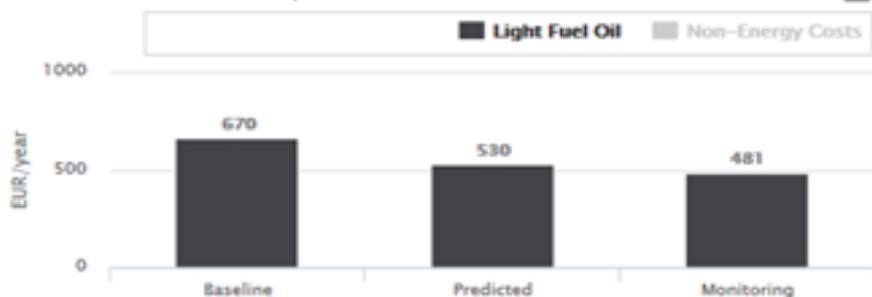
#### Change of the Energy Performance Indicator (EnPI)

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

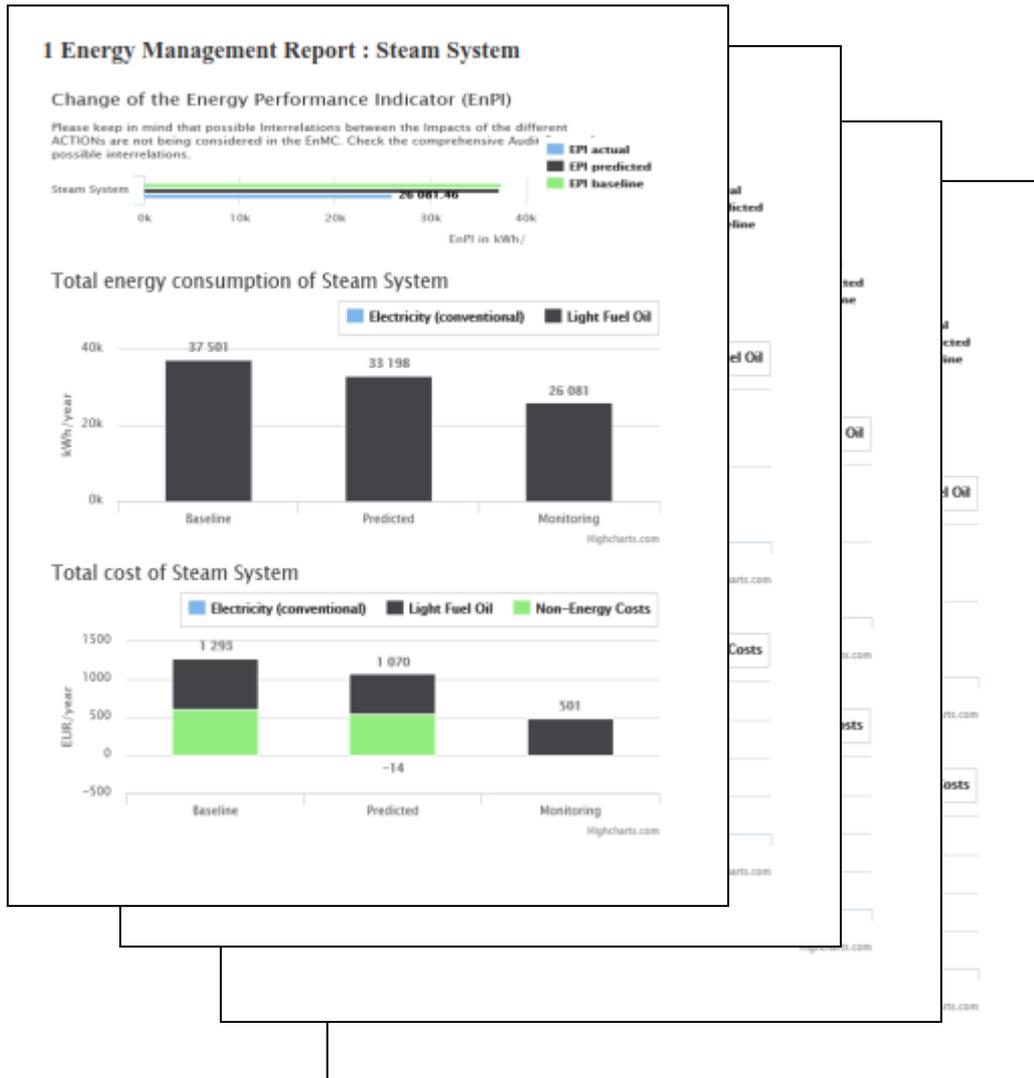
#### Total cost of Steam System



#### Total energy consumption of Steam System



# Energy Manager can generate Energy Management Reports

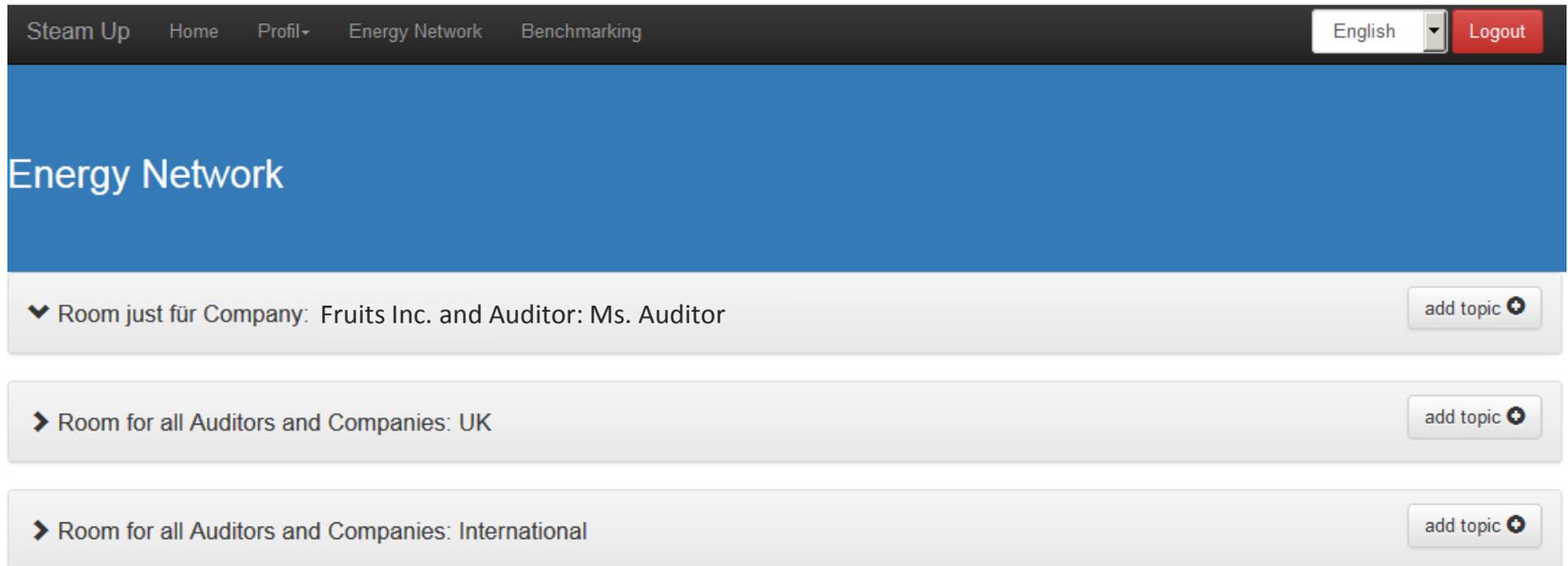


## Structure of the Report

- 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 navigation bar at the top includes '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 is titled 'Energy Network' and lists three discussion rooms, each with an 'add topic' button:

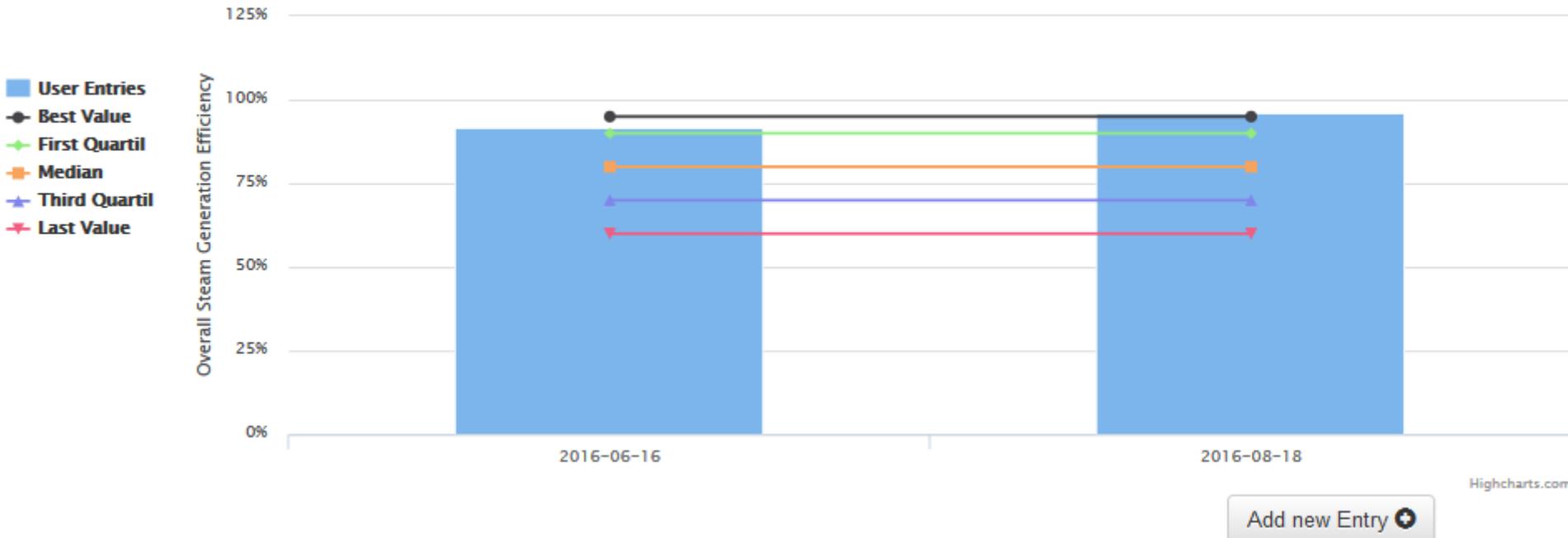
- ▼ Room just für Company: Fruits Inc. and Auditor: Ms. Auditor
- ▶ Room for all Auditors and Companies: UK
- ▶ Room for all Auditors and Companies: International

# Energy Manager can do Steam Benchmarking

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

Steam Generation: Monitoring and Benchmarking

Reference Data from Steam-Up



## 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](http://www.steam-up.eu/de), or write a short E-Mail to Juliane Schröer ([schroeer@adelphi.de](mailto:schroeer@adelphi.de))
- 10 Audits are available for Germany. First come, first served!
- Other EU countries: check [www.steam-up.eu](http://www.steam-up.eu)




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

Senden Sie diese unverbindliche Interessensbekundung unterschrieben per E-Mail an: [ratjen@adelphi.de](mailto: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!



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**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 <a href="mailto:ratjen@accua.de">ratjen@accua.de</a>	Yusuf Canbay <a href="mailto:canbay@accua.de">canbay@accua.de</a>	Silas Schürmann <a href="mailto:Schuermann@accua.de">Schuermann@accua.de</a>

*accua is the free network for developers of green efficiency software in Berlin-Neukölln ([www.accua.de](http://www.accua.de))*