SinaSave - Manual

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SinaSave Manual

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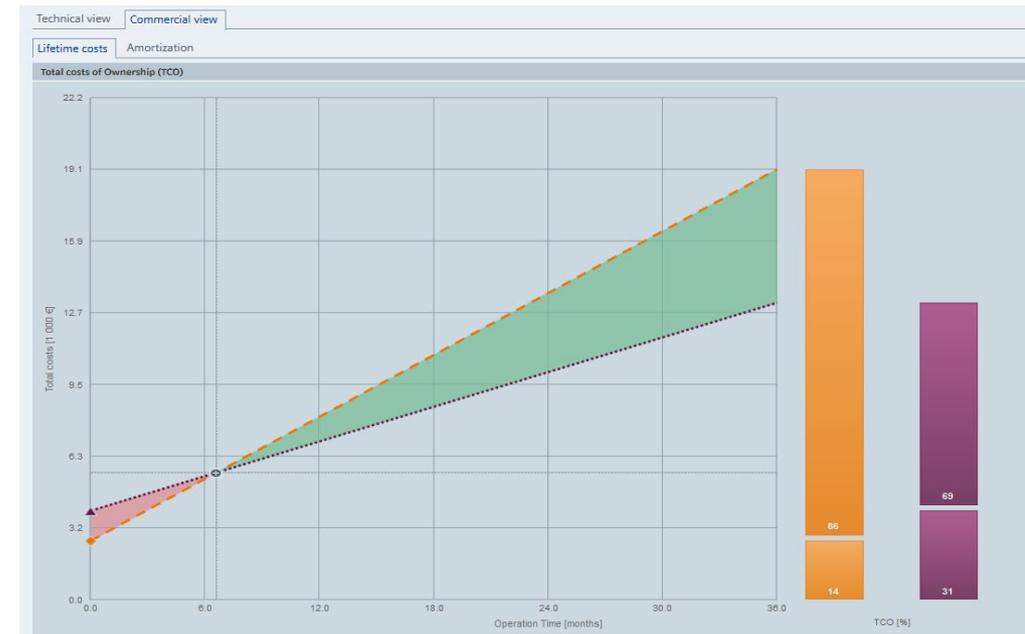
The SinaSave tool
Overview

SinaSave

- outputs **energy and cost saving potential** - as well as **amortization times** - for energy-efficient pumps/fan **IDS drive systems** and **energy-efficient motors** under customer-specific application conditions

Customer benefits

- SinaSave provides **decision-making support** when it comes to investing in energy-efficient technologies

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The SinaSave tool
Overview

SinaSave supports...

- **Languages**

EN, DE, FR, IT, ES, PT, ZH, RU

- **Currencies**

EUR, GBP, CHF, USD, INR, CNY, ZAR, BRL, MXN
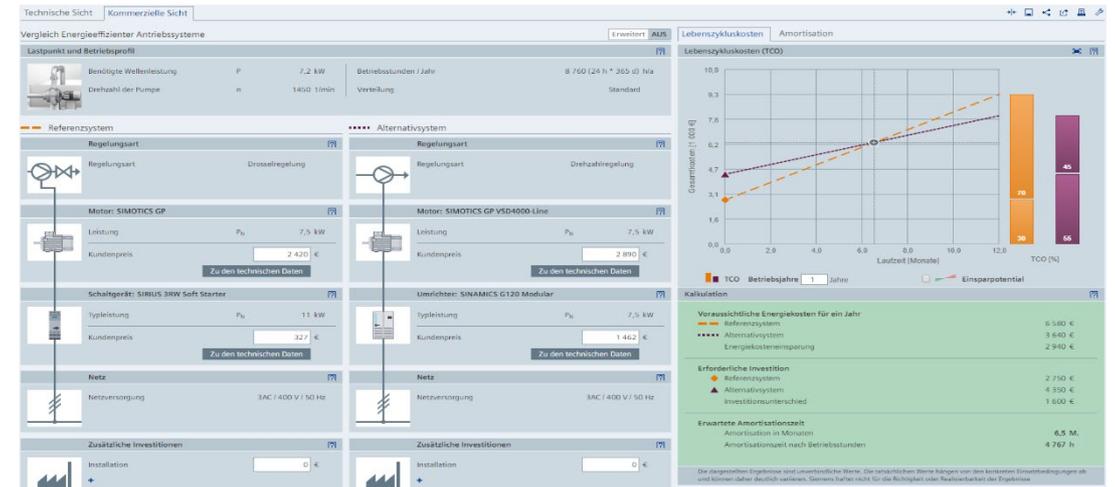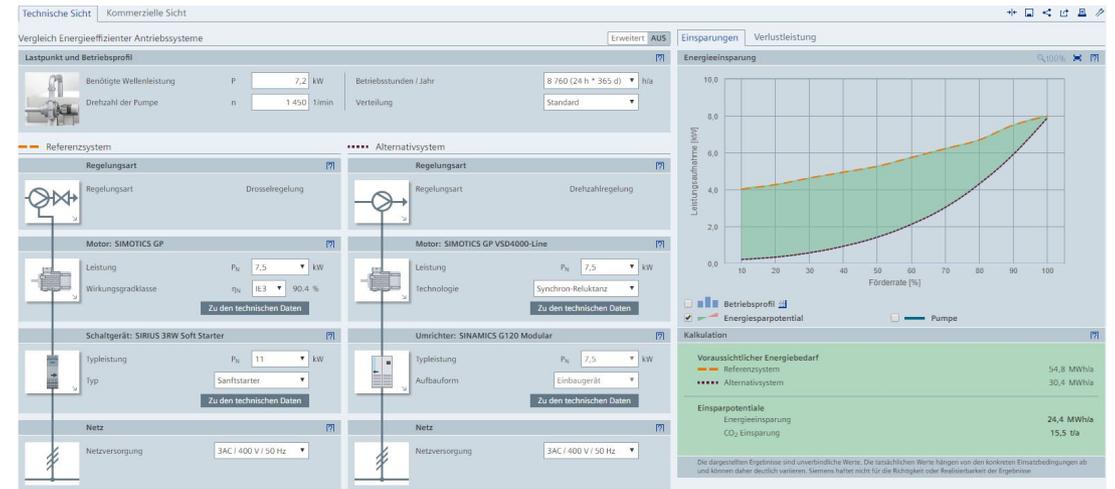
- **Supply systems**

Low voltage

- 400 V / 500 V / 690 V (3 AC / 50 Hz)
- 480 V (3 AC / 60 Hz)

Medium voltage and high voltage

- 3.3 kV / 6 kV / 10 kV (3 AC / 50Hz)

- **A comprehensive Siemens portfolio**

- SINAMICS, SIMOTICS and SIRIUS
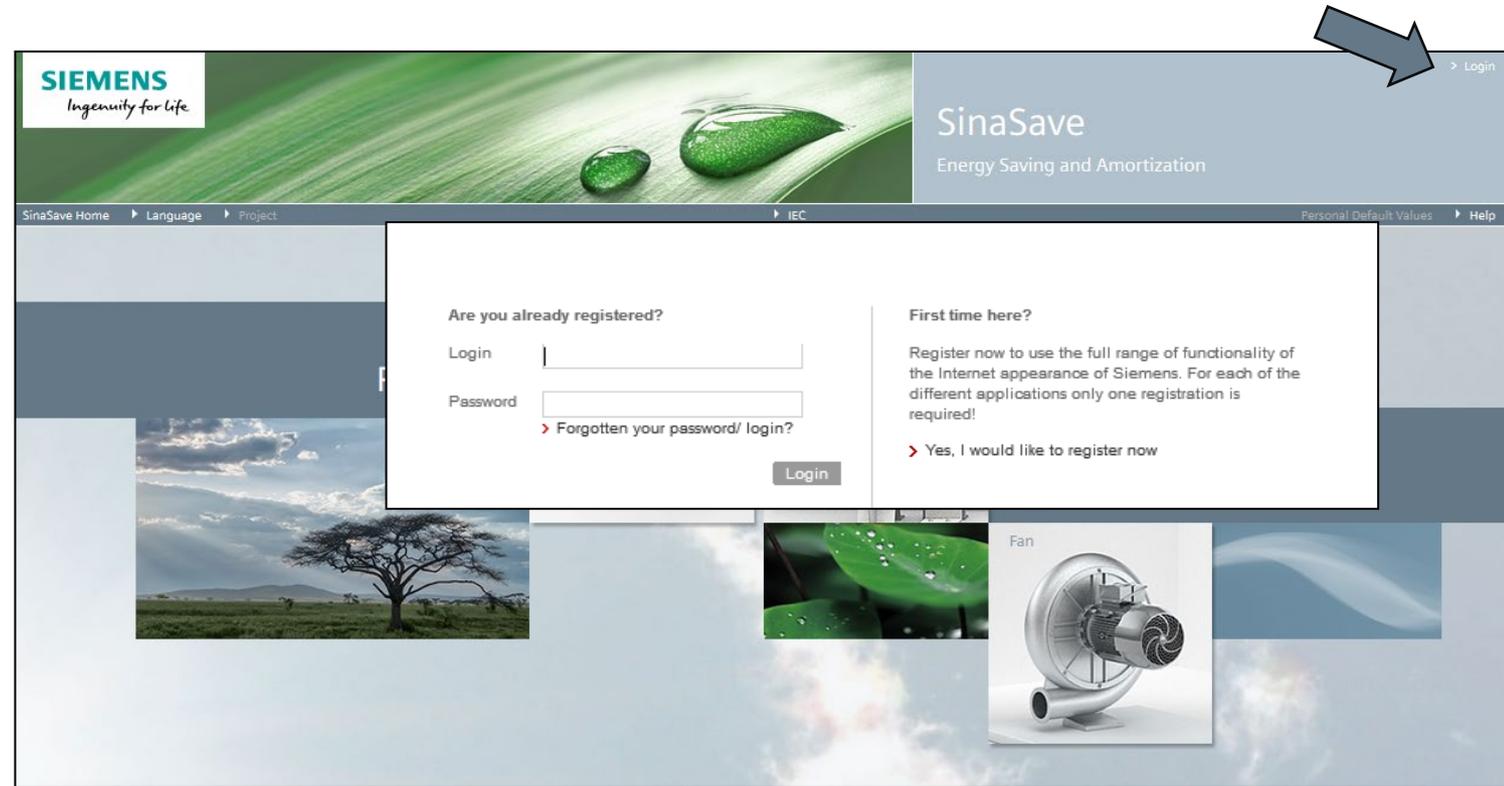- IEC: 0.55 kW – 5.5 MW
- NEMA: 1 hp – 400 hp

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The SinaSave tool
Login function

Login in SinaSave is optional, however, will afford the following additional functionalities:

- Storage and loading of comparisons and projects
- Local storage
- Exporting and sharing of results
- Usage of individual profiles and personal presettings

Utilization of SinaSave is generally free of charge

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Tool layout and structure
Basic structure

Reference and alternative system

Input area

Output area

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Tool layout and structure
Basic structure – Technical view

Graphical results

Numerical results

Technical data

Energy savings, power loss

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Tool layout and structure
Basic structure – Commercial view

Graphical results

Numerical results

Commercial data

Lifetime costs, amortization

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System comparison for pumps and fans "Technical view"

- The <u>load point</u> of the application is defined here via the **pump speed** and **power**. Furthermore, **pre-defined** <u>operation profiles</u> can be selected

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System comparison for pumps and fans "Technical view"

- The **Extended mode** provides additional selection parameters. This permits a more detailed definition of the application and the components

- Entry of additional **application data** allows an **automatic calculation** of the required shaft power

- As an alternative to the **predefined** operation profiles, this may also be configured individually by entering ten individual values

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System comparison for pumps and fans "Technical view"

- Clicking on the switch symbols allows the control mode of the system…

- …as **well as the types of individual components** (motor, converter, switchgear) to be selected

- Values of the components can then be adapted

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System comparison for pumps and fans "Technical view"

- Following individual entry of the values, a **graphic representation of the results** is displayed on the right-hand side

- The **numerical results** of the power consumption are displayed together with the energy and CO2 emission savings beneath the graphic

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System comparison for pumps and fans "Commercial view"

- By changing to the **commercial view**, it is possible to display and process the **economical data**, such as prices and discounts

- A reconfiguration of the components or systems is not possible here

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System comparison for pumps and fans "Commercial view"

- Analogous to the technical view, the commercial results of both systems, e.g. energy costs savings and amortization time are displayed on the right-hand side
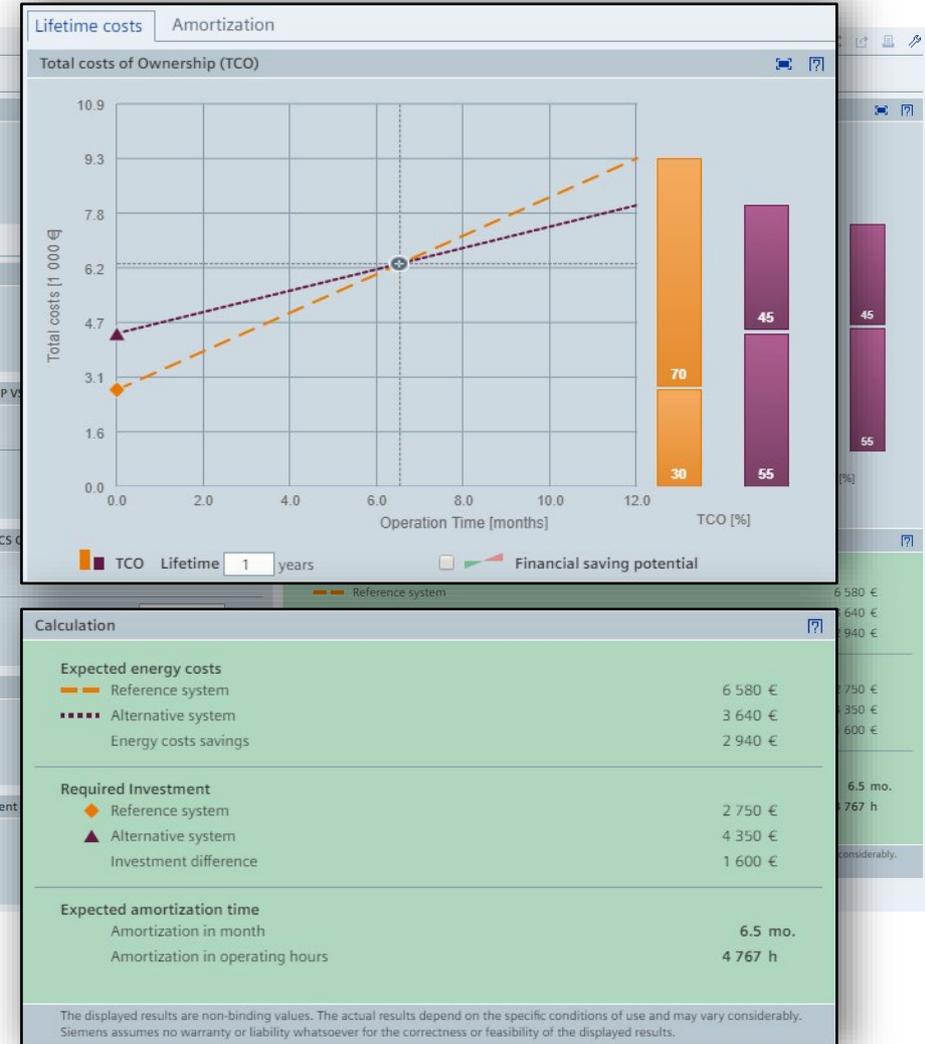
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Motor comparison "Technical view"

- Here you can adapt the motor and operation profile

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Motor comparison "Technical view"

- By clicking on the **motor symbol**, you can choose between a **Siemens motor** and a **third-party motor**

- Up to **three alternative motors** can be added with the "New Motor" button, which will then be compared with the **reference motor**

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Motor comparison "Technical view"

- In this example, a third-party motor has been added as a second alternative motor

- By clicking on the header, an entry field appears in which the **default name** of the third-party motors can be **changed**

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Motor comparison
"Technical view"

- Once the reference motors and alternative motors have been defined, the **graphic representation** is displayed on the right-hand side

- The **calculated values** are displayed beneath the graphs

- Activation (or deactivation) of the checkboxes allows the selected motors to be shown (or hidden) in the **graph**

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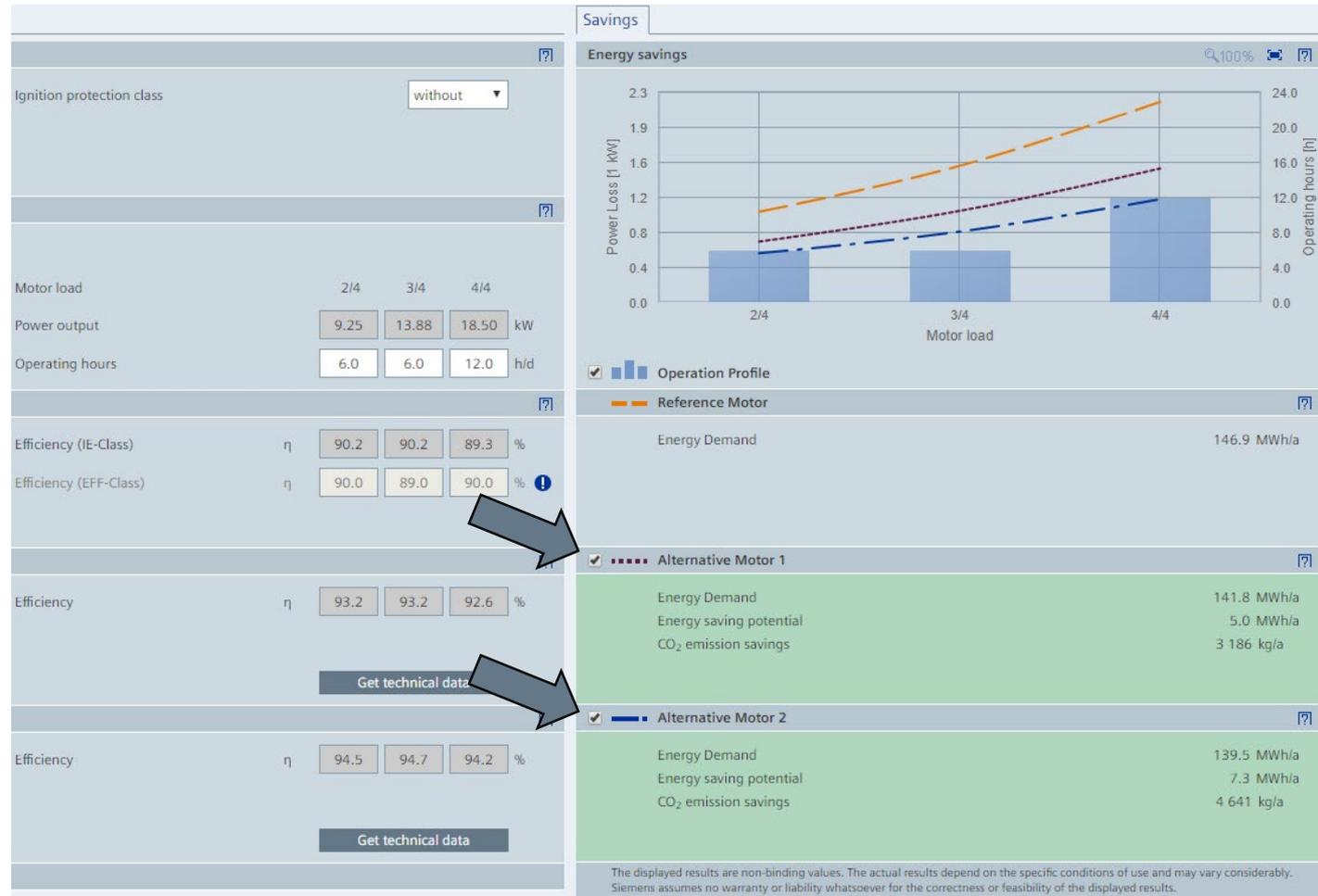
Motor comparison "Commercial view"

- **Commercial data** can be displayed and processed here using the "Commercial view" tab

- Once **prices** and **discounts** have been entered for the individual motors, these will then be taken into account for the evaluations

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Motor comparison
"Commercial view"

- The **graphic** as well as the **numerical results** appear analogously on the right-hand side, relative to the selected alternative motor(s)

- Switching between the commercial and technical view in **full screen mode** facilitates a much clearer comparison and presentation of the results

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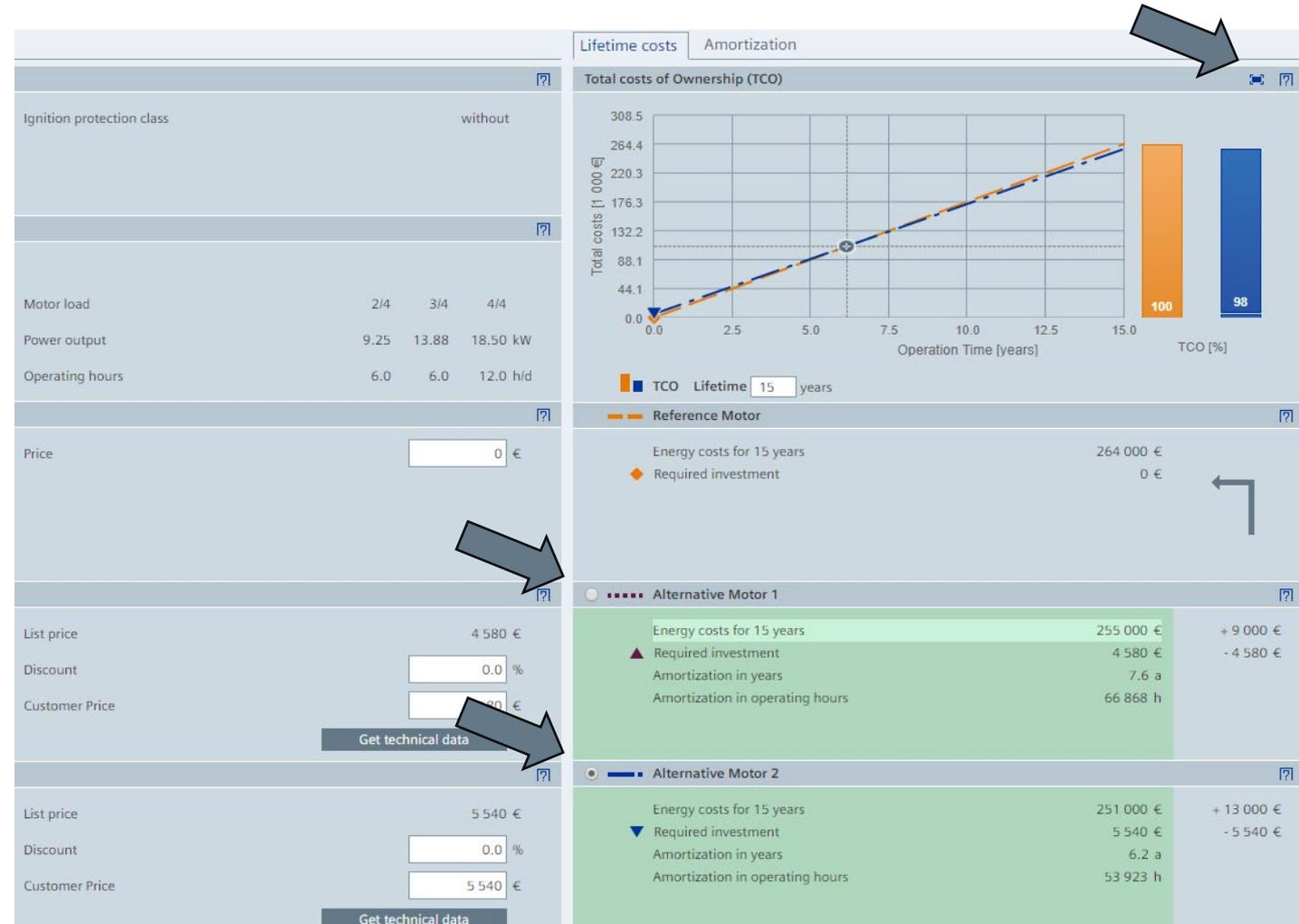
1. The SinaSave Tool

2. Tool layout and structure

3. System comparison for pumps and fans

4. Motor Comparison

5. **Projects / Saving / Loading**

6. Sharing and exporting results

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Projects / Saving / Loading

- **Login is necessary** to access the following SinaSave functions. A login function is provided in the upper, right-hand section of the screen

- Login can be performed at any time (even after a comparison has been entered), without the risk of losing any information.

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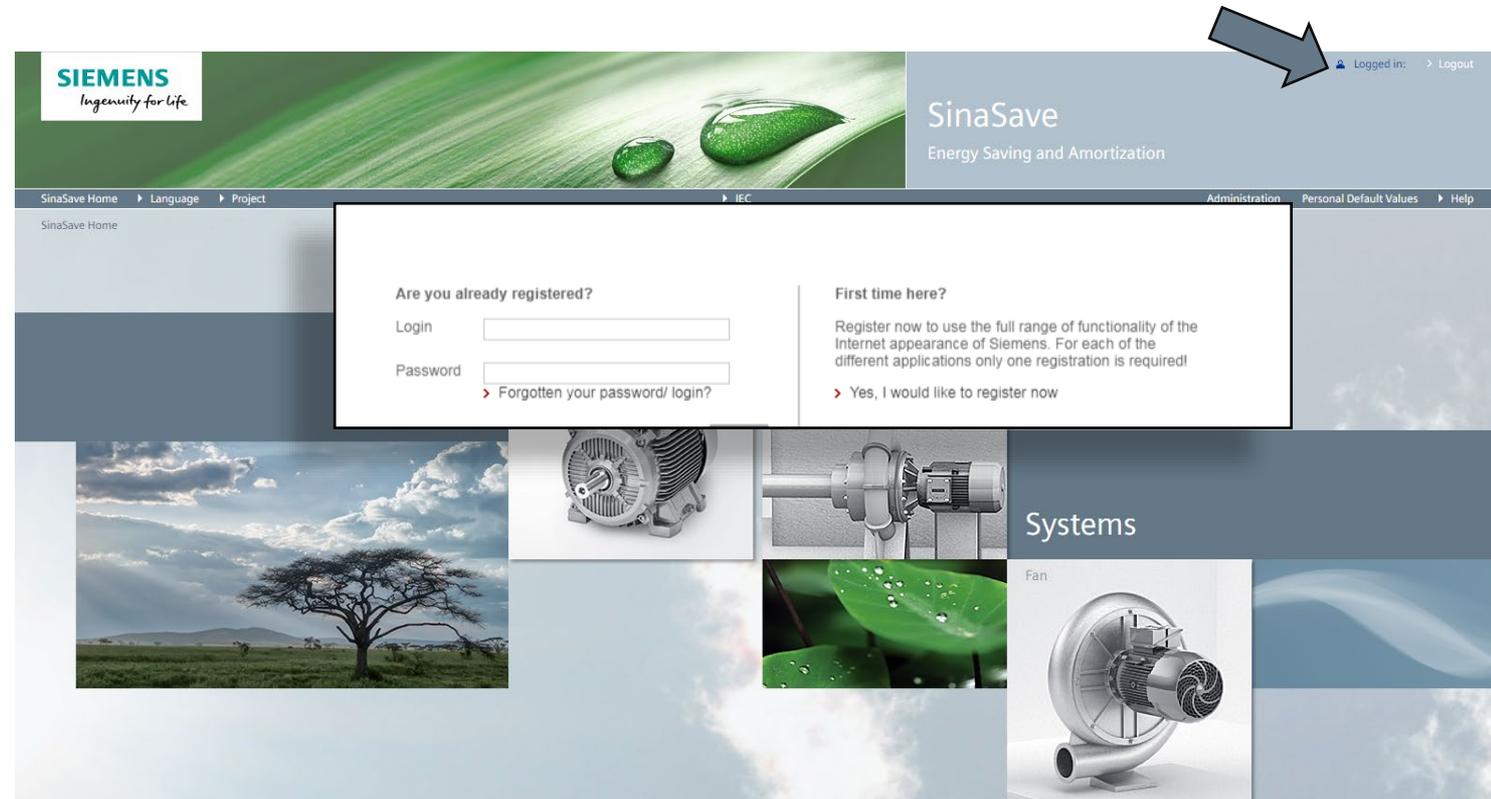
Projects / Saving / Loading

- To create or to save a project, the "Save As" call is provided under "Project " in the menu bar

- Every comparison is associated with a project, and each project can contain multiple comparisons

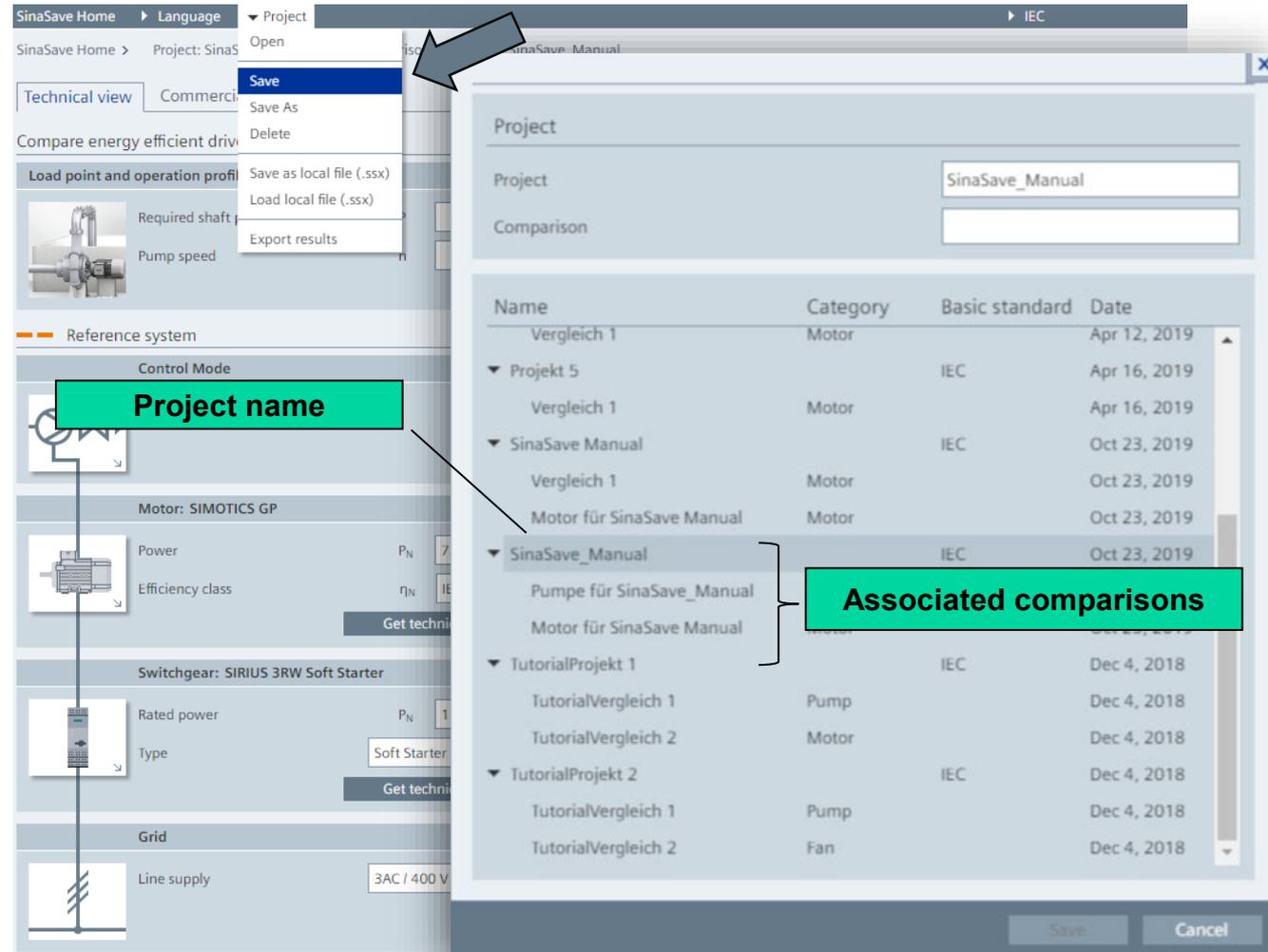- To save, names must be **assigned to the project and the comparison itself**. This automatically creates a new project

- If projects are already available, the comparison can alternatively also be added to one of these existing projects

Project name

Associated comparisons

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Projects / Saving / Loading

- The **navigation bar** (Navbar) is displayed after the project was saved with the new comparison

- It shows the **name of the currently opened project** and **comparison**

- A click on the project name takes you back to the "Project view"

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Projects / Saving / Loading

- The **project view** is subdivided into several areas

- The area highlighted here allows the possibility of editing the **project header data**

- This information is subsequently provided on the cover sheet of the export file (.pdf or .docx)

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Projects / Saving / Loading

- For example, the currency and the energy price have been adapted here using the " " button.

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Projects / Saving / Loading

- The **list of comparisons** is provided beneath the project view

- This list allows an overview of the comparisons associated with the project. **Key information** (e.g. name, type, etc.) and the **most important results** are represented within the comparisons

- A "quantity" can be stored here if a comparison is featured more than once in a system or plant, e.g. several identical pumps **with the same** operation profile

- The "Actions" area allows an individual comparison to be **opened**, **shared** (email), **exported** or **deleted**

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Projects / Saving / Loading

- Within the project view, a system or motor comparison can be **selected** and **created**

- Upon selection of a system or motor, the user is returned to the standard "Technical view"

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Projects / Saving / Loading

- Once the **comparison** has been edited (refer to chapters "Motor comparison", "System comparison for pumps and fans"), it can be **saved** via the quick menu

- The project name has already been selected

- The name proposed for the created comparison can be accepted with "Save" or may be renamed manually

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Projects / Saving / Loading

- You can now find the motor comparison just created in the **comparison list of the project view**

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Projects / Saving / Loading

- The results of **each active comparison** are taken into account in the **project results**

- The "Lifetime costs" and "Amortization" as well as the "Project results" topic do <u>not</u> reflect the **result of a single comparison**, but **that of the complete project**
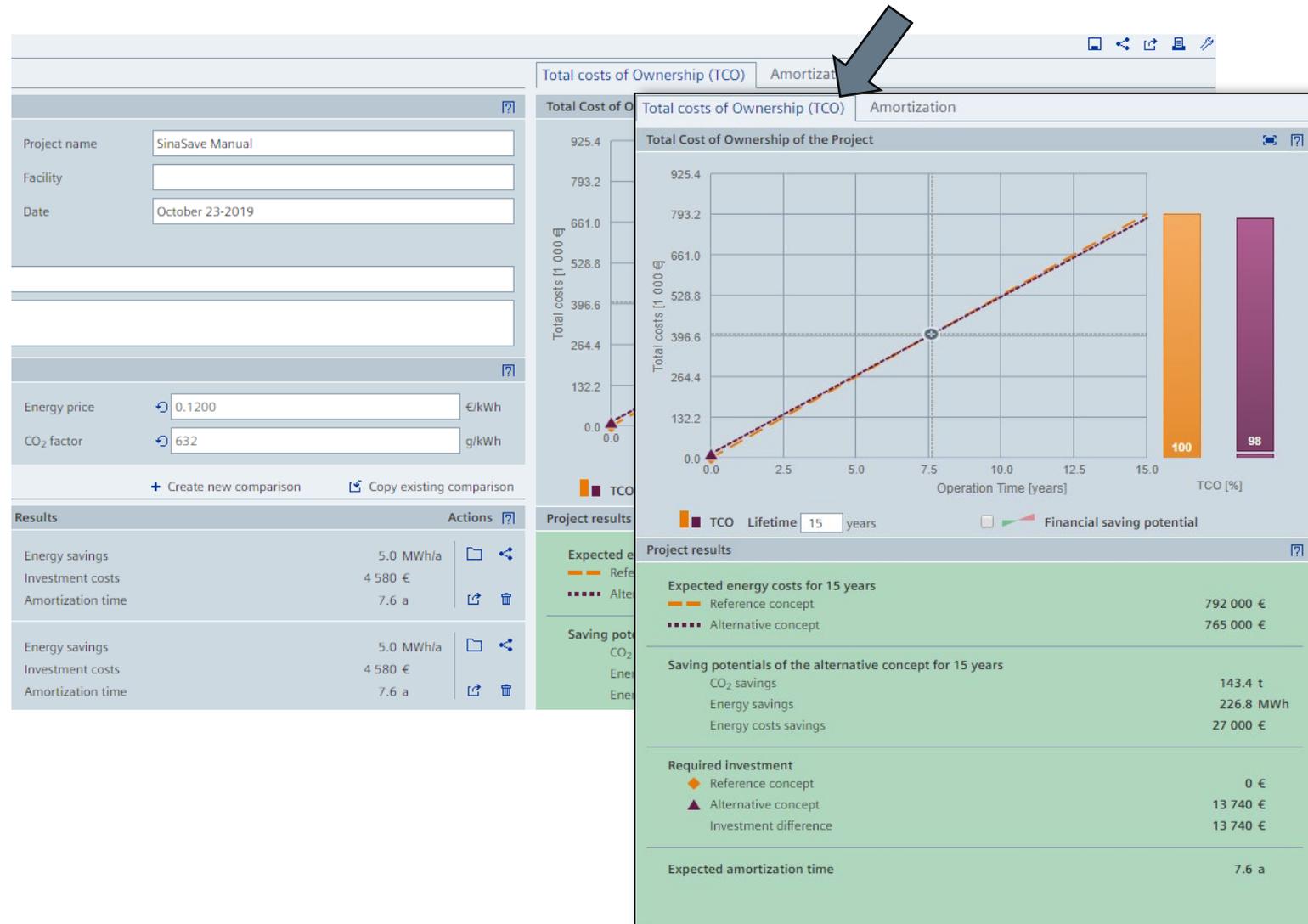
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Sharing (email) and exporting (.pdf/.docx) results

- **Login is necessary** to access the following SinaSave functions. A login function is provided in the upper, right-hand section of the screen

- **Initial situation:** A project has been created and should now be saved locally for subsequent processing (.ssx), then exported (.pdf / .docx), and forwarded to colleagues (email)

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Sharing (email) and exporting (.pdf/.docx) results
Saving / loading results locally

- The **project view** is opened by clicking on the project name (here: SinaSave_Manual) in the **navigation bar**

- Via the "Project" menu item, the results can be saved locally, in other words on the respective computer being used ("Save as local file"), from where it may be subsequently loaded again ("Load local file")

- .ssx is a unique data format used by SinaSave

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Sharing (email) and exporting (.pdf/.docx) results
Exporting results

- Results can be exported via the **quick menu**. Clicking on the **export symbol** opens a dialog which provides an option to select either **DOCX** or **PDF**

- In addition to the file format, various contents are also available for selection:

  - a **summary of the project results**

  - a **project summary including all detailed information** for comparisons incorporated in the project

Sharing (email) and exporting (.pdf/.docx) results
Exporting results

- The **export symbol** ⤴ is also provided in the "List of single comparisons"

- There is also a possibility here to export **results of a single comparison**

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Sharing (email) and exporting (.pdf/.docx) results
Sharing results via email

- The **share symbol** in the quick menu allows **results** from SinaSave **to be shared** with colleagues or customers. Thus, an **email** which conveys the respective results as an **attachment** can be sent directly from the tool

- This functions as follows:

  - Enter an email address in the "To" field
  - Selection of the desired format and content (email attachment)
  - (Adaptation of the text in the "Message" field)
  - Send
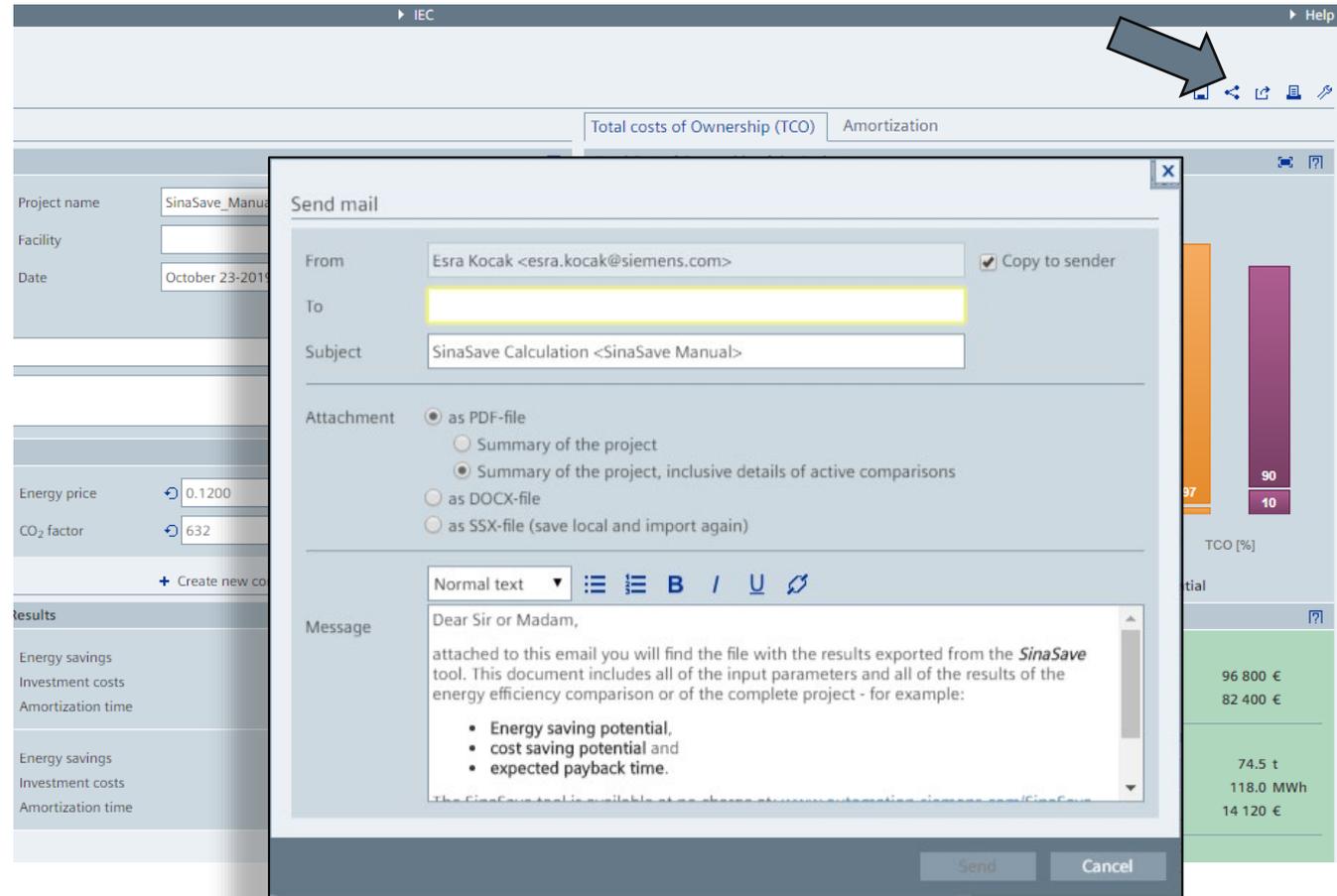
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Sharing (email) and exporting (.pdf/.docx) results

Email from SinaSave

Attachment: Results as a PDF
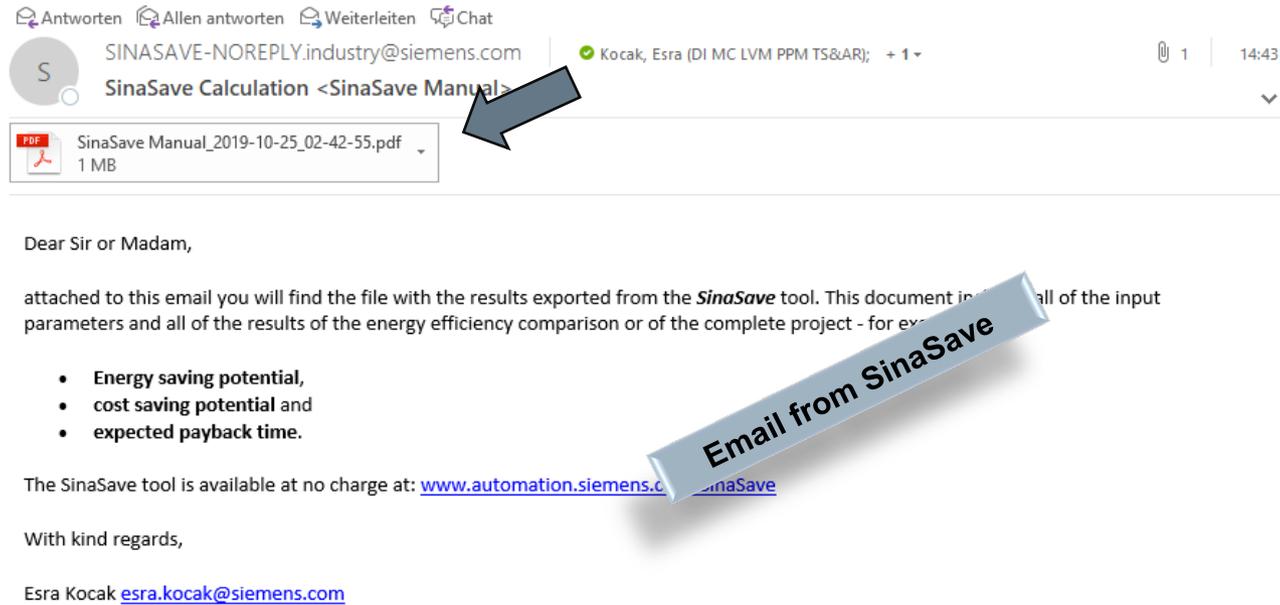
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Thank you for your attention!

For further information and support, please contact:

Mr. Pham Vu Quang Huy

Siemens Digital Industries Vietnam

Mobile: (+84) 91 161 8844

Email: pham-vu-quang.huy@siemens.com

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