

## Overview of e!Sankey 4 features

All features of e!Sankey 4, e!Sankey 4 pro and e!Sankey 4 calc:

### Basic Functionality for Sankey Diagrams

The following basic features support a intuitive and quick setup of Sankey diagrams:

- Processes (nodes) and Arrows with various layout options
- Entries (e.g. material, energy) for flows
- Unit handling: defining and converting unit types and units
- Color management
- Configurable legend
- Configurable arrow labels for flow quantities
- Text elements for additional descriptions or comments
- Export of Sankey diagrams in different graphic formats (PNG, JPG, GIF, BMP, EMF, PDF)

### Numerous Options for flows and arrows

Arrows in Sankey diagrams show the flow quantities. The correct arrow width is set automatically by e!Sankey:

- Configurable arrow tail and head
- Waypoints for arrow routing
- Rounded arrow bends
- Hook arrow to another process
- Multi flow arrows (stacked arrows)
- Colors, patterns or color gradients on arrows
- Automatically hide flows with quantity zero

### Processes and and other graphical elements

Processes (nodes) are the symbols arrows in e!Sankey are hooked to:

- Processes (nodes) can be adapted in shape, style and color
- Labels for processes
- Hide/show processes
- Use icons and images as process symbols
- Align processes
- Adapt height of process automatically to width of connected arrows
- Connect arrow to any of the four sides of a process
- Balance check at process (In=Out) per unit type
- Visualize stock increase/decrease at process (only in e!Sankey pro & calc)
- Additional graphical elements: rectangle, ellipsis, circle, line, ...
- Use images or maps as backdrop

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### Working with Units and Scaling

Besides the common energy flows and material streams, you can also present flows in any other unit type with Sankey diagrams (e.g. currency, volumes, density...)

- Handle unit types separately
- Scaling per unit type using slider
- Show/hide flows per unit type
- Unit conversion
- Define default color pallet per unit type
- Upper threshold for scaling (cut-off value)
- Lower threshold with minimum width
- Optional spiked arrow-heads only for thin Sankey arrows
- Number format can be defined per unit type
- Display percentage (per unit type) in arrow label

### Live Link to Microsoft Excel (only in e!Sankey 4 pro & calc)

The live link to Microsoft Excel can be used to update Sankey diagrams through Excel spreadsheets:

- Produce updates of your Sankey diagrams by changing values in Excel - ideal for recurring reporting tasks
- Live Link reference into one or more Excel files
- Overview dialog allows editing Live Links
- Live Link status display
- Linking to flows and stock changes
- Linking process names and text elements
- Value zero in Excel cell? Hide empty arrows and inactive processes

### Calculation of entries and flows (only in e!Sankey 4 calc)

Using the following operations you can specify processes in order to calculate and generate entries and flows, e.g. when certain data is missing:

- Calculate the sum of all input flows and create a flow at output arrow
- Merge all flows from all incoming arrows and pass them to the output arrow. Flows of the same entry will be summed up.
- Calculate the difference of the surrounding flows and creates a flow at the output arrow.
- Split all flows from input arrows by a given ratio.

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### More valuable program features:

- Multi-step Undo/Redo
- Copy/Paste of diagram sections
- Multiple element edit
- Presentation mode (kiosk mode) and design mode
- Hide windows to gain more drawing area, use on two monitors
- Many examples from energy management, facility mananagement, combined heat and power (CHP)
- Document models (templates) with style definitions
- Full Unicode support for diagram labels and text elements (Chinese, Japanese, Arabic, Hebrew script)
- Start Center with diagram thumbnails
- Online help, user manual, YouTube channel with e!Sankey tutorial videos

For further information please visit [www.e-sankey.com](http://www.e-sankey.com) or send us an e-mail to [info@e-sankey.com](mailto:info@e-sankey.com)