### HOW TO GUIDE

# Installation and activation of energyPRO





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#### About energyPRO

energyPRO is a Windows-based modeling software package for combined techno-economic analysis and optimisation of complex energy projects with a combined supply of electricity and thermal energy from multiple different energy producing units.

The unique programming in energyPRO optimises the operations of the plant including energy storage (heat, fuel, cold and electrical storages) against technical and financial parameters to provide a detailed specification for the provision of the defined energy demands, including heating, cooling and electricity use.

energyPRO also provides the user with a detailed financial plan in a standard format approved by international banks and funding institutions. The software enables the user to calculate and produce a report of the emissions by the proposed project.

energyPRO is very user-friendly and is the most advanced and flexible software package for making a combined technical and economic analysis of multi-dimensional energy projects.

For further information concerning the applications of energyPRO please visit www.emd.dk.

#### Terms of application

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EMD International A/S, October 2021

## Contents

This How to Guide is a step-by-step guide on how to download and install energyPRO and how to activate and deactivate your energyPRO license.

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### **Download of energyPRO**

If you already have an installation file of energyPRO located on your computer, you can skip this chapter and move on to Installation of energyPRO.

To download the latest version of energyPRO, go to EMD's website: <u>http://www.emd.dk/energypro/download/</u> and click on "Download".

EMD International	Software Dat	a Services	Consultancy	Live Data
	Modules	Download	Order	Support
Download	Customer data 🛛 🛶	Download		
<b>energy</b> PRO	energyPRO 4.8.11	4		

Figure 1. Go to the EMD webpage to download energyPRO

This opens a form, in which you need to type in some information in order to continue the download of energyPRO.

Download	
Select product 🛛 🔸	Customer data> Download
Select product  Company Company Company Company Company Company Company Country* Country* Country	Company
Name*	Name
Country*	SELECT COUNTRY 🗸
Email*	Email

By completing this form you accept that EMD can store your information.

We will never sell or share your information with others. We may send you emails with related content. Please see our privacy statement for more information.

\* Required field

🕂 Continue

Figure 2. Type in the needed information

Click "Continue" once the information has been provided.

Your download will start.

Your download has started Restart the download	Opening energyPR04.8.114.msi X You have chosen to open: PenergyPR04.8.114.msi which is: Windows Installer Package (163 MB) for the Windows Installer Package (163 MB)
energy PRO	from: https://www.end-international.com Would you like to save this file? Save File Cancel
Psst!! You may have to allow your browser to download the installation file. Click the "Run"	or "Save" button in the bottom of your browser window.

Figure 3. Download of energyPRO has started

You will be asked to either run the msi.file or save the msi.file. Select the latter and save the file. The location of the msi.file is not important as it is will only be used to install energyPRO.

You have now successfully downloaded energyPRO. Now it is time to install the program.

#### Installation of energyPRO

To install energyPRO, click on the msi file and start the installation process by selecting "OK".



Figure 4. Click on the msi file to install energyPRO

#### Follow the instructions on the screen.

nergyPRO 4 Setup	<b>X</b>
	Welcome to the energyPRO 4 Setup Wizard
$\bigcirc$	The Setup Wizard will install energyPRO 4 on your computer. Click "Next" to continue or "Cancel" to exit the Setup Wizard.
energy PRO	I
	< Back Next > Cancel

Figure 5. Click next to move on in the installation process

Accept the terms in the license agreement and click "Next" to continue the installation.



Figure 6. Click "Next"

As part of the energyPRO software package you install a folder called energyPRO Data. This folder contains different time series with weather data and electricity prices as well as project examples. As default, this folder is placed on the C: drive.

energyPKO 4 Setup	X
energyPRO data	
Select Location for energyF	PRO Data
C:\energyPRO Data\	
Browse	
Notice: The energyPRO users of energyPRO ha energyPRO. Placing the affect the performance energyPRO data folder should never be placed	data folder should be placed in a location where all ve both read and write access when running energyPRO data folder on a network drive might of energyPRO. For the best performance place the on a local hard drive. The energyPRO data folder under 'Program Files'.
Notice: The energyPRO users of energyPRO ha energyPRO. Placing the affect the performance energyPRO data folder should never be placed	data folder should be placed in a location where all ve both read and write access when running energyPRO data folder on a network drive might of energyPRO. For the best performance place the on a local hard drive. The energyPRO data folder under 'Program Files'.

Figure 7. Click "Next" if you are satisfied with the location of the energyPRO Data folder

If you are satisfied with the location of the energyPRO Data folder click "Next".

You can select between a customized or complete installation. For first time use, click "Complete" followed by "Next".

Choose Setup Type Choose the setup ty	pe that best suits your needs
	Custom Allows users to choose which program features will be installed and where they will be installed. Recommended for advanced users.
No. Contraction of the second	Complete All program features will be installed. (Requires most disk space)
vanced Installer	

Figure 8. Click "Complete" to install the entire energyPRO package

Finalize the installation process by clicking "Install".

energyPRO 4 Setup		×
Ready to Install		
The Setup Wizard is ready to be	jin the energyPRO 4 installation	
Click "Install" to begin the installa installation settings, click "Back".	tion. If you want to review or change any of you Click "Cancel" to exit the wizard.	r
dvanced Installer		
		Cancol

Figure 9. Click "Install" to finalize the installation process

Finish the installation of energyPRO by clicking "Finish".



Figure 10. Click "Finish" to finish the installation of energyPRO

You have now successfully downloaded and installed energyPRO.

Please notice that the installed energyPRO is only a demo version of energyPRO in which it is not possible to save a project and all reports will include a watermark telling that it is a demo version.

If you have purchased a license for energyPRO and want to activate it, you should read the following chapter.

### **Activation of energyPRO**

When opening energyPRO you will meet this message:

To activate energyPRO you first need to open the program. You do this by doubleclicking the energyPRO icon on the desktop, created during the installation of energyPRO. You will meet this message

● energyPRO 4.8 (UNREGISTERED DEMO VERSION)           Eile gnergyPRO setup Project setup Tools Window License Help           ① □ □ ▷ ▷ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	>
Input data         Project identification         External conditions         Site 1         Transmissions         Project identification         Projection         Projection	<ul> <li>Zoom: 100%  P III A + X P P E S E Site Overview</li> <li>Demo mode</li> <li>Demo mode</li> <li>energyPRO has not been activated, the program is in Demo mode. In Demo mode you can load energyPRO project files, make calculations and see the results. You cannot make changes in the projects.</li> <li>If you are new to energyPRO, you can request a time limited test license, giving you full access to all the features and modules in energyPRO. Please, select the Request test license below.</li> <li>If you are new a license, select Go to activation.</li> </ul>
Reports	Kequest test license Go to activation Continue in Demo
Production, graphic     Production, carpets     Energy conversion, annual     Energy conversion, monthly     Environment, monthly	

Figure 11. Message when opening energyPRO in Demo.

To activate either click "Go to activation" or go to "License" in the top bar and select "License activation".

e energy no setup project set	up loois <u>W</u> indow Lie	tense <u>H</u> elp
🗘 📂 💾 🙆   🗗   🗮 🤀	) 🖻 🎟 TS 🔟 📃	License activation
🗵 Input data	🛛 🔓 🖌 🖌 Zoom	Deactivate license
Project identification		Show Activation Statistics
Sites		
Site 1		
Transmissions		
Fuels		
Energy conversion unit		
Storages		
Electricity markets		
Operation strategy		
Environment		

Figure 12. Go to "License activation" to start the activation process

You will have this window, where you can choose to activate by Serial number or License file.

O energyPRO registratio	n		×
License file			
The license file opens holds information on t will appear on all repo	those modules for which you have bought a licence. Additionally, the file he licence holder, such as customer number, company name, etc. that rts produced from energyPRO.		
<ul> <li>Serial Number</li> </ul>	XXXX-XXXXX-XXXXX-XXXXX-XXXXX		
O License file	energyPRO4.8.erf	Brows	se
Qk	Cancel		

Figure 13. Activate by serial number or license file

The serial number can be copied from the license e-mail and pasted into the window above. If instead you have received a license file, it should be saved on your computer from your e-mail program and selected using the Browse button from the screen above.

If you have saved the file elsewhere, just browse to find it and open it.

Click "Accept" on the end user license agreement.

In connection with this	s license purchase I / we consent to the following terms:	1
Restrictions, Disclai	imer and Limitation of Liability	
Article 1. Software Restric	tions	
No part of the program(s) system or translated into electronically, mechanica written permission from E License rights will be disc	) or manual(s) may be copied, distributed, transmitted, transcribed, stored in a retrieval any human or computer language in any form or by any means what so ever, be it ally, magnetically, manually or otherwise. Nor may it be disclosed to a third party without SMD International A/S. The LICENSEE may take a security copy, which we recommend. continued if the terms of payment are not respected.	а
Article 2. Disclaimer of Wa	arranty and Limitation of Liability and of Remedies	
a. The software is provide guarantee or make any re the software and any soft correctness, accuracy, re the software, for the insta Also excluded is any impl fitness for a particular put	ed on an "as is" basis without warranty of any kind. EMD International A/S does not warr apresentations regarding the functionality of the software, any results obtained by the us ware support provided by EMD International A/S and their Agencies/Partners in terms o eliability, usefulness, or otherwise. The LICENSEE is solely responsible for the selection allation of, use of, and results obtained from the software and software support received. lied warranty by EMD International A/S, such as merchantability, non-infringement and rpose.	ant, ≥ of f of
b. In no event will EMD Ir including, but not limited EMD International A/S ha on a third party claim.	nternational A/S be liable for indirect, consequential, incidental or special damages to, lost profits and lost savings arising out of the use or inability to use the software, eve as been advised of the possibility of such damages or for any claim by the LICENSEE ba	en if sed
c. For any claim whatsoev actual damages, regardle license for the software th of action.	ver related to the subject matter of this Agreement, EMD International A/S's liability for ess of the form of action, shall be limited to the amount paid to EMD International A/S for hat caused the damages or that is the subject matter of, or is directly related to, the cau	the se
d. The LICENSEE agrees any negligent act or omis	; to indemnify, defend and hold harmless, EMD International A/S for liability arising out o ;sion of the LICENSEE, its employees, contractors or agents with respect to the software	f E.
e. No action, regardless of action has arisen, except	of form, arising out of this Agreement, may be taken later than two years after the cause for breach of the provisions in article 1, for which four years shall apply.	of

Figure 14. Accept End user license agreement

Click "Next" to continue the activation process.

🖸 Software Activation 💦 🗖 🗖	×
Software Activation	
This software must be activated! Activation means that some information is sent to EMD International A/S, and an activation code is returned.	9
This only has to be done once for each Software version/computer/user.	
If online activation fails, you would be offered the possibility of activating by phone or e-mail. Please proceed.	
Next > Cancel	

Figure 15. Click "Next"

Type in the name of the end user and the email to whom the activation code should be sent. Alternatively you can call the EMD Sales Department on +45 9635 4420 to help activate your license by phone.

O Software Activation		×
Activation informatio	n	
User information		This information will be sent to the activation
Application Id:	energyPRO 4.8 V	server. Press Next to start the communication.
Disc Id:	TS235354	
Computer Id:	PC054	
User name:	Leif	need to allow the program to communicate
Customer Data:	1000 EMD International A/S Niels Jernes Vej 10 DK-9220 Aalborg Ø	with the EMD server using HTTP.
I am:	<ul> <li>End user</li> <li>Administrator</li> </ul>	
End user		
Name:		
E-mail:		
Repeat e-mail:		
		Skip online activation, and activate by
		- phone or e-mail
< Back Ne	xt > Cancel	

Figure 16. Type in the activation information

Click "Next" once name and email is added.

You must now select if you want to activate all the modules you have purchased, or just some of them.

O Software Activation – 🗖 🗙
Select module selection method All or individual modules
If you wish to activate individual modules, please check "Activate individual modules" below. This is only relevant if you have a multi user license with different module access.
If "Activate ALL modules" (default) you will go to the page where the activation code, sent to you by email, must be entered.
Activate Al L modules
Activate individual modules
< Back Next > Cancel

Figure 17. Select "Activate ALL modules"

If "Activate individual modules" is selected you have to point out the modules you wish to activate. The list will show you your available options. If the module you wish to register is not on the list, then you do not have a valid license for it and you may want to contact EMD. By showing the activation statistics, you can see who are currently using the licenses in your company.

O Software Activation	_ <b>_</b> ×
Select modules	
<ul> <li>✓ DESIGN</li> <li>✓ FINANCE</li> <li>✓ OPERATION</li> <li>✓ REGION</li> <li>✓ ACCOUNTS</li> <li>✓ MARKETS</li> <li>✓ INTERFACE</li> <li>✓ ETRADE</li> <li>✓ COMPARE</li> <li>✓ ENGLISH</li> <li>✓ DANISH</li> <li>✓ GERMAN</li> <li>✓ LITHUANIAN</li> <li>✓ POLISH</li> </ul>	Information Each module can only be activated on as many computers as you have purchased licenses for. Available licenses are shown in brackets. Notice that previous activations made on this PC are included in the statistics! If you are not sure whether you have the licenses needed, contact EMD. You can at any time deactivate modules by running the registration again and deselecting the unwanted modules.
Select all Deselect all	Show your activation statistics
< Back Next >	Cancel

Figure 18. Select modules if you selected "Activate individual modules"

At this time, you should have received an activation code in your email inbox. If you cannot find the email with the activation code, it may be in the spam folder.

Type in the activation code and click "Next".

O Software Activation	-	×
Enter activation code		
The code is being sent to this address: Iht@emd.dk. If the code does not arrive within a few minutes, then please inspect your spam-mail system.		
Activation Code:		
< Back Next > Cancel		

Figure 19. Enter the activation code

You have now successfully activated energy PRO. Click "Finished" to finish the activation process.

O Software Activation	-	x
Activation succeded!		
You have now activated your software, for this PC and this user		
Finished		

Figure 20. Activation succeeded

The activation process ends by showing you the "About"-window for energyPRO where you can see the license information. You can also see your current version of energyPRO.

Click "Restart".

Once the program is restarted, you will be ready to experience the many features in energyPRO.

About				
			Copyright:	
			EMD Internation Niels Jernes V DK-9220 Aalbo Tel: +45 9635 4 Fax: +45 9635 E-mail: energy Info: www.emd	nal A/S ej 10 rg O 1444 4446 pro@emd.dk dk
energyPRO 4	ergy	<sup>2</sup> R D	EMD Internatio Niels Jernes V DK-9220 Aalbo +45 9635 4444	nal A/S ej 10 rg Ø
Internet connections:		data	1000 Leif Holm Taml	ojerg
Modules and act	ivated licenses:	Jare		
Modules	Registered		Languages	Registered
DESIGN	X	_	English	X
FINANCE	Х		Danish	Х
ACCOUNTS	Х		German	х
OPERATION	Х			
REGION	х			
MARKETS	Х			
INTERFACE	х			
COMPARE	Х			
		Destart		

Figure 21. The "About" window showing the activated modules

### **Deactivation of energyPRO**

Deactivating energyPRO on a computer can be relevant if you get a new computer and want to move energyPRO to the new computer or if a colleague is taking over your license.

To deactivate energyPRO, go to "License" and click "Deactivate license".

#### energyPRO 4.8

🛛 🖂 🖾 🖾 🖄 🖓 🖓 🖾	• 2 • 5 •	Deactivate license
Project identification		Show Activation Statistics
Site 1		
Demands Energy conversion unit Storages		
Electricity markets Operation strategy Environment		

Figure 22. Go to "Deactivate license"

Click on "Yes" to complete the deactivation.

Confirm	×
?	Are you sure you want to deactivate energyPRO and thereby go in to DEMO mode?
	Yes No

Figure 23. Click "Yes" to deactivate the license

energyPRO will then reopen in demo mode.

energyPRO 4.3 (UNREGISTERED DEMO VERSION)	- 🖻 🛎
Eile energyPRO setup Project setup Tools Window Help	
1 * <b>5 G A</b> E <b>A</b>	
Input data	Dr T - Zoom 100% C A + X - C Site Overview Orerstein strateny
Orgent Montification     Orgent Montification     Sterma Conditions     Orgent     Transmissions     Orgent     Orge	
terretaria de la constante de	
Production, graphic Production, cryptis Breng Conversion, monthly Cash Rev, monthly Cash Rev, monthly Cash Rev, monthly Cash Rev, monthly Cash	

Figure 24. energyPRO reopens in demo mode

Your license is now deactivated and it is now possible to activate the license by another user or on another computer.

Please notice, that you can find more information on how to use energyPRO in the How to Guides, User's Guide and tutorials on EMD's website:

http://www.emd.dk/energypro