## 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, Feb 2019

## 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 "Click here to download latest energyPRO".



## Download energyPRO

Click here to download latest energyPRO (version 4.4.173 size 98 MB)

Please notice that without a valid energyPRO license the downloaded version is a demo version, meaning that you can create and edit projects, read projects and make calculations and reports (but reports will have a "DEMO-banner" on) and you will not be able to save your new projects.

With a valid license the programme will work normally and you are able to both save your projects and print with your "company banner".

Note than an upgrade to energyPRO 4.4 requires a new license file. If you have a running service agreement by EMD you can get a new one by contacting EMD. Phone: +45 9635 4444 or e-mail: sales@emd.dk

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.

# energyPRO Download

Please provide the following information:

Company	
Name	
Address	
Post Code	
City	
Country	Please select country 🔹
Tel. no.	
Fax. no.	
E-mail	

Download >

Figure 2. Type in the needed information

Click "Download" once the information has been provided.

This will redirect you to a webpage similar to the one shown below. Click "/download/energyPRO...msi" to download the energyPRO.msi installation file.

## energyPRO Download

Thank you for your interest in our software. If you need further information don\'t hesitate to contact us.

energyPRO is available at . (download/energyPRO4.4.173.msi

If you have problems downloading energyPRO, you can try to download the demo from our FTP server: ftp.emd.dk with an FTP client. Often FTP gives a more fault tolerant transmission.

Figure 3. Click "/download/energyPRO ... msi" to finish the download of energyPRO

Next, 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 "Run".

Open File - Security Warning				
Do you	Do you want to run this file?			
- <b>A</b>	Name:	C:\Users\kasper\Downloads\energyPRO4.3.67.msi		
	Publisher:	EMD International A/S		
	Type:	Windows Installer Package		
	From:	C:\Users\kasper\Downloads\energyPRO4.3.67.msi		
		Run Cancel		
🔽 Alwa	Always ask before opening this file			
۲	While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers you trust. What's the risk?			

Figure 4. Click on the msi file to install energyPRO

Follow the instructions on the screen.

🙀 energyPRO 4 Setup	X		
Welcome to the energyPRO 4 Setup Wizard			
	The Setup Wizard will install energyPRO 4 on your computer. Click "Next" to continue or "Cancel" to exit the Setup Wizard.		
energy PRO			
	< <u>B</u> ack <u>N</u> ext > Cancel		

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

Accept the terms in the license agreement and click  $``{\sf Next}''$  to continue the installation.

energyPRO 4 Setup	X
End-User License Agreement Please read the following license agreement carefully	
In connection with this license purchase I / we consent to the following terms:	
Restrictions, Disclaimer and Limitation of Liability	
Article 1. Software Restrictions	
No part of the program(s) or manual(s) may be copied, distributed, transmitted, transcribed, stored in a retrieval system or translated into any human or computer language in any form or by any means what so ever, be it electronically, mechanically, magnetically, manually or otherwise. Nor may it be disclosed to a third party without a written permission from EMD International A/S. The LICENSEE may take a security copy, which we recommend. License rights will be discontinued if the terms of payment are not respected.	-
I accept the terms in the License Agreement	
$\bigcirc$ I <u>d</u> o not accept the terms in the License Agreement	
Advanced Installer	
< <u>B</u> ack <u>N</u> ext > Cancel	

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.

-

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".

🕼 energyPRO 4 Setup	×
Choose Setup Type Choose the setup type	e that best suits your needs
	<b>Custom</b> Allows users to choose which program features will be installed and where they will be installed. Recommended for advanced users.
RKK KKK	<b>Complete</b> All program features will be installed. (Requires most disk space)
Advanced Installer	< <u>B</u> ack <u>N</u> ext > Cancel

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

Finalize the installation process by clicking "Install".

🕼 energyPRO 4 Setup	X
Ready to Install The Setup Wizard is ready to begin the energyPRO 4 installation	O
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.	
Advanced Installer	
Advanced Installer	Cancel

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**

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.

energyPRO 4.3 (UNREGISTERED DEMO VERSION)	
Eile energyPRO setup Project setup Tools Window Help	
1 🔭 🖬 🕷 🛸 🖉 🕒	
E Input data	🛛 🖹 🖌 🗸 Zoom: 100% 🕾 🛝 🖬 🖒 🐁 🕄 Site Overview Operation strategy
Groupset identification     Groupset confliction     Groupset conf	
Reports	
Reports Report	

Figure 11. An empty energyPRO window

Go to "License" in the top bar and select "License activation	า″.
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🖸 energyPRO 4.6		
<u>File energyPRO setup Project setup Tools Window</u>	License Help	
🔿 📮 📇 🖸   🗇   🗃 🤀   🖻 🎫 🔯	License activation	
Input data      Project identification	Deactivate license Show Activation Statistics	100% 🗘
<ul> <li>External conditions</li> <li>Sites</li> <li>Site 1</li> <li>Transmissions</li> <li>Fuels</li> <li>Demands</li> <li>Energy conversion units</li> <li>Storages</li> <li>Electricity markets</li> <li>Operation strategy</li> <li>Environment</li> <li>Conomy</li> </ul>		

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

Follow the instructions and complete the four steps.

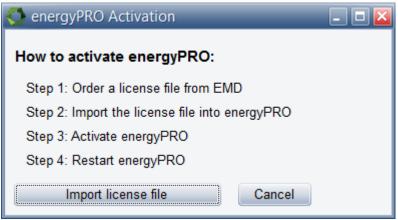


Figure 13. Follow the four steps of the license activation

Click "Import license file" which invokes an open file dialog, where you are asked to select the license file. The name of the file is **energyPROx.x.erf** (where x.x is the version number).

If you have saved the file elsewhere, just browse to find it and open it. Click the "Open" button to import the license file.

Gereine Computer ► OS (C:) ► energyPRO data ►				
Organize  Mew folder				
🚖 Favorites	Name	Date modified	Туре	
📃 Desktop	🐌 Dansk	30-04-2013 13:59	File folder	
🐌 Downloads	🐌 Database	21-10-2013 09:34	File folder	
laces 😓 Recent Places	🐌 Deutsch	21-10-2013 09:34	File folder	
	👢 English	30-04-2013 13:59	File folder	
门 Libraries	👢 Lietuviu	30-04-2013 13:59	File folder	
Documents	👢 Polski	30-04-2013 13:59	File folder	
🜛 Music	energyPRO4.2.erf	16-09-2013 15:40	ERF File	

Figure 14. Open the energyPRO license file

Click "Accept" on the end user license agreement.

S End user license agreement		
In connection with this license purchase I / we consent to the following terms:		
Restrictions, Disclaimer and Limitation of Liability		
Article 1. Software Restrictions		
No part of the program(s) or manual(s) may be copied, distributed, transmitted, transcrib stored in a retrieval system or translated into any human or computer language in any fo or by any means what so ever, be it electronically, mechanically, magnetically, manually o otherwise. Nor may it be disclosed to a third party without a written permission from EMD International A/S. The LICENSEE may take a security copy, which we recommend. License rights will be discontinued if the terms of payment are not respected.	rm r	
Article 2. Disclaimer of Warranty and Limitation of Liability and of Remedies		
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<b>c.</b> For any claim whatsoever related to the subject matter of this Agreement, EMD International A/S's liability for actual damages, regardless of the form of action, shall be limited to the amount naid to EMD International A/S for the license for the software that	Ŧ	
Accept Decline and run as demo		

Figure 15. 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.
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 16. 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.

Software Activat	tion	- 🗆 🛛
Activation informatio	n	
User information		This information will be sent to the activation
Application Id:	energyPRO 4.3	server. Press Next to start the communication.
Disc Id:	9036A4E8	communication.
Computer Id:	PC051	
User name:	kasper	FIREWALL ISSUES: You might temporarily need to allow the program to communicate
Customer Data:	1000	with the EMD server using HTTP.
	EMD International A/S Niels Jernes Vej 10	
l am:	End user	
	○ Administrator	
End user		
Name:		
E-mail:		
Repeat e-mail:		
		Skip online activation, and activate by
		└── phone or e-mail
< Back Ne	xt > Cancel	
Ne	Galicer	

Figure 17. Type in the activation information

Click "Next" once name and email is added.

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



Figure 18. 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.



Figure 19. 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".

🔇 Software Activa	ation	- 🗆 🔀
Enter activation coo	de	
The code is being so not arrive within a fe system.	sent to this address: kn@emd.dk. If the code does w minutes, then please inspect your spam-mail	
Activation Code:		
< Back N	Next > Cancel	

Figure 20. Enter the activation code

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

Software Activation	_ 🗆 🔀
Activation succeded!	
You have now activated your software, for this PC and this user	
Finished	

Figure 21. 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 Ve DK-9220 Aalbor Tel: +45 9635 4 Fax: +45 9635 4 E-mail: energyp Info: www.emd.c	j 10 g O 444 4446 ro@emd.dk	
				License holder:		
Energy PRO 4.3.65 (March 2015)         Internet connections:         Email       EMD         energyPRO Update						
	English	Danish	German	Lithuanian	Polish	
DESIGN	x	X	x	x	Х	
FINANCE	Х	Х	х	х	Х	
ACCOUNTS	Х	Х	х	х	х	
OPERATION	Х	Х	х	х	Х	
REGION	Х	Х	х	х	х	
MARKETS	Х	Х	х	х	Х	
INTERFACE	Х	Х	Х	х	Х	
			Restar	t		

Figure 22. The "About" window showing the activated modules

## **Deactivation of energyPRO**

Deactivateing 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".

O energyPRO 4.6				
<u>File</u> nergyPRO setup <u>P</u> roject setup <u>T</u> ools <u>W</u> indow	License Help	_		
🖸 📮 📂 🗒 🖓 👘 👘 🖓	License activation	1		
🛨 🗖 Input data	Deactivate license	100% 0	¢ p	
Project identification	Show Activation Statistics		•	
<ul> <li>External conditions</li> <li>Sites</li> <li>Site 1</li> <li>Transmissions</li> <li>Fuels</li> <li>Demands</li> <li>Energy conversion units</li> <li>Storages</li> <li>Electricity markets</li> <li>Operation strategy</li> <li>Environment</li> <li>Conomy</li> </ul>				

Figure 23. Go to "Deactivate license"

Click on "Yes" to complete the deactivation.

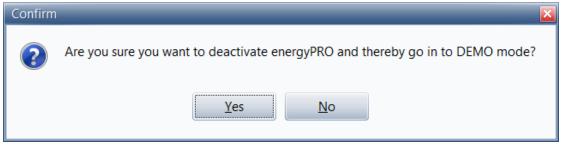


Figure 24. Click "Yes" to deactivate the license

energyPRO will then reopen in demo mode.

🖕 eergy/R0 4.3 (UNREGISTERED DEMO VERSION)				
Eile energyPRO setup Project setup Tools Window Help				
E Input data	k J + Zoom: 100% S M A + X H ⊃ S Site Overview Operation strategy			
Comparison     C				
· · · · · · · · · · · · · · · · · · ·				
Reports  Production, graphic  Production, carpets  For grand conversion, annual  Production, carpets  Production,				

Figure 25. 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



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