

## Enerplot v1.1.1 – System Requirements

This document covers requirements for installing, licensing, and running Enerplot version 1.1.1.

### 1. USAGE

| Category              | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating System      | <p>Supported on the following 64-bit editions of Microsoft® Operating Systems:</p> <ul style="list-style-type: none"> <li>Officially supported on: Windows 10 64-bit and Windows 11</li> <li>Other: Windows Server 2008 R2 SP1 or better, Window Servers 2012/2016/2022</li> </ul> <p>Note – It should be possible to run on a virtual machine. Contact <a href="#">Support</a> for details.</p> <p>Not supported on any of the following Microsoft® Operating Systems:</p> <ul style="list-style-type: none"> <li>A 32-bit edition</li> <li>Windows XP, Windows Vista, Windows 7 SP0, Windows 7 SP1, Windows 8, and Windows 8.1</li> </ul> |
| Prerequisite Software | <p>Microsoft® Visual C++ 2022 Redistributables (x86 and x64)<sup>[1][2]</sup></p> <p>Microsoft® .NET Framework 4.8<sup>[2]</sup></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Launching and Running | Microsoft® Windows User privileges                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Licensing             | See Section 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Execution Permissions | <p>The Enerplot application executable file must be whitelisted in all protection software:</p> <ul style="list-style-type: none"> <li>C:\Program Files (x86)\Enerplot\&lt;version&gt;\bin\Win64\Enerplot.exe</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Folder Permissions    | <p>The following sub-folders will be created; the user must have full file/folder permissions:</p> <ul style="list-style-type: none"> <li>For your settings files:<br/>C:\Users\Public\Documents\Manitoba Hydro International\Licensing\Settings</li> <li>For your log files:<br/>C:\Users\Public\Documents\Manitoba Hydro International\Licensing\Logs</li> </ul>                                                                                                                                                                                                                                                                          |

### 2.a INSTALLATION – General

| Category                                    | Requirements                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Registry Keys Permissions – Enerplot v1.1.1 | <p>32-bit registry keys:</p> <ul style="list-style-type: none"> <li>HKCR\epbx</li> <li>HKCR\epwx</li> <li>HKLM\Software\Wow6432Node\Manitoba Hydro International\Enerplot\1.1.1</li> </ul> <p>64-bit registry keys:</p> <ul style="list-style-type: none"> <li>HKLM\Software\Manitoba Hydro International\Enerplot\1.1.1</li> <li>HKLM\Software\Microsoft\Windows\CurrentVersion\Uninstall\Enerplot 111 x64</li> </ul> |
| SCCM, PSAppDeploy, or Intune                | Successful installation via these products is <b>not</b> currently supported or guaranteed.                                                                                                                                                                                                                                                                                                                            |

## Offline Plotting & Analysis

### 2.b INSTALLATION – Installer Utility (Preferred Installer)

| Category             | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Requirements | As listed in Section 2.a                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Operating System     | <p>Any of the following Microsoft® Windows Operating Systems (64-bit editions):</p> <ul style="list-style-type: none"> <li>Officially supported on: Windows 10 (64-bit), Windows 11</li> <li>Other: Windows Server 2008 R2 SP1 or better, Windows Servers 2012/2016/2022</li> </ul> <p>Note – It should be possible to run on a virtual machine. Contact <a href="#">Support</a> for details.</p> <p>Not supported on Windows 7 SP0 or older, Windows 7 SP1, Windows 8, or Windows 8.1</p> |
| Downloading          | Internet connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Running              | <p>Microsoft® Windows Administrator privileges</p> <p>The user must have full permissions for the following path:</p> <p>C:\Users\Public\Documents\</p>                                                                                                                                                                                                                                                                                                                                    |
| Logging              | <p>The following sub-folder will be created, and the user must have full permissions:</p> <p>C:\Users\&lt;Your_UserID&gt;\AppData\Local\Manitoba HVDC Research Centre\Installer</p>                                                                                                                                                                                                                                                                                                        |

### 2.c INSTALLATION – MyUpdater

| Category                                     | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General Requirements                         | As listed in Section 2.a                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Access to Product Downloads                  | <p>Add the first or both of the following URLs to all anti-virus/firewall whitelists:</p> <p><a href="https://products.pscad.com">https://products.pscad.com</a></p> <p><a href="ftp://ftps.pscad.com">ftp://ftps.pscad.com</a></p>                                                                                                                                                                                                           |
| Installing                                   | <p>Microsoft® Windows Administrator privileges</p> <p>Internet connection</p>                                                                                                                                                                                                                                                                                                                                                                 |
| Launching<br>(to Install or Update Software) | <p>Microsoft® Windows Administrator privileges</p> <p>Internet connection</p>                                                                                                                                                                                                                                                                                                                                                                 |
| Launching (to Uninstall Software)            | Microsoft® Windows Administrator privileges                                                                                                                                                                                                                                                                                                                                                                                                   |
| Launching<br>(to Launch Installed Software)  | Microsoft® Windows User privileges<br>(unless otherwise specified)                                                                                                                                                                                                                                                                                                                                                                            |
| Connection to Publication Server             | <p>Add the first or both of the following URLs to all anti-virus/firewall whitelists:</p> <ul style="list-style-type: none"> <li><a href="http://publisher.pscad.com:80/">http://publisher.pscad.com:80/</a></li> <li><a href="net.tcp://publisher.pscad.com:443/">net.tcp://publisher.pscad.com:443/</a></li> </ul>                                                                                                                          |
| Supported Protocols                          | TLS 1.0, TLS 1.1, TLS 1.2                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Proxy support                                | <p>Not all proxy servers or proxy configurations are supported.</p> <p>Operation with NTLM, SAML, OIDC and Certificate authentication proxies is not supported at all.</p> <p>If your proxy server or proxy configuration is not supported, the proxy server will need to be bypassed for all MyUpdater traffic to the specified URLs above.</p> <p>Alternatively you can contact our support desk for alternative download instructions.</p> |

## Offline Plotting & Analysis

HTTP Service

Add to all anti-virus/firewall whitelists:

<http://publisher.pscad.com/Updater/ClientService>

### 3. CERTIFICATE LICENSING

| Category                               | Requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Certificate                            | MyCentre user account with access to a licensed WorkGroup                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Operational Requirements               | Supported on a local desktop, or remote desktop, or over virtual private network (VPN). Not guaranteed in a cloud desktop environment, but could be verified using diagnostic tools.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Connection to the License Server       | <p>MHI Product must be permitted to communicate with the License Server over the Internet:</p> <ul style="list-style-type: none"> <li>Add both of the following URLs to all anti-virus/firewall whitelists: <ul style="list-style-type: none"> <li><a href="http://licensing.pscad.com:80/Licensing">http://licensing.pscad.com:80/Licensing</a></li> <li><a href="net.tcp://licensing.pscad.com:443/Licensing">net.tcp://licensing.pscad.com:443/Licensing</a></li> </ul> </li> <li>If there is a proxy server, then communication to the server must either be permitted <a href="#">through the proxy server</a> or bypassed around the proxy server (see below).</li> </ul> |
| Proxy support                          | <p>Not all proxy servers or proxy configurations are supported.</p> <p>Operation with NTLM, SAML, OIDC and Certificate authentication proxies is not supported at all.</p> <p>If your proxy server or proxy configurations is not supported, the proxy server will need to be bypassed for all licensing traffic.</p>                                                                                                                                                                                                                                                                                                                                                           |
| Activate/Release/Refresh a Certificate | <p>Microsoft® Windows User Privileges</p> <p>Internet connection</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Using Certificates                     | <p>The following sub-folders will be created for certificates:</p> <ul style="list-style-type: none"> <li>Path: C:\Users\&lt;Your_UserId&gt;\AppData\Local\Manitoba Hydro International\Licensing\Licenses</li> <li>Required permissions: FullControl for &lt;Your_UserId&gt;</li> </ul> <p>The following sub-folder should already exist and will be used:</p> <ul style="list-style-type: none"> <li>Path: C:\ProgramData\Microsoft\Crypto\RSA\MachineKeys</li> <li>Required permissions: Read, Write for Everyone</li> </ul>                                                                                                                                                 |
| Supported Protocols                    | TLS 1.0, TLS 1.1, TLS 1.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

### 4. DIAGNOSTIC TOOLS

| Feature           | Requirements                       |
|-------------------|------------------------------------|
| Viewing Log Files | Microsoft® Windows User Privileges |

#### Notes

- Both the 32-bit and 64-bit editions of Visual C++ Redistributables are required on your Windows 64-bit Operating System.
- If this prerequisite software is not already installed, the user will be prompted to install it when Enerplot is installed.

## Offline Plotting & Analysis

### DOCUMENT TRACKING

| Rev. | Description                                                                                                      | Date        |
|------|------------------------------------------------------------------------------------------------------------------|-------------|
| 0    | Initial                                                                                                          | 01/Jun/2026 |
| 1    | Specifying no support for SCCM, PSAppDeploy, or Intune (Chart 2.a)                                               | 02/Jul/2026 |
| 2    | Updating limitations regarding proxy servers (Charts 2.c, 3)<br>Specified HTTP Service for MyUpdater (Chart 2.c) | 07/Aug/2026 |
|      |                                                                                                                  |             |