WEST

Installation Guide 2025

DHI A/S headquarters
Agern Allé 5
DK-2970 Hørsholm
Denmark

+45 4516 9200 Telephone
mike@dhigroup.com
www.mikepoweredbydhi.com

Company Registration No.: DK36466871

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CONTENTS

WEST
Installation Guide

1   Introduction

This installation guide covers the installation of WEST 2025 Update 1 and required 3rd party software.

WEST 2025 Update 1 is available as 64-bit version.

This guide describes the installation process for all the different deployment patterns and required associated 3rd party software.

Important information: Please be aware that all MIKE software (including the DHI License Manager) on the same computer must be installed with the same version. This is due to the dependencies between MIKE software products and our wish to use the latest and technically most advanced development systems.
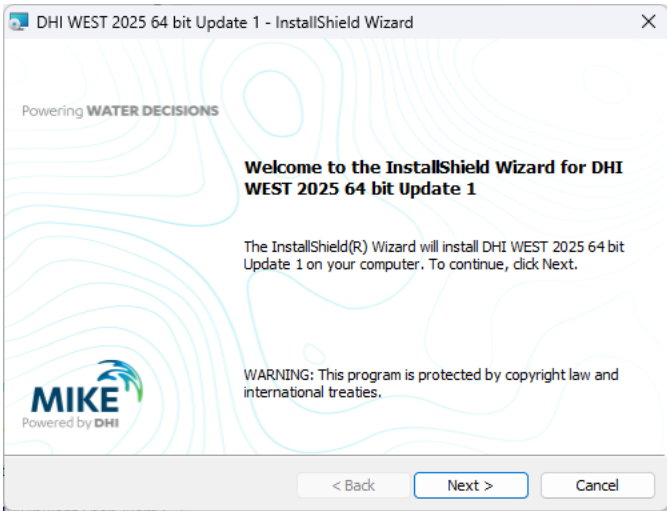
2   Installation Prerequisites
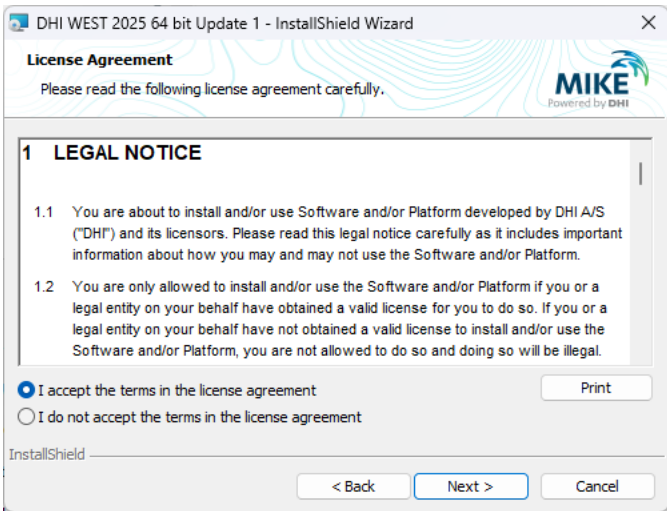
WEST 2025 Update 1 depends on some prerequisites as listed below:
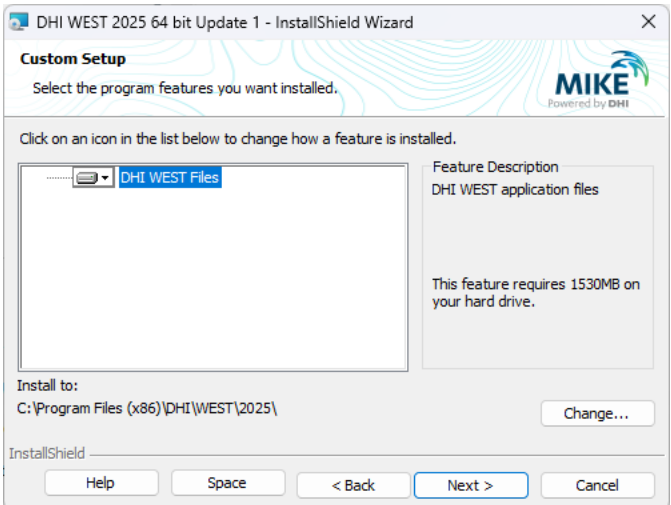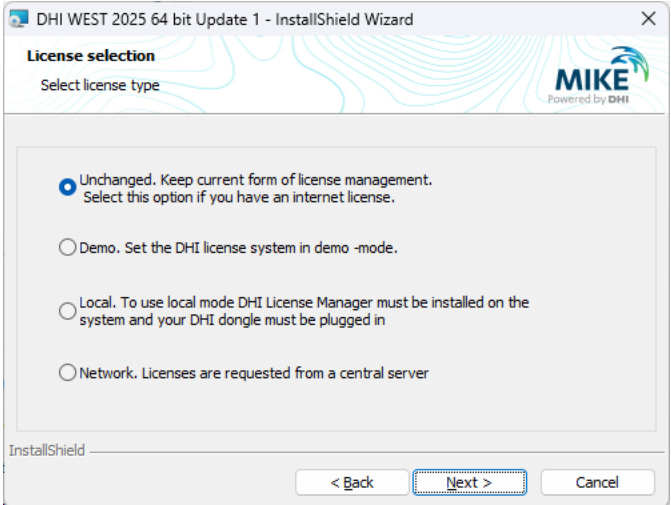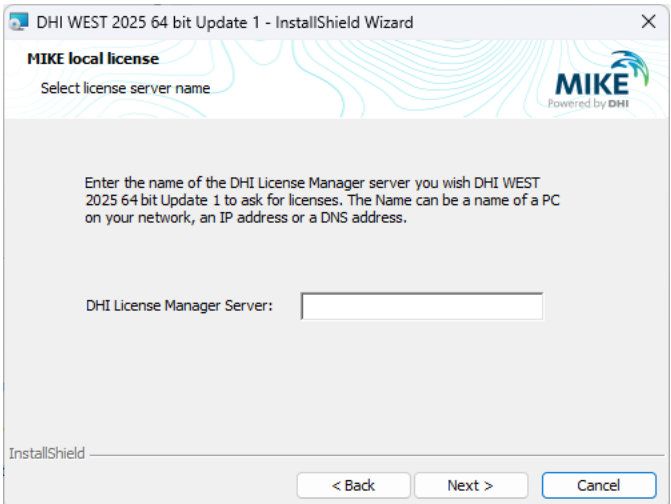
1.   Fully supported Windows operating systems:
   - Windows 11 Pro, version 23H2 (64 bit)
   - Windows 10 Pro, version 22H2 (64 bit)
   - Windows Server 2022, version 21H2

2.   The DHI License Management application, to be downloaded and installed separately. Only required if local license mode (physical dongle) is used.

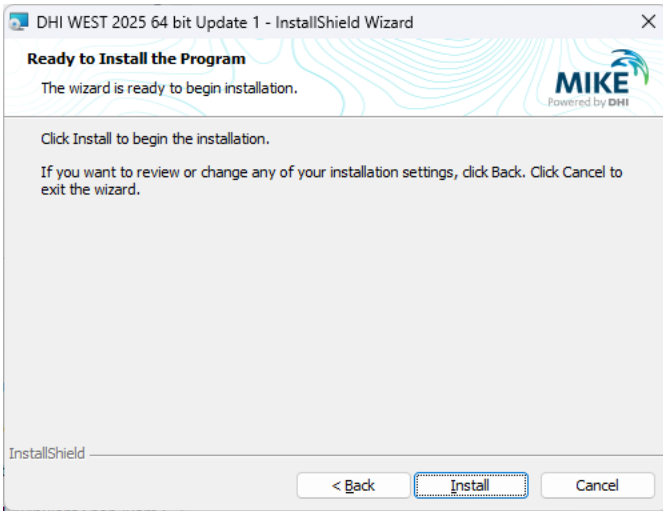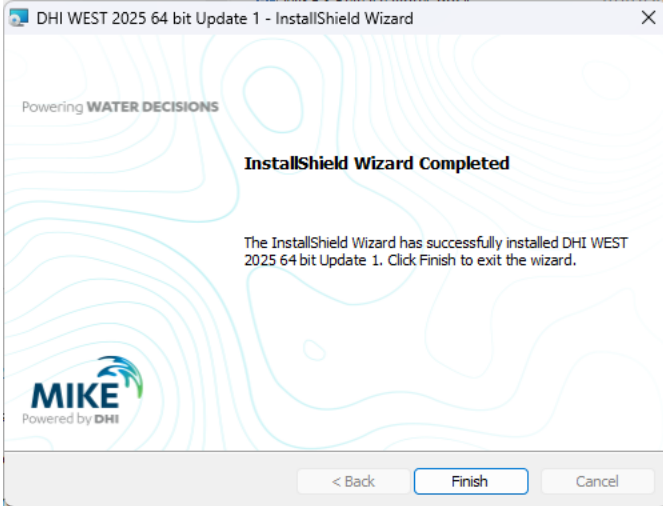3.   Microsoft .NET framework 4.7.2 or later

3 WEST Installation/Upgrade

WEST 2025 Update 1 is installed by running the *Setup.exe* program included in the installation package.

The installation of the WEST is simple and requires no user interactions beyond accepting the license conditions and specifying the installation folder. The following table outlines the installation steps for WEST 2025 Update 1.
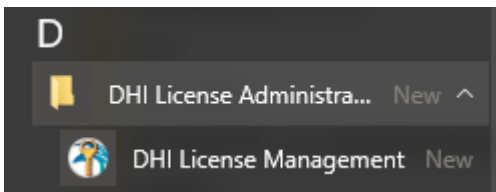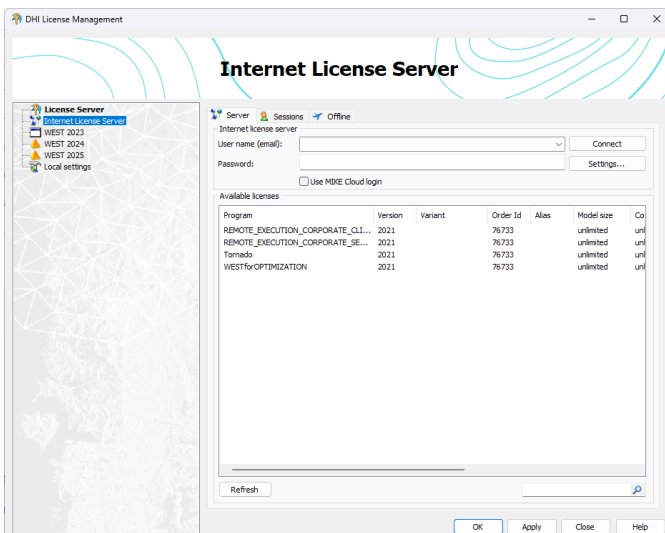
Installation step	Screen
Run the setup.exe file from the installation media/download folder. *Note: Refer to the installation guide of the DHI License Manager for more information about features and license configuration.* **Click** Next	DHI WEST 2025 64 bit Update 1 - InstallShield Wizard Powering **WATER DECISIONS** **Welcome to the InstallShield Wizard for DHI WEST 2025 64 bit Update 1** The InstallShield(R) Wizard will install DHI WEST 2025 64 bit Update 1 on your computer. To continue, click Next. WARNING: This program is protected by copyright law and international treaties. MIKE Powered by DHI < Back Next > Cancel
Accept the license agreement **Click** Next	DHI WEST 2025 64 bit Update 1 - InstallShield Wizard **License Agreement** Please read the following license agreement carefully. MIKE Powered by DHI **1 LEGAL NOTICE** 1.1 You are about to install and/or use Software and/or Platform developed by DHI A/S ("DHI") and its licensors. Please read this legal notice carefully as it includes important information about how you may and may not use the Software and/or Platform. 1.2 You are only allowed to install and/or use the Software and/or Platform if you or a legal entity on your behalf have obtained a valid license for you to do so. If you or a legal entity on your behalf have not obtained a valid license to install and/or use the Software and/or Platform, you are not allowed to do so and doing so will be illegal. ● I accept the terms in the license agreement Print ○ I do not accept the terms in the license agreement InstallShield < Back Next > Cancel

Installation step	Screen
Select the components to install. *Note: If desired, the user can select a different destination folder than the default one by clicking "Change"* **Click** Next	DHI WEST 2025 64 bit Update 1 - InstallShield Wizard **Custom Setup** Select the program features you want installed. Click on an icon in the list below to change how a feature is installed. DHI WEST Files Feature Description DHI WEST application files This feature requires 1530MB on your hard drive. Install to: C:\Program Files (x86)\DHI\WEST\2025\ Change... InstallShield Help Space < Back **Next >** Cancel
Select the type of license available *Unchanged*: if the installation relies on the pre-existing license, or on Interned-based license *Demo:* for testing of the software without a license *Local:* if license is based on physical dongle *Network:* if the license to be used is installed on a remote license server or IP number of the license server. **Click** Next	DHI WEST 2025 64 bit Update 1 - InstallShield Wizard **License selection** Select license type ● Unchanged. Keep current form of license management. Select this option if you have an internet license. ○ Demo. Set the DHI license system in demo -mode. ○ Local. To use local mode DHI License Manager must be installed on the system and your DHI dongle must be plugged in ○ Network. Licenses are requested from a central server InstallShield < Back **Next >** Cancel
Only if 'Network' is selected*: provide IP address or DNS address of the license server.* **Click** Next	DHI WEST 2025 64 bit Update 1 - InstallShield Wizard **MIKE local license** Select license server name Enter the name of the DHI License Manager server you wish DHI WEST 2025 64 bit Update 1 to ask for licenses. The Name can be a name of a PC on your network, an IP address or a DNS address. DHI License Manager Server: [ ] InstallShield < Back Next > Cancel

Installation step	Screen
Launch the installation **Click** Install	DHI WEST 2025 64 bit Update 1 - InstallShield Wizard **Ready to Install the Program** The wizard is ready to begin installation. 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. InstallShield < Back Install Cancel
Click Finish	DHI WEST 2025 64 bit Update 1 - InstallShield Wizard Powering **WATER DECISIONS** **InstallShield Wizard Completed** The InstallShield Wizard has successfully installed DHI WEST 2025 64 bit Update 1. Click Finish to exit the wizard. MIKE Powered by DHI < Back Finish Cancel

4   DHI License File

The DHI license is handled through the DHI License Management software, which can be found under DHI License Administration in the Start Menu.
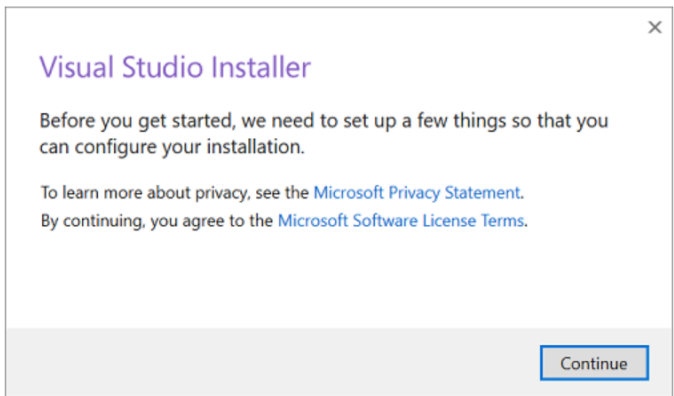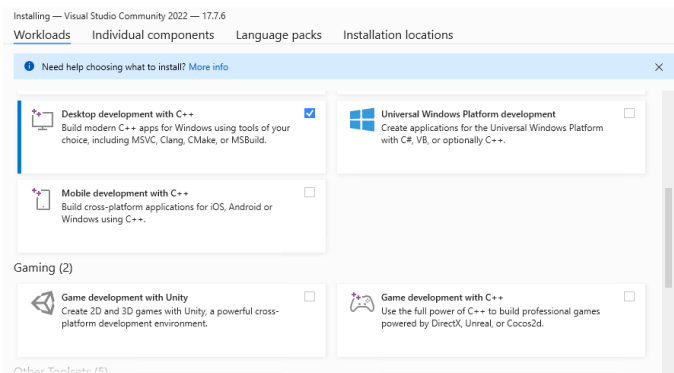
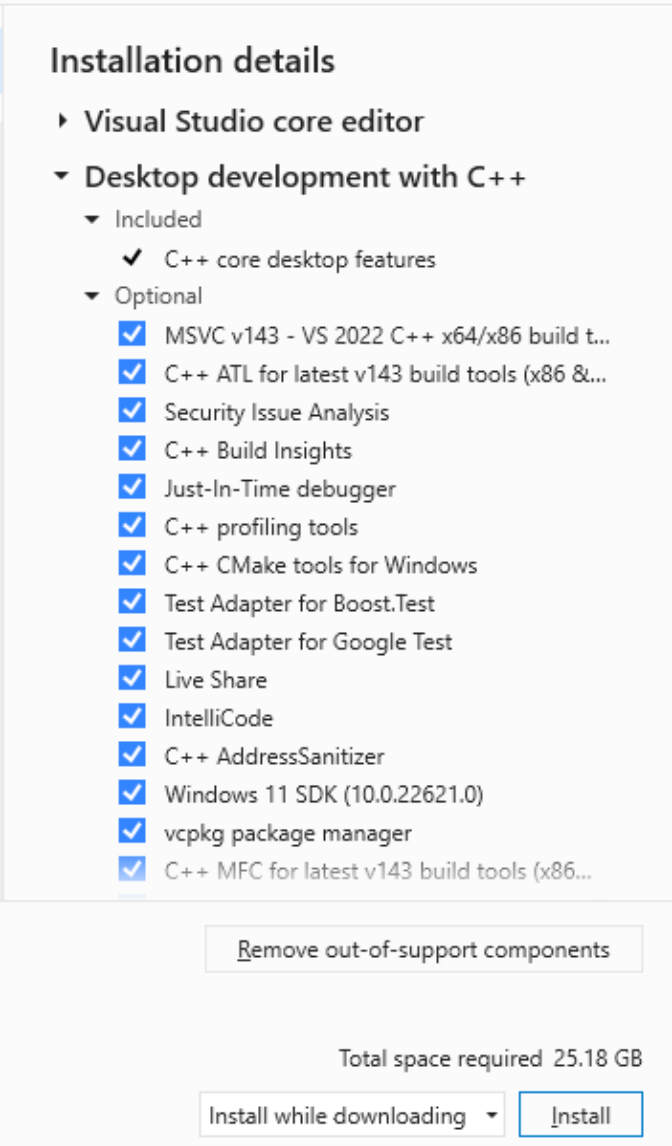| Installation step	Screen
Open the DHI License Management program in the start menu as **administrator** *(right click and select the option 'Run as Administrator')*	
There are three options: • Internet License • Network License • Local License (dongle) Click the **Help** button, for more information or contact your local MIKE Sales representative.	

5 Optional installation and use of external compiler

The default compiler included in the WEST installer is Zig but the user has the option to install and activate a different compiler such as Microsoft Visual C++ (VC++) compiler, which is available as part of Visual Studio Community 2022 suite.

5.1 Visual Studio Community 2022 Installation

Download Visual Studio Community from https://visualstudio.microsoft.com/downloads/ and launch the installation by running *vs_community.exe*.

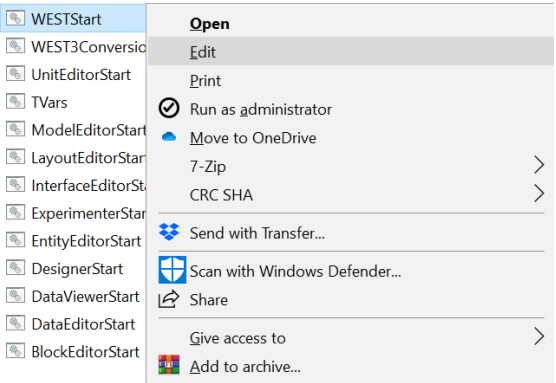| Instructions	Screen
Read Privacy Statement and accept License Terms. *Disclaimer: by accepting Microsoft Software License Terms, the user confirms to comply with terms of use of Visual Studio Community products as 3rd party components.* *License terms can also be found here:* *https://visualstudio.microsoft.com/license-terms/mlt031819/*	
Select the workload **Desktop development with C++**	

Instructions	Screen

In the Installation Details (right hand panel) **select all** Optional features available to ensure installation of build tools and Windows SDK
 	
Click Install
	Installation details
	
	▸ Visual Studio core editor
	
	▾ Desktop development with C++
	   ▾ Included
	      ✓ C++ core desktop features
	   ▾ Optional
	      ☑ MSVC v143 - VS 2022 C++ x64/x86 build t...
	      ☑ C++ ATL for latest v143 build tools (x86 &...
	      ☑ Security Issue Analysis
	      ☑ C++ Build Insights
	      ☑ Just-In-Time debugger
	      ☑ C++ profiling tools
	      ☑ C++ CMake tools for Windows
	      ☑ Test Adapter for Boost.Test
	      ☑ Test Adapter for Google Test
	      ☑ Live Share
	      ☑ IntelliCode
	      ☑ C++ AddressSanitizer
	      ☑ Windows 11 SDK (10.0.22621.0)
	      ☑ vcpkg package manager
	      ☑ C++ MFC for latest v143 build tools (x86...
	
	Remove out-of-support components
	
	Total space required 25.18 GB
	
	Install while downloading ▾ Install

Once the installation is completed, all components can be retrieved in the folder *C:\Program Files\Microsoft Visual Studio\2022\Community*

5.2 Use of alternative compiler

In order to enable the alternative C-compiler, you need to modify the automatically generated batch file **WESTStart.bat** located in the folder …\Public\Documents\DHI\WEST\bin.

Instructions	Screen
Right click on **WESTStart.bat** and **Edit**	WESTStart WEST3Conversio UnitEditorStart TVars ModelEditorStart LayoutEditorStar InterfaceEditorSta ExperimenterStar EntityEditorStart DesignerStart DataViewerStart DataEditorStart BlockEditorStart **Open** Edit Print Run as administrator Move to OneDrive 7-Zip › CRC SHA › Send with Transfer… Scan with Windows Defender… Share Give access to › Add to archive…
Add the following statement as first line: **CALL "C:\Program Files (x86)\Microsoft Visual Studio\2022\Community\VC\Auxiliary\Build\vcvars64.bat"** Mind the use of " " quotes. *Note: The path to vcvars64.bat file may differ depending on the version of Visual Studio installed (in this case, it refers to 2022 version)*	`CALL "C:\Program Files (x86)\Microsoft Visual Studio\2022\Community\VC\Auxiliary\Build\vcvars64.bat"` SET INCLUDE=%INCLUDE%;C:\Program Files (x86)\DHI\WEST\2025\include SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib\win64-msvc;C:\Program Files (x86)\DHI\WEST\2025\third_party\zig\lib SET PATH=C:\Program Files (x86)\DHI\WEST\2025\bin\x64;C:\Program Files (x86)\DHI\WEST\2025\bin;C:\Program Files (x86)\DHI\WEST\2025\third_party\zig;C:\Program Files (x86)\DHI\WEST\2025\third_party\clang-cpp\bin;C:\Program Files (x86)\DHI\WEST\2025\third_party\omc\bin;%PATH% SET TORNADO_CC_PLATFORM=zig SET TORNADO_CC_PATH= SET TORNADO_DATA_PATH=C:\Users\Public\Documents\DHI\WEST\2025 SET TORNADO_ROOT_PATH=C:\Program Files (x86)\DHI\WEST\2025 SET OPENMODELICAHOME=C:\Program Files (x86)\DHI\WEST\2025\third_party\omc START DHI.WEST.exe %* EXIT
In SET TORNADO_CC_PLATFORM, replace **zig** by **win64-msvc**	CALL "C:\Program Files (x86)\Microsoft Visual Studio\2022\Community\VC\Auxiliary\Build\vcvars64.bat" SET INCLUDE=%INCLUDE%;C:\Program Files (x86)\DHI\WEST\2025\include SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib\win64-msvc;C:\Program Files (x86)\DHI\WEST\2025\third_party\zig\lib SET PATH=C:\Program Files (x86)\DHI\WEST\2025\bin\x64;C:\Program Files (x86)\DHI\WEST\2025\bin;C:\Program Files (x86)\DHI\WEST\2025\third_party\zig;C:\Program Files (x86)\DHI\WEST\2025\third_party\clang-cpp\bin;C:\Program Files (x86)\DHI\WEST\2025\third_party\omc\bin;%PATH% SET TORNADO_CC_PLATFORM=`win64-msvc` SET TORNADO_CC_PATH= SET TORNADO_DATA_PATH=C:\Users\Public\Documents\DHI\WEST\2025 SET TORNADO_ROOT_PATH=C:\Program Files (x86)\DHI\WEST\2025 SET OPENMODELICAHOME=C:\Program Files (x86)\DHI\WEST\2025\third_party\omc START DHI.WEST.exe %* EXIT
Optionally, if faster compilation at the expense of slower simulation is desired, add the following to WESTStart.bat: **SET TORNADO_CC_OPTIMIZE=no**	CALL "C:\Program Files (x86)\Microsoft Visual Studio\2022\Community\VC\Auxiliary\Build\vcvars64.bat" SET INCLUDE=%INCLUDE%;C:\Program Files (x86)\DHI\WEST\2025\include SET LIB=%LIB%;C:\Program Files (x86)\DHI\WEST\2025\lib\win64-msvc;C:\Program Files (x86)\DHI\WEST\2025\third_party\zig\lib SET PATH=C:\Program Files (x86)\DHI\WEST\2025\bin\x64;C:\Program Files (x86)\DHI\WEST\2025\bin;C:\Program Files (x86)\DHI\WEST\2025\third_party\zig;C:\Program Files (x86)\DHI\WEST\2025\third_party\clang-cpp\bin;C:\Program Files (x86)\DHI\WEST\2025\third_party\omc\bin;%PATH% SET TORNADO_CC_PLATFORM=`win64-msvc` SET TORNADO_CC_PATH= `SET TORNADO_CC_OPTIMIZE=no` SET TORNADO_DATA_PATH=C:\Users\Public\Documents\DHI\WEST\2025 SET TORNADO_ROOT_PATH=C:\Program Files (x86)\DHI\WEST\2025

Instructions	Screen
| | ```
SET OPENMODELICAHOME=C:\Program Files
(x86)\DHI\WEST\2025\third_party\omc
START DHI.WEST.exe %*
EXIT
``` |
| **Save** WESTStart.bat and launch WEST | |