

Below is a description of the files to help use the program. More detailed instructions, tutorials, and videos are on <https://www.nevergray.biz/next-out>.

File Name	Description
Next-Out.exe	This is the main program.
Next-Out Visio Instructions.vsdX	This sample Visio file explains using the Stencil and building a Visio Template file. The file works with the inferno files included with SES 4.1 and 6.0.
Next-Out Stencils.vssx	Visio stencils to create templates. See demonstration file for use.
Next-Out Excel Data Structure.xlsx	This document explains the data that Next-Sim extracts and calculates from SES output files.
License.txt	Software license agreement

## VERSION LOG

### VERSION 2.1 UPDATES FROM 2.0

#### New Features

1. Summary file now includes sub-segment information (thermal data) and train positions
2. Checks that Excel and Visio files can be written before processing files.

#### Debug

1. Perform SES simulations with restart files in the same directory as the input file.
2. Routes no longer create an empty “\*.out” file
3. Progress bar task updated accurately
4. Reduce crashes when closing the monitor after processing multiple files.

### VERSION 2.0 UPDATES FROM 1.4.B

1. Data captured from abbreviated prints
2. Summary file
3. H5 File format for easier and faster post-processing with Next-Out or Python
4. Updated monitor with progress bar and error reporting
5. Faster post-processing
6. Source code reorganized for easier open-source participation

### VERSION 1.4.B UPDATES FROM 1.3.1

See “Supplementary Train Data Calculation Explanation.docx” for explanation.

### VERSION 1.3.1 UPDATES FROM 1.3

1. Fixed train bug when creating Visio diagrams in v1.3
2. Fix Form 4 issues with no fire or Fire Simulation option equal zero
3. Enable better compiling on all computers by removing hard-coded directories. Let's all work together better!

#### VERSION 1.3 UPDATES FROM 1.2

Section Pressure Changes from supplemental outputs worksheets are added to Route Data. Contributed by Khyati Paghdar.

#### VERSION 1.2 UPDATES FROM 1.1

1. Extracts Section Pressure Changes from supplemental outputs to a new Worksheet “SSP”. Contributed by Khyati Paghdar.

Bug Fix: “Compare two outputs” works again.

#### VERSION 1.1 UPDATES FROM 1.0

1. **Visio Stencil Updates:**
  - a. Air Velocity: Stencil is updated to orange to differentiate it from airflow.
  - b. Damper: Closed dampers use red and black lines instead of only black lines. The program (NO\_visio\_settings.py) has been updated.
2. **NO File:** Creates a Next-Out file which is the output data parsed from an output file. This enables faster Visio processing by using NO Files instead of parsing output files.
3. **Staggered Headways Mean, Max, Min:** Enabling parallel processing speeds up analyses. NO files are read faster than one processor parsing each output file into memory.

**Found bug:** “Compare two outputs” stopped working with NO File update.