

Hi All,

The EA has recently received questions about the issue with creating override using date range using excel interface. Apparently, the Date Picker that is used by excel vBA does not work for many of you. For more information about this, please refer to this post

(<http://www.emi.ea.govt.nz/Forum/thread/vspd-excel-issue-on-windows-10-excel-2013/>)

Even though we have tried our best to update the vSPD excel interface, we can't guarantee that it will work perfectly for every one and the issue with Date Picker is an example.

In this article, I would like to show you a work-around to create override.gdx file using vSPD-online and then you can use it for your stand-alone vSPD.

First, you need to log-in to vSPD-online web page (<http://www.emi.ea.govt.nz/vSPD-online/>) using your account. If you don't have an account yet, please register. It is FREE. Once you have logged-in into vSPD-online, follow these steps to create your override.gdx file

1. Create an override
2. Create a dummy job (Ex: run for one period only) using the override you just created
3. Submit the job to solve and when it finishes, you can download the result zip file. This zip file will contain the override.gdx file that resides in "Override" folder.

Now, you have created the override.gdx file. You can copy this file to your vSPD/Override folder and start using this override file for your study.

Example: Create an override.gdx file that fix MAT energy offer at 10MW @ \$0.09/MWh

1. Click on "Create an override" to start creating override

The screenshot shows the vSPD dashboard interface. At the top, there is a navigation bar with 'EMI', 'vSPD ONLINE', 'FORUM', and 'APIs'. Below this is a 'DASHBOARD' header with the user name 'HI TUONG NGUYEN'. The main content area is titled 'vSPD dashboard'. On the right side, there are three buttons: 'Create a job', 'Create an override' (which is circled in red), and 'Help'. Below the buttons, there are tabs for 'EXISTING JOBS' and 'EXISTING OVERRIDES'. A search bar and a 'My jobs only' checkbox are also visible. The main table displays a list of overrides with columns for NAME, OVERRIDE, DESCRIPTION, CREATED BY, CREATED DATE, FINISHED, DURATION, and DOWNLOAD.

NAME	OVERRIDE	DESCRIPTION	CREATED BY	CREATED DATE	FINISHED	DURATION	DOWNLOAD
+ ILR Override used (1x TP)	Interruptible load reserve override	Test	Le...	6/04/2017	06/04/17 12:27	4 seconds	↓
+ test_	SI generation	test	...	4/04/2017	04/04/17 17:24	56 seconds	↓
+ HLY ON	HLY	tinkering	...	27/03/2017	27/03/17 16:30	10 minutes and 24 seconds	↓
+ Provisional_20160215_All		test	Tuong Nguyen	16/02/2017	16/02/17 17:02	5 minutes and 7 seconds	↓

2. Enter name and description and then click on “Create a new override component”

The screenshot shows the EMI Electricity Authority dashboard. At the top, there are navigation links for EMI, vSPD ONLINE, FORUM, and APIs. The user is logged in as HI TUONG NGUYEN. The main heading is 'Create override' with a 'Help' button. The form contains two mandatory fields: 'Name*' with the value 'MAT_Offer_Overrides' and 'Description*' with the value 'Override MAT offers over a date range'. Below the form, there is a 'Component summary' section stating 'No override components have been added yet.' and an 'Add a component' section with a '+ Add a component' button and a sub-section 'Create a new override component' with a plus icon.

3. Select “Energy offer” for “Type of override”, select the date range over that you would like to apply this override, and then click “Next”

The screenshot shows a dialog box titled 'Create a new override component'. It contains the following fields and options: 'Create an override component' heading, 'Type of override*' dropdown menu with 'Energy offer' selected, 'Time frame for override*' section with radio buttons for 'Use a date range' (selected) and 'Use trading period/s', 'Date range*' section with a date range input field showing '25 Apr 2017 - 01 May 2017', 'From:' dropdown menu with 'TP1' selected, and 'To:' dropdown menu with 'TP50' selected. At the bottom right, there are 'Cancel' and 'Next' buttons.

4. Select the offer you would like to override (MAT1101 MAT0) and enter the new offer values (MW and Price) and then click “Next”

Create override component: Energy offer

Available offers

- KPO1101 KPO0
- KUM0661 KUM0
- MAN2201 MAN0
- MAT1101 ANI0
- MAT1102 MAT0
- MHO0331 MHO0
- MKE1101 MKE1

Selected offers

- MAT1101 MAT0

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Double clicking on the nodes selects or deselects

Tranche 1	
Quantity, MW	Price, \$/MWh
<input type="text" value="10"/>	<input type="text" value="0.09"/>
Tranche 2	
Quantity, MW	Price, \$/MWh
<input type="text" value="0"/>	<input type="text" value="0"/>
Tranche 3	
Quantity, MW	Price, \$/MWh
<input type="text" value="0"/>	<input type="text" value="0"/>
Tranche 4	
Quantity, MW	Price, \$/MWh
<input type="text" value="0"/>	<input type="text" value="0"/>
Tranche 5	
Quantity, MW	Price, \$/MWh
<input type="text" value="0"/>	<input type="text" value="0"/>

[Back](#)

[Next](#)

5. A table will display the override you just created. If you are ok with this, click “Add this component”

Energy offer override component summary

DATE & TIME	LOCATION	TYPE	TRANCHE	VALUE
TP1 * TP50	MAT1101 MAT0	i_GenerationMWOffer	t1	10
TP1 * TP50	MAT1101 MAT0	i_GenerationOfferPrice	t1	0.09
TP1 * TP50	MAT1101 MAT0	i_GenerationMWOffer	t2	0

[+ Show all components](#)

[↓](#) Use the currently selected options to create a file for download [CSV](#) | [Excel](#)

[Back](#) **Add this component**

6. The “Component summary” will list all the override types that are applied in this override. In this case, only Energy offer is overridden. Click “Submit” to create and store this override in vSPD-online

Component summary

Energy offer >

DATE & TIME	LOCATION	VALUE	
TP1 * TP50	MAT1101 MAT0	{i_GenerationMWOffer, t1, 10}, {i_GenerationOfferPrice, t1, 0.09}, {i_GenerationMWOffer, t2, 0}, {i_GenerationOfferPrice, t2, 0}, {i_GenerationMWOffer, t3, 0}, {i_GenerationOfferPrice, t3, 0}, {i_GenerationMWOffer, t4, 0}, {i_GenerationOfferPrice, t4, 0}, {i_GenerationMWOffer, t5, 0}, {i_GenerationOfferPrice, t5, 0}	

[↓](#) Use the currently selected options to create a file for download [CSV](#) | [Excel](#)

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[Cancel](#) **Submit**

7. Now, "create a job" to run using the created override.

The screenshot shows the vSPD dashboard interface. At the top, there is a navigation bar with 'EMI', 'vSPD ONLINE', 'FORUM', and 'APIs'. Below this is a dark blue header with 'DASHBOARD' on the left and 'HI TUONG NGUYEN' on the right. The main heading is 'vSPD dashboard'. There are two buttons: 'Create a job' (circled in red) and 'Create an override', along with a 'Help' button. Below the buttons is a search bar labeled 'Search overrides...' and a checkbox for 'My overrides only'. A table lists existing overrides with columns: NAME, DESCRIPTION, CREATED BY, CREATED DATE, and TIMES USED. The first row shows 'MAT_Offer_Overrides' with a description 'Override MAT offers over a date range', created by 'Tuong Nguyen' on '2/05/2017', and has been used 0 times.

8. Enter the name, description and select the override from exiting override list for the job.

The screenshot shows the 'Create job' form. At the top, there is a navigation bar with 'EMI', 'vSPD ONLINE', 'FORUM', and 'APIs'. Below this is a dark blue header with 'DASHBOARD' on the left and 'HI TUONG NGUYEN' on the right. The main heading is 'Create job'. There is a 'Help' button. The form has two main sections. The first section has a 'Name*' field with the value 'dummy1' and a 'Description*' field with the value 'dummy run used to create override [gdx](#) file'. The second section is titled 'Use an existing override*' and has a dropdown menu with 'MAT_Offer_Overrides (0 times used)' selected. Below the dropdown is a 'Create override' link and a note: 'Once the override is created, you will return to this page to continue creating this job. The information on this page will be saved.' Below this is 'Chosen override: MAT_Offer_Overrides' and 'Description: Override MAT offers over a date range'. At the bottom, there is a table with columns: DATE & TIME, LOCATION, TYPE, TRANCHE, and VALUE. The table has three rows of data. Below the table is a '+ Show all components' link.

DATE & TIME	LOCATION	TYPE	TRANCHE	VALUE
TP1 * TP50	MAT1101 MAT0	i_GenerationMWOffer	t1	10
TP1 * TP50	MAT1101 MAT0	i_GenerationOfferPrice	t1	0.09
TP1 * TP50	MAT1101 MAT0	i_GenerationMWOffer	t2	0

9. Select only one date and one trading period and “Submit the job to run quickly

Dates to process
 Note: this range must be less than or equal to 7 days
 01 May 2017 - 01 May 2017

Trading periods to process
 All Range Specific

Available trading periods

- TP2
- TP3
- TP4
- TP5
- TP6
- TP7
- TP8
- TP9

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Selected

- TP1

Double clicking on the nodes selects or deselects them

[Cancel](#) [Submit](#)

10. When the job is completed, an email will be sent to your registered email.

EXISTING JOBS	EXISTING OVERRIDES	Search jobs...						My jobs only
NAME	OVERRIDE	DESCRIPTION	CREATED BY	CREATED DATE	FINISHED	DURATION	DOWNLOAD	
- dummy1	MAT_Offer_Overrides	dummy run used to create override.gdx file	Tuong Nguyen	2/05/2017	02/05/17 10:32	17 seconds	↓	

Date	Trading periods solved	Objective function value (\$)	System violation (MW per trading period)
01/05/2017	1	\$-31,296,788.44	37.47

Inbox - Tuong.Nguyen@ea.govt.nz - Microsoft Outlook

Search Inbox (Ctrl+E)

From	Subject	Received	Size	Categ...
Date: Today				
emi@ea...	EMI vSPD-online: job completed - dummy1	Tue 2/05/2017 10:34...	29 KB	

11. You can down load the result by clicking on the download symbol

Your latest job is complete! "Download 20170502_dummy1.zip"

Search jobs...						My jobs only
DESCRIPTION	CREATED BY	CREATED DATE	FINISHED	DURATION	DOWNLOAD	
dummy run used to create override.gdx file	Tuong Nguyen	2/05/2017	02/05/17 10:32	17 seconds	↓	

Jobs solved	Objective function value (\$)	System violation (MW per trading period)
	\$-31,296,788.44	37.47

12.

13. Or you can down load the result by clicking on the “Download result” link in the email.

EMI vSPD-online: job completed - dummy1

emi@ea.govt.nz

 If there are problems with how this message is displayed, click here to view it in a web browser.

Sent: Tue 2/05/2017 10:33 a.m.

To: Tuong Nguyen

Hi Tuong Nguyen,

Your vSPD-online job has completed with the details:

Name: dummy1
Start date: 02/05/2017 10:32
Duration: 17 seconds
[Download result](#)

Job summary

Date	Trading periods solved	Objective function value (\$)	System violation (MW per trading period)
01/05/2017	1	\$-31,296,788.44	37.47