

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 two buttons: 'Create a job' and 'Create an override', with the latter circled in red. Below these buttons is a search bar and a 'My jobs only' checkbox. The main table has two tabs: 'EXISTING JOBS' and 'EXISTING OVERRIDES'. The table columns are: NAME, OVERRIDE, DESCRIPTION, CREATED BY, CREATED DATE, FINISHED, DURATION, and DOWNLOAD. The table contains four rows of data.

NAME	OVERRIDE	DESCRIPTION	CREATED BY	CREATED DATE	FINISHED	DURATION	DOWNLOAD
+ ILR Override used (1x TP)	Interruptible load reserve override	Test	Tuong Nguyen	6/04/2017	06/04/17 12:27	4 seconds	↓
+ test_	SI generation	test	Tuong Nguyen	4/04/2017	04/04/17 17:24	56 seconds	↓
+ HLY ON	HLY	tinkering	Tuong Nguyen	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: EMI, vSPD ONLINE, FORUM, and APIs. Below this is a header bar with 'DASHBOARD' on the left and 'HI TUONG NGUYEN' on the right. The main heading is 'Create override' with a 'Help' button. The form has 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 a '+ Add a component' section with the instruction 'select from the three methods below'. A large blue button labeled 'Create a new override component' with a plus icon is visible.

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 modal titled 'Create a new override component'. Inside, there is a section 'Create an override component' with a 'Type of override*' dropdown menu set to 'Energy offer'. Below this is a 'Time frame for override*' section with two radio buttons: 'Use a date range' (selected) and 'Use trading period/s'. Under 'Use a date range', there is a 'Date range*' field showing '25 Apr 2017 - 01 May 2017'. Below the date range, there are 'From:' and 'To:' labels with dropdown menus set to 'TP1' and 'TP50' respectively. 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

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Selected offers

MAT1101 MAT0

Double clicking on the nodes selects or deselects

Tranche 1

Quantity, MW

10

Price, \$/MWh

0.09

Tranche 2

Quantity, MW

0

Price, \$/MWh

0

Tranche 3

Quantity, MW

0

Price, \$/MWh

0

Tranche 4

Quantity, MW

0

Price, \$/MWh

0

Tranche 5

Quantity, MW

0

Price, \$/MWh

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](#)

[Back](#)

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

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



EMI vSPD ONLINE FORUM APIs

DASHBOARD HI TUONG NGUYEN


vSPD dashboard

☒ Create a job ☒ Create an override [Help](#)

EXISTING JOBS EXISTING OVERRIDES ☐ My overrides only

NAME	DESCRIPTION	CREATED BY	CREATED DATE	TIMES USED
MAT_Offer_Overrides	Override MAT offers over a date range	Tuong Nguyen	2/05/2017	0

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



EMI vSPD ONLINE FORUM APIs

DASHBOARD HI TUONG NGUYEN

Create job

[Help](#)

Name* * Mandatory fields

Description *

Use an existing override *

MAT_Offer_Overrides (0 times used) ▼

[Create override](#)

Once the override is created, you will return to this page to continue creating this job. The information on this page will be saved.

Chosen override: MAT_Offer_Overrides

Description: Override MAT offers over a date range

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](#)

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

Trading periods to process
☐ All ☐ Range ☒ Specific

Available trading periods

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

Double clicking on the nodes selects or deselects them

>> <<

Selected

- TP1

[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: emi@ea... EMI vSPD-online: job completed - dummy1

Date: 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	↓


Trading periods 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