

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.

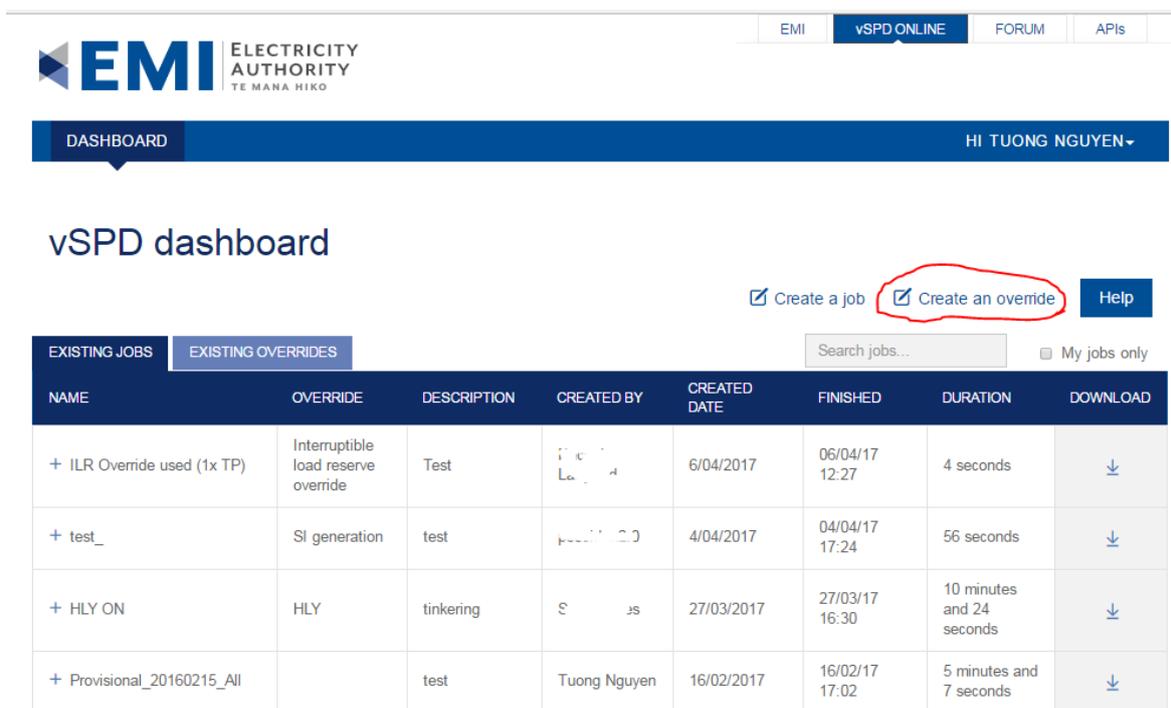
First, you need to log-in to vSPD-online web page (<http://www.emi.ea.govt.nz/vSPD-online/>) using your account. If you don't have an account yet, please register. It is FREE. Once you have logged-in into vSPD-online, follow these steps to create your override.gdx file

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 tabs for 'EMI', 'vSPD ONLINE', 'FORUM', and 'APIs'. Below the navigation is a header bar with 'DASHBOARD' on the left and 'HI TUONG NGUYEN' on the right. The main content area is titled 'Create override' with a 'Help' button. The form has two main sections: 'Name*' and 'Description*'. The 'Name*' field contains 'MAT_Offer_Overrides'. The 'Description*' field contains 'Override MAT offers over a date range'. Below the form, there is a 'Component summary' section with the text 'No override components have been added yet.' and an 'Add a component' section with a '+ Add a component' button and the text 'select from the three methods below'. A large blue button labeled 'Create a new override component' with a plus icon is also 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 dialog box titled 'Create a new override component'. It contains the following fields and options: 'Create an override component' section with 'Type of override*' dropdown set to 'Energy offer'; '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 set to 'TP1'; 'To:' dropdown set to 'TP50'; and 'Cancel' and 'Next' buttons at the bottom right.

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"/>

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[Next](#)

- 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**

- 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' and 'HI TUONG NGUYEN'. The main heading is 'vSPD dashboard'. On the right, there are three buttons: 'Create a job' (circled in red), 'Create an override', and 'Help'. Below the buttons is a search bar labeled 'Search overrides...' and a checkbox for 'My overrides only'. A table with the following columns is visible: NAME, DESCRIPTION, CREATED BY, CREATED DATE, and TIMES USED. The first row of the table contains: MAT_Offer_Overrides, Override MAT offers over a date range, Tuong Nguyen, 2/05/2017, and 0.

8. Enter the name, description and select the override from existing 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' and 'HI TUONG NGUYEN'. The main heading is 'Create job'. On the right, 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 has a 'Use an existing override*' dropdown menu with the value 'MAT_Offer_Overrides (0 times used)'. 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 a 'Chosen override: MAT_Offer_Overrides' and a 'Description: Override MAT offers over a date range'. At the bottom, there is a table with the following columns: DATE & TIME, LOCATION, TYPE, TRANCHE, and VALUE. The table contains three rows: 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. At the bottom left, there is a '+ Show all components' link.

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

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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		

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

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

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