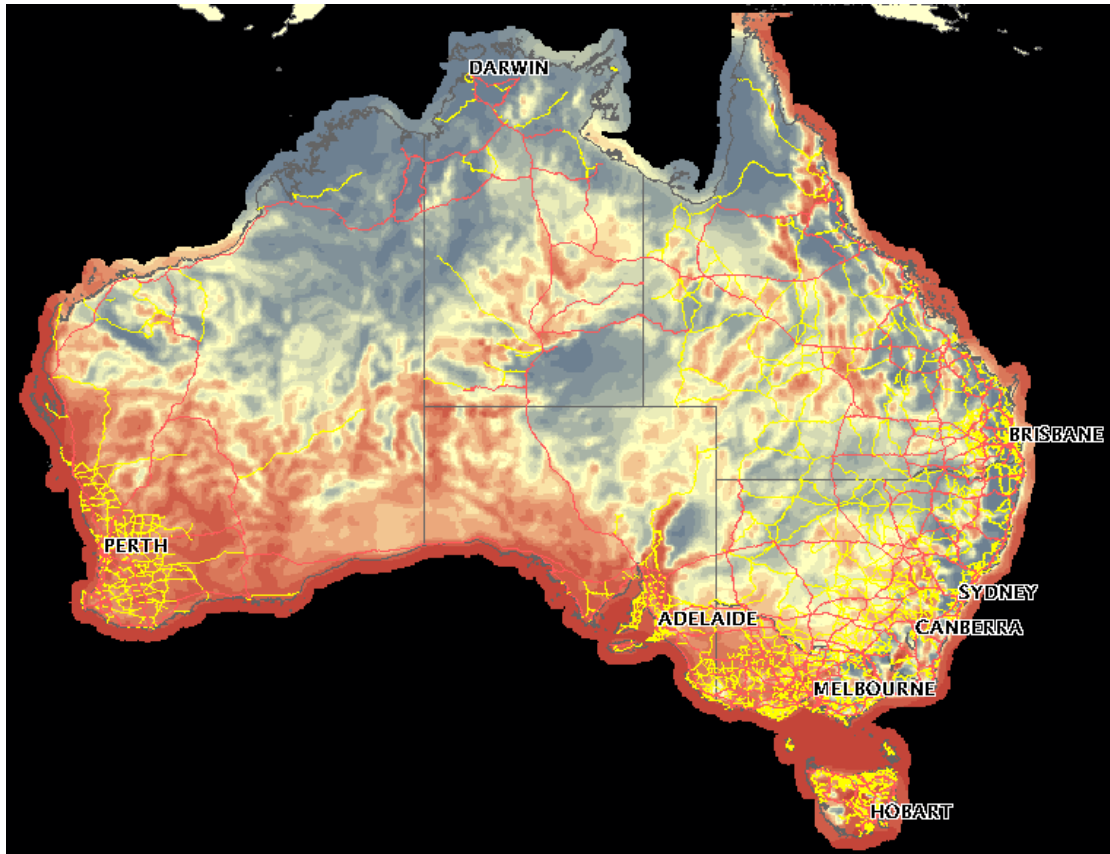


Introduction

The Renewable Energy Atlas can be used to explore Australia's renewable energy resources (for example, wind, solar or wave energy) at varying scales. It allows you to produce maps in your browser window and, if needed, on your printer or as a PDF document.

The Application





When the application first opens you are presented with a wind map but this is only one of many themes available in the Atlas. The key to changing the information displayed by the map is the toolbar to the left above the map.


Tools





The toolbar consists of a series of buttons. Each button can be clicked to select the tool associated with it. In the picture above, the first button has been selected to show the state of the toolbar when the Atlas is first started. The basic tools needed to use the program are:

 **Zoom in:** After selecting this tool, you can zoom in to a smaller area of the map to see more detail. Once you decide the new extent you require or area you want to zoom to, click on the map and hold the mouse button down while you drag out a rectangle by moving the mouse diagonally. When you release the button, the map will zoom in to the rectangle. Alternatively, you can simply click on the map to zoom in by a fixed amount.

 **Zoom out:** After selecting this tool, click on the map to zoom out to a larger area of the map.

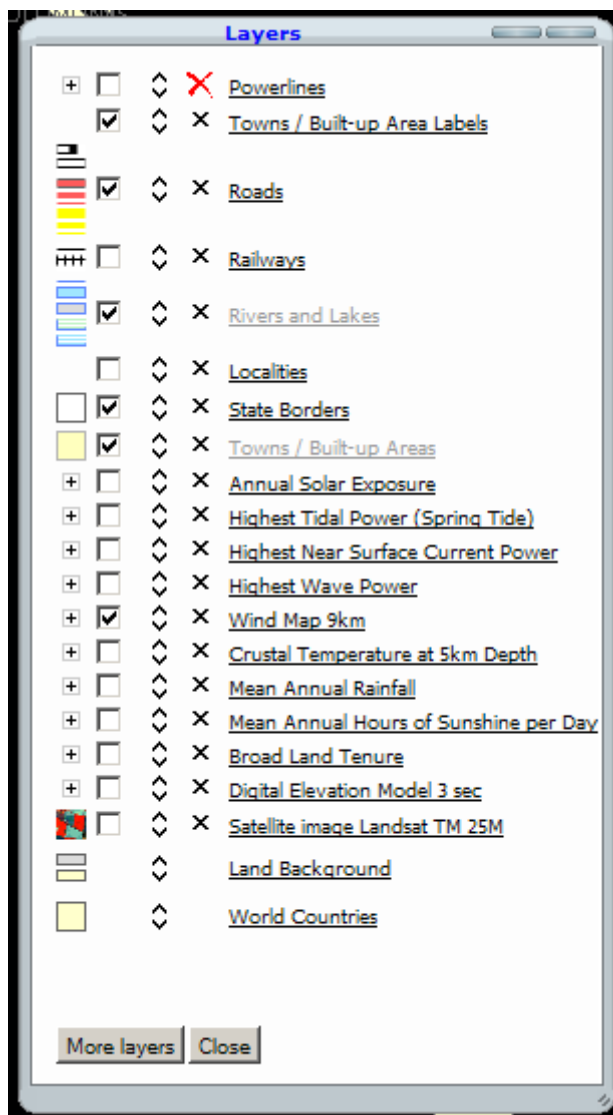
 **Pan:** Use this tool to view an area that is just outside the currently visible area. After selecting this tool, click on the map and hold the mouse button down then drag on the map in the direction that you want it to move. The Atlas will redraw the new area.

 **Full Extent:** Clicking on this tool will zoom the map all the way out to the full extent of the Atlas giving you a map that shows all of Australia.

 **Layer List:** Use this tool to access other layers or themes in the Atlas as well as legends and additional information on the layers being displayed (i.e. metadata).

The other tools will be explained later.

Layers





While the zoom and pan tools can be used to change the area being displayed, the Layers list is used to change the information being displayed. Alongside each layer in the list is a checkbox. Each layer can be turned on or off by adding or removing a tick from its checkbox.

Legend

It is also in the layers list that you'll find legends for each layer. Some of the legends have been collapsed to save space. A collapsed legend is denoted by a plus sign in a box: . To view the collapsed legend, click the plus sign. To collapse the legend again click on the resulting minus sign.

The default layers that appear on the layers are not all of the layers available in

the Atlas. Additional layers can be accessed by clicking the More layers button at the bottom of the layers list box. This will open another box that allows you to add additional layers to the layers list. Expand the items and tick the boxes of the layers you want to add then click OK. Note that adding layers from the Add Layer box does not add the layers to the map. It only adds the layers to the layer list. To have the new layers appear on the map, you then have to turn them on in the usual manner in the Layers list. Layers can also be removed from the Layers list by clicking the cross beside the layer in the layers list.

When you add multiple layers to the map, imagine these layers literally as separate layers sitting one on top of another. The layers that appear in front are the ones nearest to the top of the layers list. It is possible that information you want to see is hidden by other layers switched on above it. One way of overcoming this is to turn off the active layers above the information you want to see. It is also possible to change the display order of the layers in the map. You'll notice in the layer list a symbol alongside each layer that looks like this: . This can be used to move layers in the layer list to change the display order. Simply drag and drop the  icon for a layer to move it to a new position in the display sequence. The map will automatically redraw to reflect the changed display order.

The layer list is also the way to access information about the data used to draw the layers in the Atlas. Each underlined layer name is a link to metadata about the layer. Some basic information is available by holding your mouse over the layer name. Click on the name to access comprehensive metadata for the layer including the owner of the data.

Print



The print tool allows you to send a map to your printer or generate an Adobe PDF document of the map. Clicking on this tool will cause a box to open where you can select from A4 or A3 sized document, portrait or landscape and the output format; print or PDF. There's also an area where you can add your own comment to appear on the printed map.

Advanced Tools

Additional tools are available to perform more advanced operations:




Previous Extent: This tool works like the back button in your web browser. Clicking it will cause the Atlas to go back to the previously viewed extent.





Next Extent: This tool works like the forward button in your web browser. Clicking it will cause the Atlas to go forward to the next viewed extent.



Find: This tool allows you to search for a location. Clicking on this tool will cause a search box to open. The box contains two tabs for address and geographic location. Enter the details and click search to find the location.

 Identify: Use this tool to identify features and values on the map. When you click this tool a box will open where you can choose the layer in which you want to identify features or values. Select the layer of interest then click on the map. If available, the box will show the value for the feature or layer.

 Measure Distance: As the name suggests, you can use this tool to measure distances on the map. After selecting this tool, click on the map to begin measuring. Double click on the map to finish drawing the line and obtain a final distance.

 Help: Additional help with the application.

There are some other features outside the toolbar that give you other ways to control the map.

Directional Panning: Small arrows alongside the map allow you to pan the map incrementally in the direction indicated.

Overview Map: As you zoom to different areas, an overview map in the bottom left corner of the page shows your current location in Australia. You can pan to new locations by clicking on the overview map.

Scale Entry: A field alongside the scalebar at the bottom of the map shows the current map scale. You can enter a new scale and hit enter to have the map redraw to a new scale, changing the zoom level.