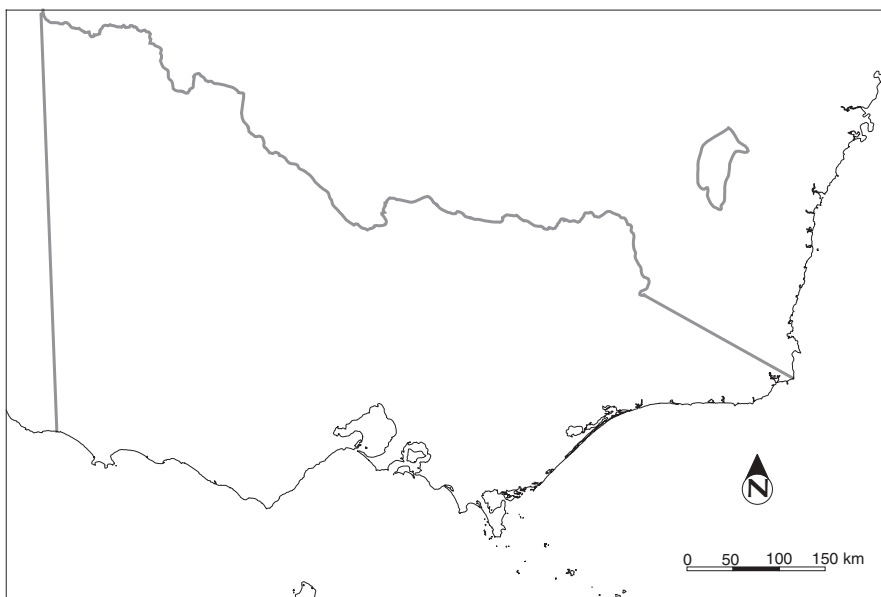


DATELINE: January 2004. The Victorian government has said that more wind farms to generate power are likely to be placed along the Victorian coast. A coastal wind farm, with 120 turbines, has already been approved for Cape Bridgewater near Portland on Victoria's western coast. A study by CSIRO lists the twelve windiest places (council shires) in Victoria, shown in the box below. Some possible sites have been ruled out because they are in national parks, are too far from the electricity grid or have inaccessible terrain.

BAW BAW — Tall, dense trees make it unsuitable
EAST GIPPSLAND — Highest wind speeds are on the far eastern coast near **Woodside** and **Yarram**.
GLENELG — around **Mount Richmond**. Highest average wind speeds are on the coast near Mount Richmond.
HEPBURN — near **Daylesford** and **Hepburn Springs**. Situated inland and near electricity network.
MACEDON RANGES — near **Macedon**. Near the electricity grid.
MITCHELL — around **Seymour** and **Puckapunyal**. Not far from the grid.
MOORABOOL — around **Elaine**. Also near the grid.
MOYNE — South-west coast near **Yambuk** and **Port Fairy**.
MURRINDINDI — around **Alexandra** and **Eildon**. Tall, dense trees make it unsuitable.
SOUTH GIPPSLAND — around **Foster**. Exposed to coastal winds but **Wilson's Promontory** national park nearby.
STRATHBOGIE — Distant from grid.
WELLINGTON — around **Bengworden** and **Lake Victoria**. Much of the coastal lands with required high wind speeds is in park area.

- Using the information on pages 32–33 of the *Jacaranda Atlas Fifth Edition*, answer the following:
 - How is wind power generated? _____
 - Where are wind farms currently located in Australia, according to the map? _____
 - What are other sources of alternative power? _____
- Using the blank map of Victoria below, and the *Jacaranda Atlas Fifth Edition* pages 80–81 and 82–83, mark on all the locations identified by the CSIRO as potential wind farm sites. These are in bold type in the box above. Add the Cape Bridgewater site. Mark on any National Parks near the sites. Develop a symbol to categorise the sites according to their suitability and provide a key to explain your symbols. Give your map a title.



- Describe the distribution pattern of the wind farm sites. Is there an explanation for the pattern, i.e. close to the coast or mountains? _____