Wind 101/Ross Island Wind Energy Overview

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Abstract

A talk at the Tatty Flag on the Wind Power and the Ross Island Wind Energy System.



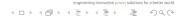
Who is Powercorp?

Based in the Northern Territory.





- ► Based in Darwin, NT.
- Building systems for isolated grids, mines, voltage support.
- ► Technologies:
 - ► Distributed Control.
 - Power Electronics.
 - ► Power Systems.
- ► Products include: Distributed controllers, Powerstore, ..

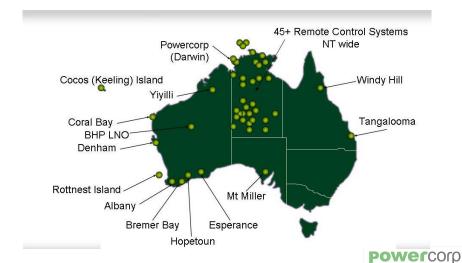


powercorp

Systems within Australia

Who?

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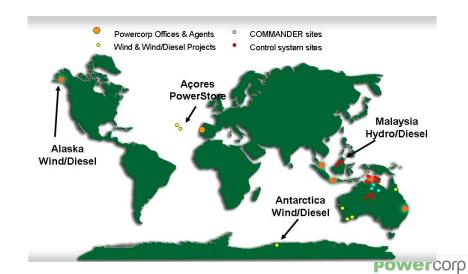




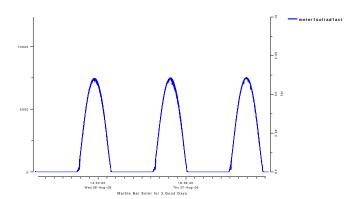
Other Systems

Who?

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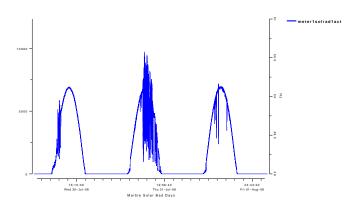
Solar Good Days







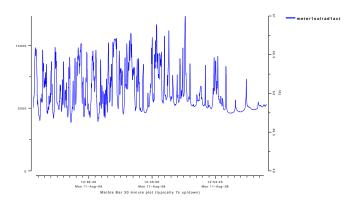
Solar Bad Days







Solar Bad Days







The problems:

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RIWE Overview



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The answers:

- Install less Wind Power.
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- Limit the Wind Power Output by pitching, etc.
- ► Dump the excess power.



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- ▶ Dump the excess power.
- ► Store the excess power.



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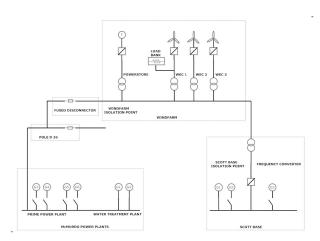
- Install less Wind Power.
- Limit the Wind Power Output by pitching, etc.
- Dump the excess power.
- Store the excess power.
- ▶ Use the excess power when you have it!





RIWE Overview

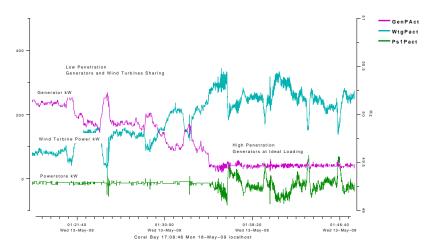
RIWE Overview







Coral Bay Performance







RIWE Overview

The future?

► More wind on Ross Island.

The future?

Who?

- ► More wind on Ross Island.
- ▶ More load control.





The future?

- ► More wind on Ross Island.
- ► More load control.
- ▶ Nico to Marble Bar.





- ► More wind on Ross Island.
- More load control.
- Nico to Marble Bar.
- ► Thanks to the many helpful, even if a little strange people of Ross Island.

