

# Southern Exposure: an overview of PV/Diesel in Malaysia and Australia

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Abstract

A summary of efforts in Malaysia and Australia in the PV/Diesel/Battery area with Malaysia mostly winning (no comment re Alaska).



# Introduction

1. Australia
2. Malaysia
3. Sky Cameras and Solar Forecasting

This talk is completely based on information from learned colleagues.



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*“Remember that every view, is based on where you are looking from” – Phil Maker*



# ARENA

ARENA [www.arena.gov.au](http://www.arena.gov.au) as approximately \$2.5 billion in funding to:

1. Fund renewable energy projects
2. Support research and development activities
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Projects larger than 26M\$::

- ▶ AGL Solar Project 166M\$
- ▶ Australian Solar Thermal Research Initiative 35M\$
- ▶ Australia-US Institute for Advanced Photovoltaics 33M\$
- ▶ Cooper Basin Enhanced Geothermal Systems Heat/Power 59M\$
- ▶ Kogan Creek Solar Boost project 34M\$
- ▶ Moree Solar Farm 101M\$
- ▶ NT SETuP Program 27M\$ (or 55M\$ total:bloody southerners)



# Northern Territory: SETuP

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- ▶ >30 sites medium penetration with 9MW PV and no storage. Intend to reach 60% peak penetration/contribution with a fuel saving of around 15%.
- ▶ 1 site high penetration running diesel off (or 200% penetration in Alaskan) with a fuel saving of around 50%.
- ▶ Aiming to change the organisation and the technology.





# Malaysia

An overview of Malaysia.including 70% average penetration, etc. ...



# Sky Cameras

Yet another model for procurement (for us at least:<sup>1</sup>).

- ▶ 3 x Trial Systems at a target price of 15k\$.for 3..6 months.

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<sup>1</sup>Thanks to Tim Powe



# Sky Cameras

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- ▶ 3 x Trial Systems at a target price of 15k\$.for 3..6 months.
- ▶ Everyone must provide a price for a:
  - ▶ Trial system for 12 months.
  - ▶ Rollout out of from 1..10 units over the next 2 years.

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<sup>1</sup>Thanks to Tim Powe



# Sky Cameras: why

Why we do it, who does it and how they do it.  
All based on industrial input.



# So who to talk to

Who are the suppliers



# Conclusion

Nothing too controversial but:

- ▶ References to various projects.



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# Conclusion

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*“Economics are the method; the object is to change the heart and soul” – Margaret Thatcher*

