

# Double Glaze Matters

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## A Mighty Force

This Sunday, StopAdani Eltham is hosting a special screening of the film "#StopAdani A Mighty Force" followed by discussion. Visit

[www.facebook.com/events/1603806699668050/](http://www.facebook.com/events/1603806699668050/) for more information and to register.

Also, StopAdani Melbourne has an information night on Thursday March 8<sup>th</sup> at 6:30 in the city. This evening will explain more about the work of Frontline Action on Coal, the group organising Non Violent Direct Action against Adani in Qld. For more information, visit and register at:

[www.facebook.com/events/1227489890717524/](http://www.facebook.com/events/1227489890717524/).

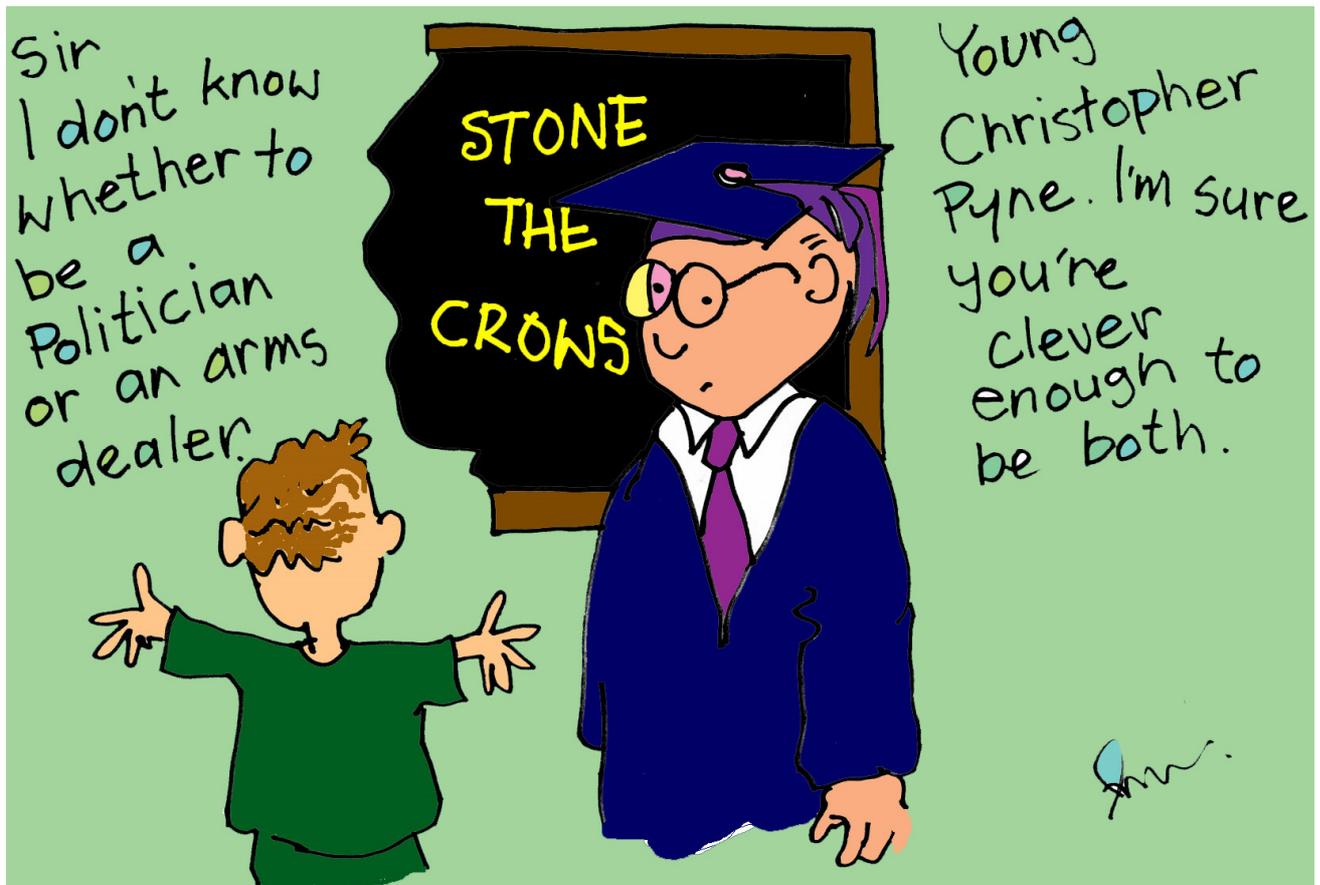
## Grandparents Against Adani

I'm off to Qld on Friday with a couple of other grandparents. Hopefully we don't end up in jail...

## Araluen Solar Panels

Energy This Month = 3.1 Mwh = \$750

Total Energy = 21 Mwh = \$5,000



## Insulating Paint

Last month I spoke about a paint additive called Insuladd. It is a small granulated material that you add to the paint which is supposed to increase the insulating properties of the paint. In that article I tested whether it improved the insulating properties. I got quite a lot of correspondence along two line:

- My comment that it is "reflecting the radiant coldness from the ice" is wrong.
- It is intended to improve solar reflectivity to keep your house cooler in summer

On the first issue, they were correct. In fact normally you get heat radiating from the 3 ply and heat radiating from the ice. Since the ice is cooler, it radiates less, so there is a nett transfer of heat via radiation from the 3 ply to the ice. With the aluminium foil in between, the radiant heat is reflected back to the source so there is no nett heat transfer via radiation.

The second point is also correct, which is why I planned to do the solar test this month.

So I got my 3 ply with the different coloured paints etc, some with the additive and put it out in direct sunlight. I used the infra red camera to measure the temperature on the back of the 3 ply.

Areas that reflected the solar radiation should be cooler.

As you can see from the table, the white paint is much better at reflecting heat



**Foil on the left, then insulation plus foil and insulation. Three coloured paint areas on the right, additive added to the top areas**



**Thermal image. The foil is now on the right since we are looking at the other side of the board**

than the brown or green paint. The additive makes some difference, but not as much as the colour. The foil and insulation works best .

So the moral of the story is to ensure you have aluminium reflector in the roof, paint your roof white and get more info on whether the additives works sufficiently to justify the cost!

#	Description	Temp	#	Description	Temp	#	Description	Temp
1	White + More additive	34.1	6	White + Add	33.8	10	White	36
2	Brown + More additive	48.3	7	Brown + Add	49.6	11	Brown	50.1
3	Green + More additive	46.6	8	Green + Add	46.9	12	Green	48.3
4	Alum + Insulator	31.6	9	Insulator	32.2			
5	Aluminium	33.8						

**Temperatures table. The white paint, foil and insulation are best at reflecting the heat from the sun**