



Chief Executive Officer
Central Coast Council
P O Box 21
Gosford NSW 2250

Comment on Development at
92 John Whiteway Drive
Gosford NSW 2250

Dear Sir,

RE: Development Application No 54602/2018

Notification received from Central Coast Council dated 26th June 2018

All the following items proposed relate to reducing overall energy costs and improved amenity, and futureproofing.

Thinking about the **greatly increased traffic flows** around the proposed, it would be worthwhile ensuring that the development facilitates the following.

- a) Electric car charging capability- cable provisioning at building time will greatly reduce costs and improve uptake.
- b) Electric bicycle charging – i.e. powerpoints at bicycle racks.

Both of these items will future proof the development to allow much quieter electric vehicles to be adopted without the usual delays which are happening in Sydney due to lack of building wiring infrastructure.

Ensuring lower energy bills for unit block owners:

- Rooftop solar electricity – cover the rooftops
- Electrical cable designed for an 'Embedded network' – to allow solar electricity sharing- saving residents more money. Low up-front investment cost- and enormous cost savings.
- Renewable heating for hot water services - by heat pump hot water systems. – is the cheapest source of heat
- Renewable heat from Heat mode of reverse cycle AC is the lowest cost source of heat. (about 1/3 cost of gas heating)
- Electric Battery storage provisions for near-future fitting.
- Ensure some units are electric only. Eliminating gas will save occupants \$220 per year in connections costs alone – and in all cases, gas appliances are now less efficient less effective and more costly than efficient electrical appliances.

Many DCPs request that energy imports to a building are reduced. – ensuring the provisions for onsite renewable heat, and renewable electricity are made at the outset will guarantee that energy costs, and therefore energy imports are minimised for the duration of the building.

While the above mentioned will very-substantially reduce electricity imports to the building, electric car charging would potentially lead to a further demand on electricity imports and partly offset those reduced energy imports.

- Renewable energy sourced from rooftop solar will be the lowest-cost source of energy for fuelling any vehicle.

If car charging is sought outside sunshine hours, smart metering and charging points can limit charging during peak periods to eliminate the need to upsize cable requirements to the building, as charging can happen overnight during low demand – i.e. off-peak periods on the electricity network.

I trust that at least some of the abovementioned options will be built into the development- for the benefit of everybody.

Note about this submission.

I am a resident of the unit block at 92 John Whiteway drive Gosford

I also work in the energy industry