Introducing the Smart Energy Home System at the Tannum Blue residential estate, an automated climate control system that puts you first!

- Comfort all year round
- Lower energy bills saving you money every year
- Maintaining an ideal living temperature
- Control your costs and increase your home’s liveability
- Never walk in to a hot, locked up house again

**AUTOMATED LIVING**
- Temperature and humidity sensors
- Automatic refresh fan to ventilate the home
- Solar panels to assist with power supply at peak times

**ENERGY MONITORING**
- An online monitoring system which allows you to manage your home remotely
- Receive alerts via text to your phone from the system

**FUTURE PROOF HOME DESIGN**
- A home which is able to cope with future climate changes
- Bio Phase Change Material (BioPCM) in the internal living room ceilings which absorbs and releases heat to maintain ideal room temperatures.

Visit us Cnr Tannum Sands and Dahl Roads, Tannum Sands
CALL 1300 325 519 or visit TANNUMBLUE.COM.AU

Tannum Blue
fresh coastal living
Questions and Answers

1. How much will the Smart Energy Home System save me per year?

Compared to a typical new home, delivering the same level of comfort, your Smart Energy Home System will save you hundreds of dollars per year. Savings are particularly high when your Smart Energy Home System uses a hot water heat pump running off the solar panels.

2. How do I operate a Smart Energy Home System?

The Smart Energy Home System comes with easy to choose comfort and cost settings that self-adjust for the seasons. Once set you can get on with enjoying your home.

3. Why is the automated climate control only in the living area?

The living rooms are the most used rooms but have the lowest energy efficiency.

4. Can I adjust the temperature if it is not exactly what I want?

Yes the hand held air conditioner remote will override the system.

5. Will my Smart Energy Home continue to save me energy in the future?

If energy grids and retailers keep seeking to cover their peak infrastructure costs and prices through increased prices for peak electricity use then the cost savings of your Smart Energy Home System will increase. Your Smart Energy Home System has been designed to reduce peak energy demand on air conditioning which is biggest factor in peak energy demand.

6. Will my home or air conditioner be controlled by the grid and does it have a smart meter?

No, the Smart Energy Home System does not have a smart meter and the grid has no control over your home or A/C. The Smart Energy Home System has been designed to put you in control. The Smart Energy Home System can give you the choice of letting an electricity retailer or utility have some control in the future if that’s what you decide is best for you.

7. How is the Smart Energy Home System a prototype?

The house itself is a standard energy efficient home built with extra smarts. All the smart elements of your Smart Energy Home System on their own are well understood and tested products. The key innovation has been to integrate the different technology in an automated systematic way into a residential home. The HEMS has been upgraded to operate your A/C using remote control coding and peak smart interface, both of which are subject to Australian standards. The BioPCM, which is made of inert plant material, is relatively new product though it is being used worldwide and full data specifications are available. The refresh fan is a standard energy efficient in-line fan ducted to the outside.

There are seven Smart Energy Homes Systems operating across Queensland from Townsville to Roma and they are working well. Adjustments to the programming to further improve comfort levels and reduce costs can be made.

8. What about my A/C warranty of it being controlled?

The Smart Energy Home System uses Australian Standards mechanisms to control the A/C so there are no impacts on your A/C warranty. The HEMS will also let you know.

9. What if I’m away on holidays?

The Smart Energy Home System can be left to look after itself. For example you can leave the Smart Home to use free power during the day to keep the locked up house comfortable for your return. Or you can re-set the Smart Energy Home System to use only the refresh fan only to keep the living room air fresh and keep the room at a reasonable temperature. In summer if it is humid the air conditioner can operate during the day using free solar to stop the locked up house from building up extreme heat.
Questions and Answers

10. What if I generally don’t like using air conditioning because of dryness of the air?
You can choose a setting that uses less A/C and more refresh fan. Your living room sensor has a humidity and temperature setting and so can adjust the living room comfort to allow some moisture back into the room.

11. I’m home most of the day but will be in and out?
Perfect, you will come home to a comfortable home.

12. What happens if I leave the sliding doors open all day?
This is not advised on hot days but most days the house will only run the A/C using solar power if it gets hot inside. It’s not efficient to have doors open but it won’t cost you money during the day. If there is a reason to open the house up like a party you can either turn the system off or leave it on.

13. We are at work during the day so will the A/C will be running when we are not home?
Yes some of the time depending on how hot or cold it is. Most of the year A/C won’t need to come on at all but when it does during the day it will use free solar power that you otherwise wouldn’t be using and your home will be comfortable when you come home.

14. What if it is very cloudy?
In Queensland we have good solar in winter and summer, even on cloudy days. The A/C will slow down if there is little solar for a period and will turn off when the suns goes down or down if it is a stinker and you are home. A cloudy winter day usually means it is warmer than on the clear cold winter days so less A/C is needed.

15. Can someone hack into the system?
The system support is hosted in a secure data centre. The most likely problem won’t be hacking but access through home Wi-Fi and smart phones. The key is to use passwords on your smart phone and it is more likely that no-gooders will be more interested in accessing your other private systems other than a climate system.

16. What other things can I have the Smart Energy Home System do?
You can have alerts sent to you if you are away if there is motion in your living room or if there is unexpected energy use.

17. Are there on-going service fees?
There are no on-going service fees.

18. Can I turn off the climate control and continue to use the solar panels?
Yes, the automated system can be easily turned on and off and you can continue to monitor your electricity.

19. How will it affect resale value?
Positively, if would be purchasers value their comfort. You will have all the data to show how your living space stayed comfortable all year round with little energy. Keep your small electricity bills!

20. Questions on BioPCM

a. What about rodents?
Being inert, (e.g. no smell or taste) animals are not interested.

b. What about fire?
BioPCM is fire resistant and is a safe building product in terms of toxins.

c. How long will it last?
It has been engineered test to 80 years – generally longer than the house.