



Green & Gold Energy



Inventors of the SunBall, winner of the New Inventors "Peoples Choice" award for 2005

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Press Release

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It is with pride that South Australian renewable energy company Green and Gold Energy (GGE) announces the first contract for our advanced technology SunCube Solar Appliance ultra high efficiency solar cell assembly.

ES System Co., Ltd. of Korea (ESS), already a GGE SunCube Solar Appliance manufacturing license holder, has entered a agreement to purchase at least 500 MWs of the GGE designed and developed SunCube Solar Appliance ultra high efficiency solar cell assembly. The ultra high efficiency cell assemblies will be delivered over the 10 years of their exclusive Korean manufacturing and distribution license agreement.

GGE has been working on the design and development of the SunCube Solar Appliance for the many years. Additionally GGE will expand its Adelaide SunCube manufacturing facility to 30 MW per year service the Australian market. This will include the construction of GGE owned and operated solar farms which can be built to provide very significant daytime base load capacity to reduce the need for either new fossil fuel or nuclear base load power stations. SunCube solar farms can be built much quicker than either "Clean Coal" or nuclear facilities and at a lower cost.

The SunCube Solar Appliance is a powerful tool that cost effectively fights Climate Change by lowering CO2 emissions from power stations, lowering electricity costs and providing an alternative to costly investment in peak electricity infrastructure.

Finally there is a tool to fight Climate Change and reduce CO2 emissions while reducing costs to home owners and industry and creating jobs.

The SunCube Solar Appliance is the first solar PV technology that can deliver kWhs from the home or business rooftop at less cost than if the kWhs were bought from the grid without needing tax payer funded rebates to achieve this below grid cost.

Additionally as the SunCube Solar Appliance tracks the sun and feeds power back into the grid, it can, unlike flat plate technology, contribute very significantly to reducing the peak loading that occurs on the electricity grid during hot summer afternoons.

Thus the SunCube Solar Appliance can contribute to wider community benefits in several ways:

- **Lowering / eliminating the electricity bill of the SunCube Solar Appliance owner by supplying rooftop electricity at less than retail grid cost**
- **Protecting against future electricity price rises when carbon emissions are taxed or clean coal technology is introduced**
- **Reducing CO2 emissions while generating low cost carbon credits and RECs**
- **Reducing peak loading on the network while reducing peak demand charges**
- **Improving the network power factor while reducing losses in the network**
- **Returning this released network capacity back to the network owner to reduce the need to spend additional capital to augment the grid**
- **Reducing the need for less CO2 efficient peaking plants to supply peak loads**
- **Reducing the differential between day and night generation and network loads**
- **Lowering the average day time wholesale electricity pool prices**
- **Reducing peak load stress on the entire electricity system**

The SunCube Solar Appliance does all this plus more and does it while reducing CO2, lowering peak network loads, saving money and creating jobs. The SunCube Solar Appliance has broken the old saying that protecting the environment and fighting climate change by reducing CO2 emissions will cost jobs and increase costs to industry and home owners.

You can refer to our web site to learn more about the SunCube Solar Appliance, which is designed, developed and manufactured in Adelaide, South Australia. An early prototype, The SunBall, won the ABC New Inventors Peoples Choice Award in 2005 for the most popular Australian invention.

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