

Development
Manager



Ben Merven joined the Pamada team in August and has since transitioned into the project manager position for the Kyoto Energy Park project.

Any enquiries from the community can be directed to Ben at:

ben.merven@pamada.com

Contact Us

By Phone:
02 9969 3608

Project Website:
kyotoenergypark.com.au

Business Address:
Ground floor, 100 William St
Woolloomooloo NSW 2011

By Email:
info@pamada.com

Key Facts

Kyoto Energy Park utilises free energy from nature's resources.

Keeping the Hunter clean and green.

Renewable alternatives to conventional forms of electricity production such as coal and gas.

Development and deployment of even more efficient wind turbine technology.

10MW of solar PV installation Solar PV output will suit peak local demand, reducing reliance on traditional coal-fired generation in the region.

The Kyoto Energy Park utilises drought proof integrated renewable technologies, for rural and regional incomes.

Power generation requires no water consumption.

Immense reductions in water consumption in the Hunter Area.

Development of Australian IP for innovative integrated renewable grid supply.

Reinforcing the Hunter and Greater Newcastle region as Australia's Energy Centre and creating economic growth.

An opportunity to create new skills and job sectors within the mining and energy dominated Hunter region.

Opportunities for transitional jobs from the coal mining industry.

Strong support from research and educational institutions including the UNSW, CSIRO and NSW TAFE.

Creation of construction jobs over 2 years of construction and creation of up to 12 ongoing jobs with multiplier effects for the NSW economy contributing \$91.2million throughout construction.

New tourism potential to the Upper Hunter Valley region.

Visitors and Education Centre for on-site system testing, educational research, and Indigenous Heritage.

The Visitor's and Education Centre would also be used for tourism purposes and as a lookout with distant views to the Valley's Power Stations and mines.

Generation of enough Green Electricity to power 47,000 homes.



Kyotoenergypark Newsletter

December 2011

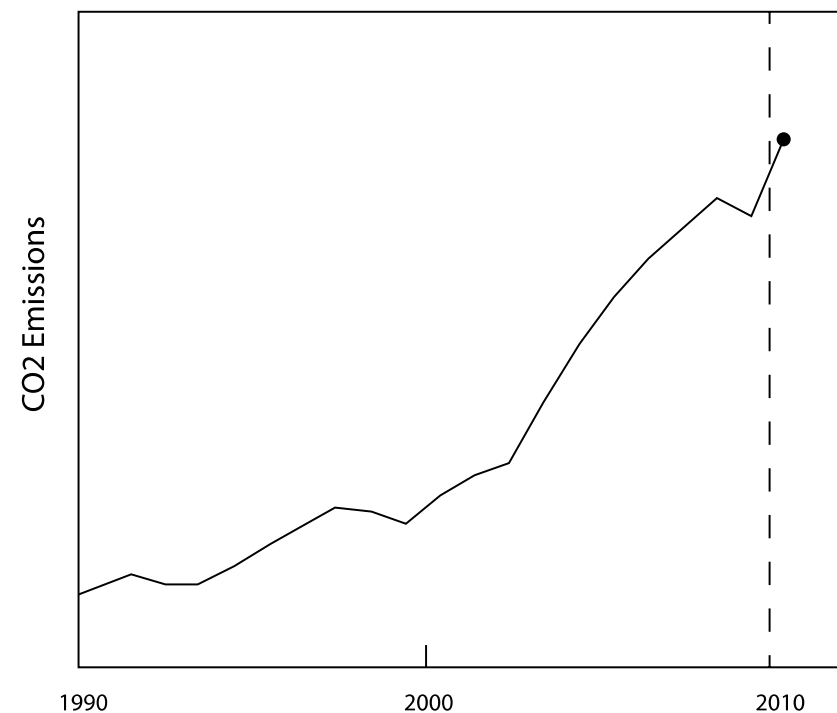
Global Emissions Rise

A recent study by the Global Carbon Project has revealed that global carbon emissions have soared by 5.9 per cent in the year 2010.

The Global Carbon Project is an international collaboration of scientists that tracks carbon emissions. The study findings mark one of the largest increases ever recorded since the industrial revolution. According to the World Coal Association, the largest consumer of coal in 2010 was China, consuming close to 3.5 times a second place USA, and India in third.

The burning of coal, a finite resource, has long been known as the main culprit for carbon emissions. Curbing global emissions and tackling climate change represents one of the greatest challenges of our time. A shift must occur in the energy-generating paradigm from "finite and dirty" to "clean and renewable".

The global scale and seeming lack of tangible connection between human activity and climate change often stands as a barrier between the need for action and action itself.



If ever an action could be considered pertinent, it would be the embrace of alternative energy and grasping the opportunity to take advantage of the fantastic natural and renewable resources our planet has to offer.

We cannot possibly imagine the hardships faced by generations before us, but we can certainly see the results of their actions. The same can be said of future generations looking back at us. The question we have to ask ourselves is what will they think of our actions?

Graph reproduced in part from "Carbon Budget 2010" by the Global Carbon Project



Why the "Kyoto Energy Park"

When Pamada became involved in 2005, the concept of an Energy Park was created. With strong wind speeds and a drought-affected area, the concept was created for combined generation for reliable green energy output.

The Kyoto Energy Park is the green energy solution.

Prior to Australia signing the Kyoto Protocol there was little political recognition of the dangers of climate change. The name "Kyoto Energy Park" was a cheeky reminder to the political leaders of the time that Australians were prepared to take their own action.

Who is Pamada?

Pamada is a boutique property advisory and services company based in Sydney. 100% Australian owned and for the last 24 years Pamada has quietly assisted the development of many large scale projects across Australia. Pamada focuses on renewable energy projects as well as large scale residential and community developments.

Recent News

Community Fund

As part of the operation of the Kyoto Energy Park, a community funding charter is to be established. The charter will seed funds and assist in raising further funds to go towards various community enhancements measures.

A foundation, with the proposed name being the Moobi Foundation, will be setup to administer the funds and decide where they should be allocated.

The operating wind farm will contribute \$86,700 per annum to the fund. Community measures that could benefit from the allocation of these funds might include improvements to community infrastructure and services, sustainability initiatives and local economic and tourism development.

Community Park

Pamada recently received a letter from the students of 3/4B from Scone Public School explaining their community initiative for an interactive park facility in Scone.

Acknowledging that council is responsible for the decision-making and with respect to the due process involved, Pamada is proud to give its support to the students and commends them on their proactive involvement in the community.

The students visited an interactive facilities park at Speers Point in Lake Macquarie. They described the great time they had at the park and the many benefits such a facility could provide to a local community.

Pamada feel that such a facility in Scone would be very beneficial to the local community as a whole. It would help children develop social interaction skills, as well as aid their physical development

and provide a safe and fun place to play.

Due to the uniqueness of such a facility, it would also provide a boost to tourism in the area, as demonstrated by the students of 3/4B travelling to Lake Macquarie to visit the park there.

We wish the students of 3/4B luck in their initiative, and hope they receive a positive outcome.

Off-take of Kyoto's Power

Pamada has been holding discussions with various energy retailers to negotiate a Power Purchase Agreement, or PPA. Discussions have been going well and it is hoped that an agreement will be reached in the short term.

It is also hoped that the energy retailer will have a local presence so that the Upper Hunter community can benefit directly from the renewable energy generated by Kyoto Energy Park.

A renewable energy park such as Kyoto creates two sources of revenue. The first is sale of the green energy that it generates.

The second source of revenue is Large-scale Generator Certificates. Under the Large-scale Renewable Energy Target Kyoto Energy Park will receive one LGC for every MWh of electricity generated.

Liabile entities (such as energy retailers) are then legally obliged to obtain and surrender a certain number of LGC's every year, creating incentives to move towards the use of green power.

Website Upgrade

Kyoto Energy Park has redesigned its website with a revamped look and some interesting information and resources. See it at www.kyotoenergypark.com.au

Small Wind

NSW Small Wind Turbine Consumer Guide

The NSW Office of Environment and Heritage offer a comprehensive guide to the installation and benefits of small wind turbines. The guide offers information on assessing your proposed site, choice of turbine, through to planning approvals and installation.

The guide also includes useful checklists for small wind projects, as well as lists of various suppliers, installers and products. For anyone looking to generate their own energy from a renewable and clean source, this guide is definitely worth reading.

The guide can be found at <http://www.environment.nsw.gov.au/resources/climatechange/0449SWCG.pdf>

Site Layout and Turbine Selection

Turbine selection has been finalized and final micro siting of wind turbine generators on the site is currently underway. A combination of the GE1.6-100 and the GE 2.75-103 turbines will be used. They have an output capacity of 1.6MW and 2.75MW respectively.

General Electric's technology has been exhaustively tested and is leading the market in clean, quiet and safe forms of energy generation. Continuing technological research and development have resulted in even quieter and more efficient turbines than ever before.

Extensive data monitoring and wind mapping analysis has yielded detailed information about local wind conditions including wind speed and turbulence. Such information allows micro siting of individual turbines to take place.

Micro siting of a turbine involves assigning an exact position to a turbine. Due to complex topography, localised wind conditions can vary greatly within a small area.

Micro siting is therefore of great importance as it ensures a turbine is taking full advantage of the available wind resource, thus maximising power output.

Once turbine locations are set, detailed energy assessments can be conducted to provide accurate information on the total energy production expected from the energy park.

