

## A sample collection of print media reports Relating to Pelena Energy since incorporation 21 April 1998

to

30 November 2018

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Vanuatu Daily Post - Page 8 - 19JUL2014

**LOCAL NEWS** 

### Pelena Energy praised for Talise Hydro work

Compiled by Jonas Cullwick

SENIOR REPRESENTATIVES OF THE Government of the Republic of Vanuatu applauded the work of Pelena Energy at a ceremony in Maewo last week

The official delegation arrived at Talise Village on 10th July. It comprised thirteen members including elected MPs and agency representatives. The Acting President (Head of State) of the Republic of Vanuatu, Speaker of Parliament, and local MP for Maewo, Philip Boedoro.: Acting Deputy Prime Minister of the Republic of Vanuatu, Minister for Climate Change & Energy, and MP for Ambae James Bule, Minister for Infrastructure & Public Utilities, Esmon Saimon were accompanied by various political and agency representatives.

Pelena Energy was represented by Managing Director Mr Peter Lynch, Electrical Engineer Mr Jared Henley, and Solomon Islands Technical Manager Mr Nixon Silas.

The community - comprising almost 400 people on the day welcomed the official delegation & Pelena Energy representatives with a customary greeting led by the village chief Swithin Ading.

Travelling the previous day by aeroplane from Port Vila to the nearest airport on Ambae Island, the delegation arrived at the Talise village beachfront by fibreglass canoes after travelling the 19km across open ocean from Ambae. The muddy track from the beachfront to the turbine house tested the trekking skills of the delegation until shoes and thongs



Various speeches were held at the turbine house until a padlock key was handed, symbolically, from Pelena Energy's Peter Lynch to the Acting Deputy Prime Minister & Minister for Climate Change & Energy James Bule who represented the Government (being Pelena Energy's client in this project). The Minister then unlocked the door of the turbine house and formally handed the key to the Paramount Chief, representing the

The delegation was shown the operation of the (Dorrigo built) Pelena Energy turbine and control system. Locally-trained technicians demonstrated a system shut-down and restart. Nerves were very high amongst the technicians as they demonstrated their ability to re-start the system and establish controlled power, frequency, and voltage outputs.

'educated' audience. Cheers erupted as the system was started and the electric lights of the turbine house shone bright. Shortly after, there was a rush to the powerpoints to recharge mobile phones!

The Acting Deputy Prime Minister Hon. James Bule praised the work of Pelena Energy and commented on the significant benefits & opportunities for development that come with electricity, and congratulated Pelena Energy, the Department of Energy and the people of Maewo tirelessly overcoming hardship to make this project a success. He also commented on the appropriateness of this technology in utilising Vanuatu's natural clean energy sources. He acknowledged that this project complemented the range of renewable energy technologies the Government was pursuing to reduce Two out of the three technicians have greenhouse gas emissions and

to the donor agencies that financially supported this project including IUCN (International Union for Conservation of Nature), Governments of Italy and

Austria (of Europe).

The Minister for Infrastructure & Public Utilities Hon. Esmon Saimon continually shook his head in surprise at how such a project could have been built by local people, without the need for bulldozers or the like which are notoriously unreliable in these remote places and extremely expensive to operate.

Peter Lynch said "It has been an absolute honour to work with the Vanuatu Department of Energy and the Ministry of Climate Change and Natural Disaster. There have been significant challenges faced, yet together these challenges have been overcome. I was particularly pleased with the attitude of searching for solutions, not searching for problems. In particular, I would like to thank the professionalism of Director of Energy Mr Jesse Benjamin and Program Manager Mr Leo Moli for their untiring efforts to see this project

Mr. Lynch also acknowledged and thanked the "never give up" attitude of the people of Maewo to see this project through, especially given the horrendous weather events of cyclones, floods, and winds that hampered the construction. In particular, he would like to thank Mr Peter Salemalo whom has been a driving force behind this project since 2001. Without Mr Salemalo's local dedication, the project would have struggled to materialize.

four hours per day without the need for batteries. There are real kilowatts generated which allows people and entrepreneurs to go to local stores and buy common appliances and tools to improve their own lives. Solar and wind cannot provide this because it is intermittent and requires batteries for storage. Batteries are too expensive resulting in many failed solar and wind systems throughout the Pacific and elsewhere unless heavily subsidised from outside the villages.

This stage of the project is just the generation phase. The connection of the electricity to the villages has yet to be undertaken. This electrical reticulation will result in almost 340 houses, schools, clinics, businesses, and churches being connected to the system. The Ministry of Climate Change and Natural Disaster is actively negotiating extra funds with the Government and various donor agencies including private investors to invest in the electrical reticulation which would amount to not more than 100 million vatu.

The technical aspects of the Talise Micro-Hydroelectric system are:

Rated power: 75 kilowatts Frequency & Voltage: 50 Hertz, 240/415 Volts

Turbine: Pelena Pelton turbine with belt drive to 3-phase alternato

Controls: Pelena PLC-based voltage & frequency with electronic load control

Head: 106 metres gross Penstock: 250mm uPVC for over 850 metres (fully buried)

Intake: Tyrolean Weir with

The Minister for Infrastructure & Public Utilities... continually shook his head in surprise at how such" a project could have been built by local people, without the need for bulldozers..."

"The official delegation ...comprised thirteen members including MPs and agency representatives .... Acting President (Head of State) .... Acting Deputy Prime Minister ...."

"Acting Deputy Prime Minister .... praised the work of Pelena ....."

".. congratulated Pelena Energy, the Department of Energy and the people of Maewo tirelessly overcoming hardship to make this project a success."

"..Locally-trained technicians demonstrated a system shut-down and restart."

## Advocate

Coffs Coast Advocate 19JUL2014 Page 10

PAGE 10 | Saturday, July 19, 2014

Advocate

**ELECTRIC MOVE: Dorrigo energy company installs micro-hydro system in Vanuatu** 

## Power to village people

DORRIGO micro-hydro company Pelena Energy has had a dramatic reversal of fortunes since being on the brink of closing down last year.

In the face of regulatory hurdles in Australia, the company has continued its work in bringing electricity generation to remote villages in the South Pacific.

The latest project has taken a Dorrigo-built turbine and control system to Vanuatu's remote Talise Village, where the system was installed and community members trained to maintain and operate the equipment.

Vanuatu's acting president and a host of government ministers were joined by Pelena's Peter Lynch, Jared Henley and Nixon Silas at an official ceremony last week.

Arriving by fibreglass canoe after a 19km trip across open ocean, the delegation was joined by about 400 community members in celebrating the milestone of having powered lights in the village.

"Micro-hydro has the grunt to allow for real development through electricity because it operates 24 hours per day without the need for batteries," Mr Lynch said.

"There are real kilowatts



LEAP FORWARD: Vanuatu officials and residents inspect the Dorrigo-built turbine and control system installed in Talise Village at an official start-up last week.

generated, which allows people and entrepreneurs to go to local stores and buy common appliances and tools to improve their own lives.

"Solar and wind cannot provide this because it is intermittent and requires batteries for storage.

"Batteries are too expensive, resulting in many failed

solar and wind systems throughout the Pacific and elsewhere unless heavily subsidised from outside the villages."

Mr Lynch said this stage of the project was just the generation phase and connection of the electricity to the villages was yet to start.

The end result will connect almost 340 houses. schools, clinics, businesses and churches to the 75kW system.

Pelena Energy has delivered similar systems in the Solomon Islands and developed ways to avoid the use of bulldozers and other large plant, which is notoriously unreliable in remote tropical areas.

"We expect to gain further rural development.

projects in PNG, Solomon Islands and Vanuatu in the near future," Mr Lynch said

"The rural-focused technologies Pelena has developed and their increasing acceptance and praise overseas spurs us on to see the proposed Dorrigo Energy Centre become a reality as a hub for further rural development."

"Micro-hydro has the grunt to allow for real development through electricity because it operates 24 hours without the need for batteries."

"There are real kilowatts generated, which allows people and entrepreneurs to go to locals stores and buy common appliances and tools to improve their own lives."

## Advocate

19AUG2011-Coffs Coast Advocate - Page 4

# Small company big power in PNG



A SMALL local renewable-energy company with a whole lot of heart has received a visit from a special delegation.

Dorrigo's Pelena Energy, the combined enterprise of Peter Lynch and his wife, Selena Bryce, hosted the group from Papua New Guinea (PNG) who arrived to inspect micro-hydroelectric turbines, coconut oil-powered generators and freezer rooms for ice making.

Of particular interest was the micro-hydroelectric system bound for the village, Ok Tarim, which is located in a remote part of PNG.

Mr Lynch said the equipment Pelena Energy is supplying will be airlifted to the village by helicopter from the nearest road. The project will mean electricity can be generated from water flowing in a small river next to the village of Ok Tarim.

"The main benefits of the electricity will be the supply of quality lighting to houses and streetlights, operation of the health clinic and schools and income opportunities," Mr Lynch said.

One of the members of the



RENEWABLE ENERGY: Tony Carbry, Joseph Bariamu, Peter Lynch, Boka Kondra and Don Manoa.

PHOTO: CONTRIBUTED

delegation was Boka Kondra, a member of parliament representing the electorate of North Fly.

The giant Ok Tedi mine, which caused immense environmental and social issues, is located within his electorate.

"The visit this week by such an

important overseas delegation clearly demonstrates that Australia's nearest neighbours are seeking a path of sustainability and renewable energy is key to their future."

Pelena Energy also has projects under way in Vanuatu, Solomon Islands and elsewhere in PNG.

Coffs Coast Advocate 16JUL2011 page 4

## Islanders' lives changed



PELENA Energy, the small renewable-energy company based in Dorrigo, is helping to change thou-sands of lives in far-flung villages in Solomon Islands, Vanuatu, Papua New Guinea and Fiji.

Managing director Peter Lynch said when he and his wife and business partner Selena Bryce established the company 13 years ago, they recognised that whether in the PNG highlands or on a Paci-fic island, the problems for remote villages were similar. And it was all to do with energy,

infrastructure and transport.
"We witnessed that normal development paths of delivering grid electricity, roads and communica-tion to villages was not an option because of the difficulty of access, Mr Lynch said. "We have approached the problem differently -instead of being an energy provider, we work with the community on a series of integrated activities. We work not only on electrification but also business options and linking the village to markets.

One example Advocate readers might remember was the 2006 story of the shallow-draft boat which Mr Lynch built in Dorrigo, and then sailed to the Solomon Islands as a vay to create a reliable ferry service between islands and markets.

"After five years the service is running reliably and has naturally developed into much more, such as providing emergency transport for the sick, being chartered for market Ferry service is running reliably and has naturally developed into much more, such as emergencies

needs plus it is totally operated and managed by village people," Mr Lynch said.



SUSTAINABLE: Pelena Energy director Peter Lynch.

The original plan of the boat running off locally-grown and produced coconut oil has not yet occurred due to a lack of funding but may still eventuate

"The reason this works is be-cause the village people have a strong loyalty to their family rep utations plus we built the boat knowing spare parts would be needed – we have worked out ways through the communication difficulties to keep that connection there. Giving people the opportun-ity to stay in their villages and not get dragged into the cities is important for community wellbeing. With their reputation esta-

blished, the Solomon Islands go-vernment and others are now approaching Pelena directly with village electrification requests

Pelena uses either micro-hydro solar or coconut oil-powered gener-ators to drive the local economies forward.

Another Solomon Island project uses locally-generated electricity to make ice to freeze fish and preserve them so when the ship ser vice arrives, villagers are ready with their fish in eskies and ice.

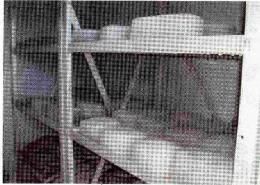
Locally, Pelena hopes to expand sufficiently to allow them to develop micro-hydro on the Dorrigo

Mr Lynch said the Bellingen Shire Council had been very supportive and had offered to help Pelena navigate through the multitude of government agencies associated with such a development.

"Dorrigo had the first mainland hydro-electric scheme in the 1920s I'd like to see that resurrected."



RELIABLE: Pelena Express operates in the Western provinces of Solomon Is-



BUSINESS BOOST: Ice made in ice-cream containers for freezing fish.

"[We found] the problems for remote villages were similar ..... it was to do with energy infrastructure and transport."

"... approached the problem differently .... we work on electrification... [and] business options and linking the village to markets."

"Giving people the opportunity to stay in their villages and not get dragged into the cities ..... important for community wellbeing."



Renew magazine No 112 - JUL-SEP 2010 - Page 63

# Micro-hydro at its best

This freezer/ice-making cold storage room is powered from a 40kW micro-hydro turbine in the Solomon Islands.

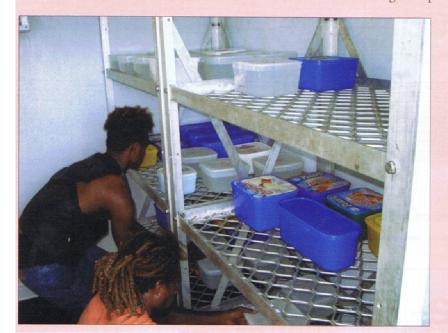
arlier this year drums, bells and cheering echoed through Masupa Village in the Solomon Islands as the new micro-hydroelectric turbine started up, shining light on the turbine house and foreshores.

Pelena Energy was commissioned to design and construct the project, which cost AU\$120,000 and was fully funded by a Rural Electrification Development fund. Over 13 days over 200 community members constructed a 12-metre-wide concrete weir, a concrete settling tank and forebay, finalised the digging of a trench, and joined and buried over 300 metres of 200mm diameter PVC pressure pipe for the penstock. They also constructed the turbine house, installed the turbine and

generator with all electrical controls and constructed and assembled a freezer room to produce ice and store fish ready for market. Preliminary training to technicians in operation and maintenance was also provided.

Most of the new turbine's electricity will go towards operating the freezer room, with the community's first esky load of fish delivered to Honiara on February 11. The next stage of the project is to construct a transmission line to the village to provide lighting and help improve income opportunities for the Masupa community.

The A'ero Freezer Room Trust Committee was formed to manage the power station and freezer. The trust includes



members of the landholding tribe that play host to the facility. This project empowers the rural community to manage their own resources and boost economic activities through fishing, in turn opening up job creation within the community.

Videos of the construction can be found at www.youtube.com/profile?user= pelenaenergy

Top: Inside the turbine house; Left: The cold room helps the community with the preservation of food.

www.ata.org.au ReNew112

# Courier-Sun

Bellingen Shire Courier-Sun - page 2 - 13NOV2013

### Dorrigo Energy Centre a boon for plateau

### BY ALICE BURNET

MORE than 70 people attended a Dorrigo town meeting on Wednesday, October 30 to ask questions about the proposed Dorrigo Energy Centre.

The Dorrigo Energy Centre is a concept put forward by the owners of local business and renewable energy developer, Pelena Energy.

The aim of the Dorrigo Energy Centre is to be an Australian first. It will provide information and showcase full-scale models of a diverse range of energy technologies.

The centre will have a rural focus but it will also provide people with an understanding of household renewable energy technologies and their direct impact on day-to-

Pelena Energy owner Peter Lynch also espoused the virtues of having a new and large company based on the Dorrigo Plateau. A specific emphasis was made to the creation on local jobs, rural innovation and regional business opportunities.

It is anticipated that should the Dorrigo Energy Centre be established, 30 to 40 full time jobs would be created for the local community.

The layout for the Dorrigo Energy Centre were displayed at the meeting.

Palena is exploring financing options to purchase this site based on a current option to purchase.

The business model of the centre was yet to be decided, with a variety models suggested.

However, it is understood that this venture is an initiative by Palena in collaboration with the Dorrigo community.

The attendees also discussed the current impediments to this proposed development.

Current state government regulatory barriers and an unsupportive bureaucratic framework were identified as key obstacles in moving the project forward.

The meeting concluded with a call to lobby the Member for Oxley and NSW Deputy Premier Andrew Stoner.

More information can be found at www.dorrigoenergycentre.org

Members of the community can contribute and campaign for the Dorrigo Energy Centre by downloading a proposed letter form the above mentioned website.

## Courier-Sun

Bellingen Courier Sun pg 9 - 18SEP2013

### **Energy centre to power Dorrigo employment**

### BY JESS GRACE

A PROPOSAL for a Dorrigo Energy Centre aims to create and retain local employment in the area as well as provide examples of different energy sources and how they are utilised.

The centre also proposes to train people in different types of energy, as well as provide accreditations and opportunities for practical learning associated with some university and TAFE modules. With a focus on rural

With a focus on rural people, the centre would allow everyone to see all the types of energy sources available.

the types of energy sources available. "It's [the centre] not intended to be primarily a renewable or alternative energy centre, just to show the types of energy for practical application," Dorrigo Energy centre organiser Peter Lynch said The range of energy options include microhydro, solar, thermal, photovoltaic, wind and biomass (focussing on farm waste to energy).

The centre aims to be a not-for-profit organisation, which would provide greater access to government funding.

Mr Lynch and his wife

Mr Lynch and his wife and business partner, Salena Bryce, have met with many groups in the Dorrigo community to discuss their proposal

discuss their proposal.

"There is a significant amount of lenergy innovation] passion in the Bellingen Shire, that's why we are pursuing this," Mr Lynch said.

The intended site of the

The intended site of the centre is at the original micro-hydro weir in Dorrigo, built in 1922.

Mr Lynch and Ms Bryce have researched the concept since 1996.

cept since 1996.
Since selecting Dorrigo in 2003, they have been working closely with Bellingen Council who

have been supportive.

The estimated cost of the centre is \$2.7 million, however, most of the building would be done as part of a training course.

"In the future, I see Waterfall Way being known as the Energy Way whereby people journey from the coast through energy-aware towns like Bellingen and Dorrigo leading through to the proposed community wind farms near Armidale," Mr Lynch said.

Meanwhile, Pelena Energy, which Mr Lynch ways is restarting its

Meanwhile, Pelena Energy, which Mr Lynch owns, is restarting its project in Talise Village, Vanuatu, to create a micro-hydro system. Due to the business

Due to the business opportunity, Pelena Energy has been able to re-employ one part-time

However, there is not enough business to fully re-open its doors at this stage.



Anare Matakiviti, Philip Boedoro and Peter Salemalo from Talise Village in Vanuatu with Peter Lynch from Pelena Energy in Dorrigo

# The Bellingen Shire Sun

Bellingen Courier Sun – 02MAY2018 page 4

### Cyclones and volcano hamper hydro project

BY JANENE CAREY

DORRIGO'S Peter Lynch, managing director of Pelena Energy, has returned from an eventful month in Vanuatu that featured three cyclones, one volcanic eruption and 20 days of rain.

It's hardly surprising that his work on Stage Two of the Talise Hydroelectric Project on the island of Maewo didn't quite go according to plan.

Stage One in 2014 involved the construction of the 75-kilowatt generation plant, a run-of-river micro hydro system that Pelena Energy designed.

The goal for Stage Two was to lay 6km of high voltage cable underground from the generator at the Talise River valley to the coast, bringing power to four villages Tam, Talise, Narovorovo and Nasawa.

have a step-down transform- shot a kilometre above the er that takes the voltage from top of the mountain. 11,000 volts to the standard and churches.

However, drenching rain, Ambae and other islands. fierce winds, high seas and es by hand, and haul cable chromatic grey. through the jungle.

The volcano that erupted spiration for James Michener's paradise Bali Hai.



Local helpers carrying HV cable from the village of Tam to step up

Maewo, 17km across the wa-Each of the villages will ter, Peter watched as the lava

No one was injured by the 240 volts supplied to houses, eruption but major devastaschools, clinics, businesses, tion has been occurring from ash and acid rain falling on

Plants that the villagers falling ash meant they only and their animals rely on got 1.5km done, despite for sustenance have been having 200 members of the destroyed, water supplies community lending their have been contaminated from boats, dig long trench- jungle have turned mono-

Technical officers taking technical officer. care of the hydro system on on March 24 is on the island Maewo have been checking formally educated people," blossom both their careers of Ambae, famous as the in- that the corrosive ash is not he said. "We target people and our business." damaging the equipment.

Standing on the beach at cals were carefully selected



Volcanic activity as seen from Talise, Maewo Island. The volcano is spewing so much ash that the Island of Ambae, labour to unload equipment and tracts of formerly green home to 11,000 people, is becoming uninhabitable.

who have demonstrated a to stay living in their rural season is over.

and trained for the role of area, in their village. These are the types of people where "We don't target highly we've really been able to

Peter plans to return to Va-Peter said these young lo- willingness and enthusiasm nuatu in June, when the wet power generation from re-

As well as finishing the cable laying. Pelena and its community taskforce will be putting lights and power points in two boarding schools and a medical clinic as part of Stage Two.

The Vanuatu government is seeking funding for Stage Three of the project, which will supply electricity to houses in the villages.

Vanuatu is one of the most remote, dispersed nations in the world, and in 2014, when its rural electrification peoject launched, three-quarters of its population was living without access to electricity.

The government has set a target of 90 per cent access by 2020, with 65 per cent newable energy.



The Herald 30SEP2003 page 37

central coast business

## **Turning water into power**

### Light means knowledge for villagers

By DEAN GOULD

A WOY Woy firm is changing the lives of remote villagers in the Solomon Islands. Pelena Pty Ltd supplies micro-hydro turbines to the Solomons and is able to bring eco-friendly electricity and lighting to com-munities previously in the dark ages.

lished an office in the Solomons at Gizo.

"We believe our success is that we are providing a technology—not just a product." Mr Lymch said.

"We provide the support services of training, spare parts accessibility, appropriate manuals and cultural sensitivity.

"In a way we are providing information technology to support our hardware technology." Felena supplies to an Australian agency which is the project manager for each site. The turbinacy cost around \$35,000 but the overall number for each site. The turbine cost around \$35,000 but the overall number for each site. The turbine cost around \$30,000 but the overall number for business which is worth a sound \$20,000.

"For Solomon Islands, most vil-lages are located on a fresh water river or creek," Mr Lynch said.
"The micro-hydroelectric sys-tems that we supply use the vil-lagers' own natural resource – the water – to generate electricity. The water is not used-up or polluted— it is returned unpolluted to the river after it flows through the burbine.



ANY WAY THEY CAN: Wire cabling needed to create electrification is transported by boat to a village work site.

"All the turbine does is extract the energy of the falling water which would otherwise be dissipated as the water flowed down the river over the rocks.

"Electricity through the villagers' own renewable energy resource, is the key to development."

Mr Lynch said the turbines were making a huge difference to the quality of life in the remote Solomons communities.

With electricity, a village can:

In Improve health. Electricity can be used for storing medical

supplies and powering clinics;

Ill Provide better lighting, climinating the need for costly kerosene and torch batteries;

Ill Provide better schooling through lighting, Light allows the children to study at night;

Ill Allow for the construction of better and stronger houses through the use of power tools;

Ill Allows for communication through radio, and eventually telephone and internet.

Mr Lynch oversees each unit's installation.



SCHOOLHOUSE NEWS: New lighting INSTALLATION: Islanders do the hard work on installing a hydro-turbine.



## Advocate

Coffs Coast Advocate - 17June2009 Page 8

# Course welds new career for Jamie





HANDS ON: Jamie Mears is working on a hydro-electric project which will bring electricity to a village in Solomon Islands.

### By UTE SCHULENBERG

JAMIE Mears loves welding.

But it's a talent he only discovered thanks to a TAFE/ Dorrigo Youth Service course last year, which put the tools in his hands out at Pelena Energy's workshop.

Managing director Peter Lynch was so impressed with Jamie's skill level and attitude that he offered him a traineeship.

Now Jamie is Peter's offsider as they work on the construction of a hydro-electric turbine bound for the Solomon Islands village of Masuna'a.

"I'm enjoying learning all the new skills," Jamie, said.

"And it's great to have work doing something I'm good at."

Mr Lynch said it was not only the young man's talents for welding that drew his attention, but also the swag of skills gained from growing up on a farm in Dorrigo.

"Jamie has a practical understanding of various engineering concepts and technologies. These are directly transferable to our needs, which are linking rural Australia with the rural South Pacific," Mr Lynch said.

As Jamie works on the turbine on the plateau, villagers in Masupa'a are busy digging trenches for pipes, which will carry water from a small weir down the hillside to the turbine. The high speed water will spin the turbine which is connected to the generator to produce electricity for the 1000 inhabitants. Pelena Energy is currently in negotiation with Solomon Islands' government for a Memorandum of Understanding to allow the development of 500 village electrification projects coupled with sustainable income generation projects.

Australian job opportunities: "Jamie has a practical understanding .... directly transferable to [Pelena's] needs, which are linking rural Australia with the rural South Pacific."

## Daily Telegraph

The Daily Telegraph, 06SEP2003 page 5

## Local engineer plugs Solomons into power

**HUNDREDS** of embattled Solomon Islanders connected to cheap, reliable and green electricity thanks to the commitment of a Central Coast businessman and his wife.

Lynch, who has started a com-pany that makes hydro-electric turbine systems, has provided war-torn nation.

Civil war and the hard slog to build his family a home have not quelled Mr Lynch's desire to help the hundreds of Solomon Islanders he met as an aid worker.

The Lynches have an office in their home at Woy Woy and a small factory in Somersby, where Mr Lynch single-handedly designs and con-structs the turbine systems.

Yesterday, federal member for Robertson Jim Lloyd unfor Robertson Jim Looyd un-veiled Mr Lynch's latest tur-bines, which took eight weeks to build and will provide power to 450 people in the village of Nairiao.

Mr Lynch said he was exsecting the same reaction in Nairiao as in the other communities that now have power.

There will be no screaming a pause, a time to reflect and stand in awe, then an eruption of celebratory joy." Mr Lynch said. "Life will never be the same — it will be better."

The family has we support of Mr Lloyd, when was keen to see loca businesses succeed a businesses succeed as

In remote areas, kerosene and diesel are used to supply power but both are expensive and crucial supplies have been hard to access during war time.

Life for the 600 students who board at Bula High School in Bulelavata village has been made easier with one of the turbines allowing them to freeze local fish rather than import canned products.



work under fluorescent lights.

Communities with tur-bines built by Mr Lynch's company, Pelena, were the only ones to maintain power throughout the civil war and Mr Lynch said the tech-nology was creating jobs in poor communities.

Hydro-electric have proven to be a lifeline in other third world communities, with one operating Papua New Guinea and 15 in

Pelena turbines are installed in river systems near villages and use the water flow to create electricity, which is used for lighting, freezer systems to store food and to power local industry.

Mr Lynch's wife Salena said yesterday the family was committed to Solomon Islanders, having spent time there as aid workers, but said they were struggling to find funding to build the turbines, which cost thousands.

The family has won the support of Mr Lloyd, who said he was keen to see local small businesses succeed and acknowledged the risk and sacrifices the Lynches had made.

"Small business is the life-Mr Lloyd said.

"It never ceases to amaze me that these small busi-nesses export things like tur-bines to the world. I think we about that.'



Family business: Peter Lynch and wife Salena Bryce with their children Hugo and Matilda at the launch of the turbines for Nairiao yesterday.

Peture: TODO MARTIN JONES

## Don Dorrigo Bazette and Guy Fawkes Advocate

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Email: dgogazette@westnet.com.au

Vol. 102 - No. 16

DORRIGO

Wednesday, May 23, 2012

The ONLY pa Providing nev

## Pelena Has The Powe

Off to the highlands of western PNG, Dorrigo's Pelena Energy recently sent a Hydro-Electric-Turbine to Ok Tarim to generate power for a clinic, village school and all houses.

Salena Bryce, is excited about mountainous terrain we expect this project and will fly to Ok to grow and expand our Tarim later his month to over- business in the area of hydrosee the installation.

"The generated hydro energy at this village is very small due ped in early March via Brisbane to the small stream," said to Port Moresby.

Peter Lynch, "It will only The fully pecked container. Peter Lynch, "It will only generate five kilowatts, However, this amount is sufficient to provide streetlights and lightof in each house, power for it was loaded on a barge to the mouth of the Fly River; from there it was loaded on a barge to the roughly street it was loaded on the where it electricity to run a clinic and school. The isolation of the village — less than two kilometres from the Indonesian border — will mean it can offer modern services and medical facilities to benefit a very lifted by helicopter to the vill-large area," Pelena's client is age of Ok Tarim.

Established in 1998, Pelena Energy relocated to Dorrigo just over six years ago. Managing Director (and outgoing Chamb-er President) Peter Lynch said, "We chose Dorrigo for a number of reasons including our preference for the distinct and varied climate. Also closeness to the coast and road, rail and

Peter Lynch, who established was also a significant factor". Pelena Energy with his wife Due to the high rainfall and electric systems.

The current project was ship-

From Kiunga, the container and will be unpacked and tir- rural isolation".

supervisory team from Solomon islands and PNG will work with the village community to construct the hydro reter Lynch said, "There are 1.0 roads or airstrips nearby, only tracks, so the hydro will benefit a very large number of process."

Lynch said, "There are 1.0 roads or airstrips nearby, only tracks, so the hydro will benefit a very large number of process."

Pulsua ing us back is the red tape for installing micro-hydros in NSW. It's virtually impossible to install a micro-hydro in NSW for income generation without expending more than \$120,000 on environmental assessments."

Pelena specialises in functional procession of the proce tracks, so the hydro will bene-fit a very large number of people". Pelena specialises in turbines capable of generating up to 250kW. Refer: www.pelena.

"With a focus on rural energy com.au and enterprise development in to the coast and road, ran and an energins development airports played an important Mcianesian countries such as factor. The size of own, primary and secondary schooling. Guinea, and Vanuatu, Pelena is hospitals, ambulance, & police also involved in coconut oil

extraction and utilisation in engines, boat building, village food processing technologies & partnering with village com-munities for income generation. Last financial year, 94% of Pelena's income was sourced from exports, with this year looking like being closer to 99%. Pelena's approach is to engage with communities to assist them to construct the systems, eliminating the need for roads. bulldozers trucks".

Peter Lynch, "Dorrigo is surprisingly suited to manufact-uring for us. Processes like welding are better suited to the cooler climate due to employee comfort benefits. Additionally, travel 850km upstream to the inland port of Kiunga where it arrived a few days ago. tralia is extremely attractive to From Kiunga, the container our clients as they believe we will travel by road to Ningerum can relate to their logistical

"We'd like to become Western Power, a subsidiary of PNG Sustainable Development Programme.

age of Ok Tarim.

Once all goods are in Ok Pacific' said Mr. Lynch. "Holding us back is the red tape for installing as the red tape for installing