

NRGLab Strategic Business Plan 2013

For the Sale of Generators (SH Boxes)

And Electrical Energy

NRGLab, Singapore

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II. Executive Summary

Five Opportunities to Profit from Production of Generators (SH Boxes) for Clean Electric Power Generation

NRGLAB, Singapore

1. Profiting for Investors-Partners in Territory License purchase.

Having purchased a Territory License on a 2-year installment plan, the Investor-Partner can sell the part of the territory he owns to power producers, independent electricity sellers, etc. In negotiations with its customers, the Investor-Partner can make reference to paragraphs 2, 3, 4 of this section.

For purchasing a license with the goal of resale, the NRGLab license price is \$50 million and requires a 10 percent down payment. Full payment on the balance is required within 2 years. Our projections show a realistic estimate on the resale of the license at a price of at least \$200 million on the low end, with a potential high-end resale of up to \$500 million, netting a 400 percent to 1,000 percent ROI.

2. Profiting for Investors-Partners in construction of manufacturing plant.

Construction of the manufacturing plant for the annual production of 10,000 SH boxes is estimated at \$100 million. By investing in the part of design and construction projects within the first year, Investor-Partner can sign Futures contracts on the sale of electricity. At a price of \$0.07 per kW/h, two-year contracts in the amount of \$550 million or more can be sold. In case the Investor-Partner's expenses on plant construction are \$100 million, whilst payment to JV for electricity and service is \$0.03 per kW, the project will pay off in the first year. Gross profit of JV will be \$620 million.

2A) Subtracting the sale of 10,000 SH boxes at the price of \$90,000 from production price \$60,000 per one SH box, we derive \$300 million;

2B) Subtracting the selling price of electricity \$0.07 from electricity production and service at the price of \$0.03, we derive \$0.04. Multiplying this amount by 8,000 hours of the two-year contracts (with 0.5 index of energy choice), we derive \$320 - gross profit from 1 kW/h per two years. To get the total amount, we multiply \$320 by 10,000 SH

boxes and by 100 kW. Thus, we derive profit from the two-year contracts equal to \$320 million.

Under this arrangement, the Investor-Partner may also opt for a \$126 million license and \$195 million investment for construction of two manufacturing plants capable of producing 20,000 SH boxes annually. The resulting two-year energy supply contracts will produce an estimated profit of \$600 million on the SH boxes as well as estimated profit of \$640 million on the sale of electricity. At the end of the two-year contract the exit strategy will be to sell the two factories for an estimated \$800 million to \$1.24 billion.

3. Profiting for Investors-Partners through electricity consumers.

Corporate and private consumers can directly repurchase SH boxes from Sear Horse NRG PTE LTD before the Investor-Partner repurchases a Territory License. In this case, consumers will have an SH box with 100 kW electricity and a warranty of 20 years at its purchase price equal to \$90,000. Along with this price, price for electricity \$0.02 and price for service will be charged. This price does not include shipping charges. Thus, dividing \$90,000 by 20 years, we derive the price per 100kW/year equal to \$4,500. Dividing this amount by 100 kW, we derive the price per 1 kW/year equal to \$45. Dividing \$45 by 8,000 hours per year, we derive the price of 1kW/h equal to \$0.0056.

Thus, the total price for corporate or private consumers of electricity will be: $\$0.02 + \$0.01 + \$0.0056 = \0.0356 per kW/h. One corporate client (8-10 families) who repurchases one SH box delivering 100 kW, with the current economy in Europe, will derive more than 150,000 Euros annually. The SH box for the corporate client will pay off within the first 8 months of use.

This enables the corporate or private partner to sell electricity at prevailing rates while enjoying a significantly wider profit margin, as the cost of electricity production with SH boxes is .03 kW/h with a .01 kW/h servicing fee for maintenance on the equipment. Maintenance includes NRGLab's commitment to recharging SH boxes at the end of the first 10 years of the boxes' 20-year lifespan.

4. Profiting for Investors-Partners as the resellers.

SH boxes utilize 12 primary and proprietary components comprised of rare-earth metals, metal oxides, and industrial diamonds. At the moment, these components are relatively inexpensive on the international market, and the plants which produce them

also operate at relatively low cost, in terms of both facilities and labor expenses. All these components will be bought for us by the GUTEX organization.

Our demand for these components will grow significantly as we ramp up mass production of SH boxes, which means that we also expect the price on components and the manufacturing plants will increase rapidly. According to our estimates, 200 production plants will be needed worldwide.

To head off this likelihood and mitigate the risk of increasingly costly raw materials, our proposition is to buy those plants for producing the components before the SH BOXES go into mass production. The capital expense to do so is estimated to be \$15 billion to \$20 billion for 200 plants. Each factory will cost approximately \$100 million, although we have identified suitable factories that can be negotiated for purchase for as little as \$40 million.

NRGLab will commit to the purchase of components from the Investor-Partner's plants for a 3-year contract.

The proposed exit strategy for our Group 4 investors is to sell the component manufacturing plants in two years for \$120 billion to \$140 billion, with a median price of \$300 million per facility. These estimates are based on the projected profitability of the plants at sale as a consequence of supplying components on an ongoing basis for the production of SH boxes.

5. Profiting for governments (countries) as participants of this project.

Generator (SH Boxes) production technology owned by NRGLab provides an opportunity to decrease a nation's dependence on energy imports at significant levels, while enhancing energy security through clean, environmentally-conscious technology. The use of SH boxes will provide extra profits for a government's budget.

To illustrate the potential of SH Boxes, Japan currently relies on LNG (liquefied natural gas) as an essential fuel. Japan purchases LNG at a price of approximately .28 kW/h as of December 2012. Germany purchases LNG on the open market for about the same price.

The cost of electricity production in these nations using current fuels and equipment is estimated to be .20 kW/h.

Gradually replacing outmoded technology with SH boxes will enable a government to produce electricity at .03 kW/h, increasing margins dramatically with less pressure and for significant profits.

Summarizing Our Plan for Clean, Profitable Electricity Production

The company is now ready to deliver the affordable electrical energy the world has been waiting for since the invention of the incandescent light bulb and electric generators more than a century ago. The company will be introducing generators (SH boxes) onto the market step-by-step, so that Investors of crude oil and natural gas sectors have enough time for reinvestment. NRGLab's generators (SH boxes) will become a gradual and rational revolution in the way the world produces and consumes electric power well into the current century.

This is our story and this is our plan for delivering electricity to billions of people throughout the world at a cost so affordable that it was previously unimaginable, as are the potential profits to be realized as the company (with our Investor) accelerates production.

Investors devote their professional lives in searching for the next, great quantum leap in technological advances within industries that drive the world economy. Thank you for allowing us to demonstrate, conclusively, that crystal manufacturing for NRGLab's SH boxes is indeed the Next Great Thing in energy production that will not only improve lives, but will actually improve environmental issues affecting the industrialized nations of the world as well as developing countries poised for growth. In fact, today virtually all countries are exposed to marine pollution, which is caused by refinery waste spread into the oceans. All serious cases of marine pollution are connected with crude oil. As a result of the widespread practice of washing the holds of oil vessels, an estimated 8 to 20 million barrels of crude oil annually pour into the ocean. As a result of wreckages of big oil vessels, for the last 40 years nearly 1 million tonnes of crude oil were released into the ocean.

NRGLab takes its corporate responsibility seriously –to our investors and to the end users of our products. Both of these constituents can expect to benefit tremendously, as detailed in the remainder of this business plan.

With this green technology, more electrical energy can be produced at significantly lower cost. The energy produced is absolutely clean – no pollutants or CO₂ emissions are released into the environment as a result of using poly crystals for electricity generation. Generator modules are also easily scalable and simple to operate, allowing them to supply power for both industrial and residential use for up to a decade with a single installation.

Before spring 2013, our company will complete agreements of intention to partner with the governments of at least 10 countries, principally in Asia, to focus on electricity production. In our conversations, the government officials of these nations tell us they want to produce electricity for \$0.03 per kW and sell it for \$0.22-0.26 per kW (in Singapore, Indonesia, Malaysia, China), and for \$ 0.28 per kW in Japan. However, they are unable to produce electricity and sell it at such margins at the present time due to the high expense of liquefied natural gas (LNG) and turbines, as well as fossil-fuel burning, both of which are known to cause environmental problems in addition to the significantly higher expense.

Our generators (SH boxes) are scalable and solve the problems of electricity generation to extent that may be required. Our experience shows conclusively that our generators (SH boxes) when deployed at scale can produce electricity at the rate of \$0.015-0.03 per kW – well within the desired price range of the governments that wish to partner with us. As part of this business plan, we invite you to review the explanatory note of SH boxes production at the manufacturing plant, which we are going to construct in the near future.

Our founder has a robust scientific background and a compelling story to tell on an international stage, from New York to Singapore. Now we are poised to bring these generators (SH boxes) to nations throughout the world. “Green” is a buzzword used by many companies. Our generators (SH boxes) are powerful, reliable, affordable, effective and superior to many more costly and environmentally harmful energy alternatives.

Starting next year, our company intends to contract with manufacturing plants worldwide. We will sign the contracts with manufacturing plants on delivery of components by our agent in China. In November 2012 we signed the contract with our agent, the government organization GUTEX, which has an export license and comprehensive experience throughout the world.

Our business plan provides comprehensive details of our successful experience toward building an immensely profitable and environmentally sustainable alternative-energy company that can serve the world's energy needs. Our offer is to construct the manufacturing plants, which will produce generators (SH boxes).

The potential of our generators (SH boxes) is virtually limitless, as are the resulting profits we expect to produce.

We are fully prepared to emerge as a global player in the world energy marketplace with generators (SH boxes) unlike any others.

III. General Company Description, Mission & Business Objectives

NRGLab Pte. Ltd. (the company) is a science-driven company based in Singapore. The company researches and develops alternative-energy technologies for clean, reliable and affordable electrical power on a global scale.

In 2005, the scientists of NRGLab discovered the technology for generating energy from environmental heat. From that moment, NRGLab scientists realized every person on Earth would have the right to at least 1 kw of electricity per hour, 24/7. Low-cost electricity is now affordable for everyone, using the energy generated by NRGLab technology. We are now capable of producing environmentally friendly generators (SH boxes), which are easily scalable from 1 watt to 200kw per unit.

The company's goal is to construct the manufacturing plants. These plants will produce generators (SH boxes) for producing electricity. Each plant will build a product line consisting of 10,000 SH Boxes manufactured per year. Each box will have an output of 100 kW.

The company is now in the process of demonstrating to multiple governments that using oil, coal and gas for energy generation is 3 times more expensive than energy production with NRGLab's clean, efficient and affordable SH Boxes. The company's generators (SH boxes) create an energy conversion that is more efficient and less expensive, while simplifying the conversion process. Generators (SH boxes) will enable the price of producing electricity to go down to \$0.03 per kW.

The company will contract with 10 countries initially, and the first 10 SH Box production factories will be built in 2014. Within 15 years we expect all countries will be using SH boxes for energy production, either to supplement existing methods of generating electricity or replacing them altogether with SH Box technology.

Technical/Proprietary Advantages

The company has the following technical advantages:

It owns advanced information security programs for information coding,

It owns a common communication line.

The company maintains a mobile laboratory which allows the company to find more efficient materials and components, then test them remotely to save time and increase efficiencies.

The company does not participate in any international public conferences and respects private corporate policies.

Primary Competition in this Market Space

The company's primary competitors are ABB, Siemens, General Electric, Panasonic (Sanyo), and Evit, as well as companies producing windmills, solar panels, lithium batteries, and internal-combusting engines. The latter includes Mercedes and Toyota.

Competitive Advantages

The company has distinct and compelling advantages over these competitors. The company's technology is unique, proprietary, environmentally friendly (green energy), and is produced at a low price for this industry (\$0.03 per kW/ h). The company intends to gain market share from competitors as consumers and municipalities transition to power generation by less expensive poly crystal technology.

Estimated Growth

The company's growth potential is estimated as follows:

7 kW/h for personal use x 24/7 x 365 days.

Production of:

100,000 SH boxes in 2014

200,000 SH boxes in 2015

500,000 SH boxes in 2016

1,000,000 SH boxes in 2017

5,000,000 SH boxes in 2018

Barriers to Market Entry/Business Challenges

The company faces the following barriers/challenges:

The raw components for SH Boxes are not widely produced in the global market.

The company will overcome these challenges by encouraging suppliers to increase the production of the components. This strategy includes investment of the company's own financial resources, as well as working with governments to create incentives or subsidies for increased production of the raw components. Company officials are in talks with the leaders of multiple nations to explain the powerful benefits of the company's technology in providing affordable power generation.

Distribution of Product Line

The company's distribution channels for SH Boxes will include public energy retail suppliers and municipal electric systems/utilities.

Sales Projections:

The company's current international sales forecast:

100,000 SH boxes in 2014

200,000 SH boxes in 2015

500,000 SH boxes in 2016

1,000,000 SH boxes in 2017

5,000,000 SH boxes in 2018

Legal Hurdles/Regulations

At present, the only known legal requirements that may affect the company's business involve the anti-monopoly laws in effect within different countries. There are no environmental issues.

Company Staffing/Workforce

The company presently employs a full-time staff of 14.

The company projects 350 workers will be needed per factory for annual production of 10,000 SH Boxes per factory. Up to 3,500 workers will be required to reach production capacity at 10 factories by 2014.

Labor Costs

Labor costs at the manufacturing factory do not unduly influence the price point of the units, but the labor price at suppliers' factories does influence price.

Inventory

There will be no need for on-hand inventory. Demand for SH Boxes will be predictable and regulated by the company's supply plan. The company intends to reach production of 10,000 SH boxes per year in each of 10 countries by 2014.

Ramp-Up to Production Scale

One factory for producing 5,000 to 10,000 SH Boxes annually can be constructed within a year, in addition to one year needed for the project beforehand. Therefore, it will take 2 – 2.5 years to commence production of SH Boxes from the moment the licensee receives a license for the technology.

Start-up Expenses

The company's anticipated start-up and capital expenses are discussed and itemized in the Term Sheet (License Purchase Agreements) and controlling interest purchase, included as part of this document.

Information for Investors

The company anticipates no additional funding will be needed in the next 2-5 years.

The company will use funds to encourage suppliers to produce more components for SH production or to buy an interest in such companies' mining or factory operations.

The licensee being an Investor-Partner in manufacturing plant construction, who doesn't repurchase a License, will own 51% in the company (see Term Sheet)

Exit Strategy

The investors can exercise their right to exit with the consent of the company. The company's exit strategy includes sale of production factories and technology within 2-3 years for an estimated ROI (return on investment) of ~~XXXXXXXX~~.

Company Milestones, Threshold Conditions & Financial Reporting

All milestones, conditions and restrictions, as well as investor governance in the company and financial reporting protocols are outlined fully in the Term Sheet.

IV. Background on SH Boxes / Proof of Concept

The Company's Semiconductor Thermogenerator (SH or SH BOX if referring to big power modules) has a close analogue on the market that has been known since 1888. This well-known analogue is widely represented on the market as a solar generator, solar battery or photovoltaic modules that are combined into standard solar modules. Users are installing these modules on house roofs and other places easily accessible by sunlight. See Appendix 1 for Comparison Tables in features of Semiconductor Thermogenerator (SH) and Solar Modules (SM).

Unlike the 120-year history of the Solar Module, the SH crystal has a history of 6 years development. Following exhaustive research, the first SH crystal was born in New York in 2009. In early 2010 a crystal was working 72 hours under a constant load. In 2011 my scientific group moved from the US to Singapore with the goal of commercializing the project of growing electricity crystals (SH). Upon formation (complete growth) crystals are starting to produce constant power. On June 8, 2012, for the first time the Company demonstrated the process of growing such a crystal in the presence of independent witnesses. The crystal was formed within 20 minutes under normal conditions: ambient temperature 25 °C, humidity 55%. See Appendix 2 for the Test Report.

The purpose of this demonstration was to define the market demand and reaction to the product. The Company decided to move forward carefully and prepared Non-Disclosure Agreements for all participants (Appendix 6). Measures to prohibit video-audio recording have also been taken, instructions were given to the participants informing them of this prohibition -- see Appendix 2.2

The whole process was done in the presence of 7 independent witnesses and a public Notary who confirmed signatures of the witnesses in the Affidavits ("Affidavit" – witness statement of observed fact voluntarily made). See Appendix 5.

The Analyst of the Company gave safety instructions to the participants (Appendix 3) and explained the process of growing the crystal (Appendix 4). From this explanation it was understood that crystal can be grown in typical industrial conditions. The process itself is very simple and inexpensive. Immediately upon formation, the crystal of 0.1 gram produced 1 Volt of power. During the whole process all the witnesses present at the testing site observed the process and filed Affidavits by their own hands voluntarily. See Appendix 6.

Among the invited participants there were professional licensed electricians, a scientist, the director of the biggest law firm in Singapore and other independent witnesses. Upon test completion we responded to questions for one and a half hours from the electricians about the nature of the phenomenon. No confidential information has been disclosed despite the high interest of the participants.

The whole process was filmed. For access to the movie please forward a request to am@nrglab.asia.

With the results from the June 8 test we held negotiations with: Panasonic, Total, NCS, IBM, Khosla Ventures, Trade Commissioner Service of Canada, Olympus Capital, Enerkem Canada, Capricorn Venture Partners Belgium, ENOC Singapore, Sustainable Development Technology Canada, Sumitomo Corporation, Siemens, and Keytone Ventures from China. Besides negotiation with private companies, we had successful negotiations with Singapore ministries and departments such as the Economic Development Board (EDB), EDBI, National Environment Agency (NEA), National Research Foundation (NRF), and Exploit Technologies. Also, we held negotiations with major funds and investment companies: Prime Partner Corporate Finance Pte Ltd, Canaccord Genuity Singapore Pte Ltd, Hong Leong Finance Limited, DBS Bank, OCBC Bank. In addition, we held negotiations with government officials of different countries, and received a lot of comments and advice. In July the company received first funds for further development of the technology.

One of the suggestions that the company considered was to conduct a test with the participation of an independent laboratory and to obtain an expert evaluation from such laboratory on the achieved results. After a careful consideration the company chose a TUV-SUD-PSB independent laboratory to witness the test and render necessary reports of the results and the whole process. The company also invited high-ranking representatives and authorities to the second test. These second test participants were: NRF representative, NEA representative, DBS representative, Drew and Napier Law firm representative, TUV-SUD-PSB Independent lab representative (5 persons). The second test was conducted at the Company Testing Site in Singapore on September 13, 2012.

Schedule of the test was as follows:

Organizational Introduction of the Analyst (Appendix 14)

NDA and Log in form signing (Appendix 15)

Safety meeting protocol announcement and signing (Appendix 16)

NRGLAB Analyst Speech (Appendix 17) with progress information of NRGLab, including: new generation of SH crystals so called SH-6 generation with a working life of 8,000 hours under a constant load and ability to produce electricity for 1.5-2 cents per kilowatt.

It was demonstrated by an NRGLab Analyst that the process of manufacturing the SH-6 generation crystal is simple and time efficient (the whole process took approximately 15 minutes). SH-6 sample is a module of the future SH BOX. The SH BOX has a power output of 100 to 200 KW and is able to power the power grid or it can be used as a private generator. The participants signed Affidavits as evidence of witnessing the process (Appendix 18)

Independent laboratory TUV-SUD-PSP, upon SH-6 crystal manufacturing, measured the electricity output (that was equal to 5.44V) and Nuclear Radiation (that was normal). See attached laboratory test results Appendix 19 and 20.

Under the instruction given by NRGLab, the Independent laboratory continued with the tests of the SH-6 samples for the following 30 days (Appendix 21 – Test Schedule).

Four SH-6 samples were placed into a transparent box that was sealed and locked by an Independent Laboratory upon each test completion (Appendix 22- Chain of custody and Custody control).

One of the tests conducted by an Independent laboratory was a short-circuit test. The company asked for such a test to demonstrate the difference between a regular battery and the company's crystal technology. Four SH-6 Samples were placed under a short circuit for 24 hours. The results were amazing, as the samples within 24 hours didn't heat up and were still producing power upon circuit break. (See laboratory results from October 9, 2012 [Appendix 23].) No battery can withstand a short circuit for such a long time or to produce power upon short circuit break.

For thirty (30) days the Independent Laboratory monitored four SH-6 samples that were under a load. This is equal to 720 hours of work and the SH-6 samples are still not fully discharged yet. It's not a miracle; it's now an established fact.

The movie from the September 13 test can be provided upon request. Please send requests to am@nrqlab.asia

Now the company needs to move farther and scale up our crystals from small applications to a bigger application to power whole cities. The company will be manufacturing modules that will be placed inside the SH BOX. One SH BOX will deliver 100 KW to 200KW and can be used to support the power grid or for private use. Before proceeding further with this plan the company would like to find the right partner. The lawyer of the Company has prepared the documents with a description of the possible transaction with a partner (Appendix 24- Term Sheet).

V. Marketing Plan

The Company is moving forward with a marketing plan to introduce generators (SH boxes) production to venture capital and investment firms in North America and Asia. These efforts include full explanation of the technology behind SH Box power generation as well as demonstrations on proof of concept. The company is reaching out to more than 100 investment firms with a focus on energy production, especially clean, alternative energy.

In addition, the company is in contact with more than 75 world governments, and is in the process of setting up meetings with government officials at the company's offices in Singapore, or the governments' embassies in Singapore. Proof of concept materials are also being distributed to the ministries of energy in each of the target countries.

Company officials are in talks with the owners of relevant manufacturing plants, as well as international suppliers of the raw components for the manufacture of SH Boxes.

Feedback continues to be highly favorable, and the company anticipates negotiations with individuals representing all potential stakeholders by early 2013.

VI. Manufacturing Requirements

Manufacture of SH Boxes is a multi-step process, which consists of combining 12 components (raw materials) clustered in three groups. Each SH Box contains 100 plates fitted with the components for power generation. Each plate is manufactured in the dimensions of 500mm x 500mm square, with a thickness of 5 mm. The plates consist of aluminum pods fitted with the poly crystal components in the correct proportions for power generation. The plate array is fitted within a custom, industrial metal box similar in construction to the familiar power-junction boxes installed at key points within a municipal electric grid.

Each SH Box is capable of generating 100 kW/hour. For perspective, the average four-bedroom house with a typical array of appliances and heating-cooling systems will consume an average of 15 kW/hour. One SH Box can power six such houses 24/7 for 20 years before the components must be replaced.

Proportion and cost information for the 12 SH Box components is presented in the table below.

SH Box Component	% of Total Mass/SH Box	Price U.S/Ton
Group 1	2%	\$5,000
Group 2	1%	\$1,500
Group 3	20%	\$500
Group 4	20%	\$200
Group 5	8%	\$3,000
Group 6	8%	\$1,000
Group 7	8%	\$15,000

Group 8	8%	\$6,000
Group 9	8%	\$1,500
Group 10	8%	\$2,500
Group 11	9%	\$800
Group 12	0.01%	\$1,000

\$90,000 is the payment per one generator (which has a lifespan of 20 years). This expense is paid at the time of signing the contract.

Dividing \$90,000 by 20 years, we derive the annual generator expense of \$4,500. Dividing this sum by 12, we derive a monthly generator expense of \$375.

VII. Management and Organization

Management of the Company

The Company Board will consist of 5 Directors.

The principal director will have at least 10 years of direct energy business experience.

In case of contingencies or succession, the principal director's position will be assumed by another director on the board.

VIII. Appendices

Table of Countries for License Auction

№	Country	Cost of License, USD	Preliminary market evaluation, USD
1	Philippines	54,801,000.00	274,007,000.00
2	Vietnam	36,904,000.00	184,521,000.00
3	Thailand	85,895,000.00	429,476,000.00
4	Myanmar	9,353,000.00	46,769,000.00
5	South Korea	273,485,000.00	1,367,429,000.00
6	Malaysia	71,947,000.00	359,736,000.00
7	Uzbekistan	12,012,000.00	60,062,000.00
8	Saudi Arabia	99,706,000.00	498,530,000.00
9	Hong Kong	63,467,000.00	317,338,000.00
10	Papua New Guinea	1,706,000.00	8,534,000.00
11	Singapore	55,355,000.00	276,776,000.00
12	Switzerland	63, 694, 000.00	318 ,474 ,000.00
13	Portugal	40, 819, 000.00	204 ,099, 000.00
14	Spain	251, 952, 000.00	1 ,259 ,764 ,000.00

**Comparison of Semiconductor Thermogenerator Modules (SH) and Solar Modules (SM)
Installation, Maintenance, Operations**

Features	SH	SM
CAUTIONS		
All instructions should be read and understood before attempting to install, wire, operate and maintain the generating modules (GM). Contact with electrically active parts of the module, such as terminals, can result in burns, sparks and lethal shock whether the module is connected or disconnected.	•	•
GM generates electricity (direct current) when exposed to sunlight or other light sources.	⁽¹⁾	•
The shock hazard increases as modules are connected in parallel, producing higher currents, and as modules are connected in series, producing higher voltages.	•	•
To avoid the hazard of electric shock, work only in dry conditions, with dry modules and dry tools.	⁽²⁾	•
To avoid the hazard of electric shock and injury, be sure to completely ground.	•	•
Two or more people should carry a module and wear nonslip gloves.	⁽³⁾	•
Do not disconnect terminals while modules are generating electricity and connect electrical load to avoid the hazard of electrical shock.	•	•
GM surface gets hot.		•
<p>Notes:</p> <p>(1) SH module (SH BOX) generates electricity when exposed to environment (indoors or outdoors).</p> <p>(2) SH modules are ready to install inside a box (SH BOX), so the installation of this module does not depend on weather conditions. However, precautions when working with electricity and electric tools must be taken.</p> <p>(3) The dimensions of the SH module allow for one person to easily transfer and mount it.</p>		
GENERAL SAFETY		
Be sure that the construction or structure (roof, etc.) where the modules are being installed has enough strength. For modules mounted on roofs, special construction or structures may be required to help provide proper installation support.		•

**Comparison of Semiconductor Thermogenerator Modules (SH) and Solar
Modules (SM)
Installation, Maintenance, Operations**

Both roof construction and module installation design have an effect on the fire resistance of a building. Improper installation may contribute to fire hazards.	(4)	•
Notes: (4) SH modules are fire safe, due to their non-heat nature. SH BOX does not require installation on the roof. It can be installed on the ground.		
INSTALLATION		
Modules should be firmly fixed in place in a manner suitable to withstand all expected loads, including wind and snow loads.	(5)	•
For a non-integral module or panel, the assembly is to be mounted over a fire-resistant roof covering rated for the application.		•
Appropriate material should be used for mounting hardware to prevent the module frame, mounting structure and hardware itself from corrosion.		•
Modules must be installed where they are not shaded by obstacles such as buildings and trees.		•
Partially shading the modules during daytime hours will reduce the efficiency of the module.		•
Clearance of 11.5 cm between the roof surface and module frame is required to allow cooling air to circulate around the back of the module.	(6)	•
Notes: (5) SH modules are placed inside a box (SH BOX), so it does not depend on the wind and snow loads. (6) SH BOX can be mounted to a wall, floor, ceiling, technical building voids, attics, basements and shades. It requires no additional conditions on the mounting site.		
OPERATING CONDITIONS		
The module must only be operated in stationary conditions.		•
The ambient temperature should be between -20°C (-4°F) and 40°C (104°F).	(7)	•
The relative humidity should be between 45% and 95%.		•

**Comparison of Semiconductor Thermogenerator Modules (SH) and Solar
Modules (SM)
Installation, Maintenance, Operations**

The wind pressure load of the installation site should be less than 2,400 N/m ² (50 PSF).		•
<p>Notes:</p> <p>(7) SH modules are installed inside a box (SH BOX) that is thermo proof and can withstand almost any temperature conditions.</p>		
SPECIAL CONDITIONS (possibility of installation under such conditions)		
Salt damage is severe at the installation site.	•	
Excessive hail and snow damage at the installation site.	•	
Excessive sand and dust damage at the installation site.	•	
Excessive air pollution, chemically active vapors, acid rain, soot, etc., at the installation site.	•	
SPECIFICATIONS		
Under normal conditions, a module may produce more current and/or voltage than reported during standard component test conditions.	(9)	•
When installing a GM array, the system design must be completed with reference to the module electrical specifications for proper selection of inverters, fuses, breakers, charging controllers, batteries and other storage devices.	•	•
The modules equipped with a junction box contain terminals for positive and negative polarity and bypass diodes.	•	•
<p>Notes:</p> <p>(9) Voltage and current are stable.</p>		
BYPASS DIODES		
When the modules in series strings are partially shaded, reverse voltage across cells or modules may be caused because the current from other cells in the same series is forced to flow through the shaded area. This may cause undesirable heating to occur.		•

**Comparison of Semiconductor Thermogenerator Modules (SH) and Solar Modules (SM)
Installation, Maintenance, Operations**

The use of a diode to bypass the shaded area can minimize both heating and array current reduction.		•
MAINTENANCE		
Some maintenance is recommended to maintain optimal output performance of the GM	•	•
When module surface becomes dirty, it may reduce output power.		•
It is recommended to clean the surface of the module with water and a soft cloth or sponge.		•
If you need electrical or mechanical inspection or maintenance, it is recommended that a licensed/authorized professional carry out the inspection or maintenance to avoid the hazards of electric shock or injury.		•
PERFORMANCE AND WARRANTY		
Modules shall achieve power output of no less than 80% of the minimum peak power output measured at an optimum voltage under standard test conditions for the period of twenty-five (25) years from date of sale to the end customer. If the module fails to conform to this warranty during the period specified in this paragraph, the company shall remedy the output deficiency in its sole discretion by either: - providing extra modules to make up the output deficiency, or - repairing or replacing the modules.	•	•

SPECIFICATIONS

Electrical Specifications

MODEL:		SH (standard)	SM (standard)
The number of cells in the system		250	26
Rated power, W (maximum pressure)	W	100	100
Maximum power voltage (V/min)	V	12.0	29.4
The maximum power current (I/min)	A	8.34	7.83
Open circuit voltage (Voc)	V	16	37.0

Comparison of Semiconductor Thermogenerator Modules (SH) and Solar Modules (SM)

Installation, Maintenance, Operations

Short-circuit current (I/sc)	A	9.2	8.42
Cell type		poly	poly
Maximum system voltage (Voc)	V	1000	1000
Maximum over current	A	16	15
Factory-installed bypass diodes		6	3

Mechanical Specifications

MODEL:		SH (standard)	SM (standard)
Length	mm	500	1658
Width	mm	500	986
Height	mm	50	50
Weight	kg	15	23

Note: SH module weight may be reduced to 1.5 kg for 100 W. An additional cost may apply.

Additional Specifications

SH	SM
SH volume is 12,500,000 mm ³ per 100 W.	SM volume is 120,000,000 mm ³ per 100 W.
Working time equals 8,760 hours/year.	Working time equals 2,555 hours/year.*

*Working time of SM is 10 hours a day at a rate of “full sun” with a coefficient of 0.7.

SUMMARY:

SH works 3.5 times more efficiently than SM.

SH generator is more stable, more mobile and less expensive to manufacture and maintain than SM.

APPENDIX 2

TEST REPORT

Report No: SH 900/12

Date: June 8, 2012

Object: The process of conception and birth of the crystals.

Participants: Two Independent certified electricians, 1st Independent Observer, 2nd Independent Observer, representing TSMP Law Corporation, 2 NRGLab representatives, 2 NRGLab Analysts, Public Notary.

Lab Environment Conditions:

Ambient Temperature: $25\pm 3^{\circ}\text{C}$

Relative humidity: $55\pm 20\%RH$

We have observed the process of conception and birth of the crystals. The crystals were formed within 20 min. with an area of approximate 1 sq. millimeter, weight of 0.09 grams on an aluminium strip approximately 2mm wide and 70mm in length. This aluminium strip has been placed in a water, alkaline or acid-free liquid, after which the incubator was switched on for 20 min.

Upon formation of the crystal on an aluminium strip, the strip has been placed in a glass pipe approximately 60mm in length and a 3mm inner diameter with a prepared carbon fabric inside (paragraph #9 of Analyst test speech/paragraphs #7 and #8 of Observers Affidavits). SH1 sample has been finished by sealing both sides of the glass pipe with acrylic glue.

The voltmeter was switched on for measuring Voltage of the SH1 sample; it showed 1.96 Vaults.

Please see attached participants Affidavits for more information. Affidavits available upon request.



Sergey Sorokin
Director

APPENDIX 2.2

- 1) Please sign the non-disclosure agreement (NDA).
- 2) Put on your safety glasses, protective shoe covers and protective ropes before we proceed.
- 3) Photo/video recording of any kind is completely prohibited during our test.
- 4) Safety protocol: We have an electric device that we switch off in any emergency situation. If any flames or electric sparks occur, the fire extinguisher is in the left corner of the room (please do not run to it – as Sergey Sorokin is responsible for doing so). We have some alcohol liquid from Viscoil's laboratory in the USA. In case of contact with skin or eyes, immediately wash / flush with plenty of water. The restroom is located on the 3rd floor, straight from the door; the door is located behind you and marked with an exit sign. In case of any emergencies please proceed to the exit one by one.
- 5) Please sign the Safety Meeting Protocol that you acknowledge all safety instructions I gave to you now.
- 6) Please fill in the first 4 points of the Affidavit.

NRGLAB ANALYST TEST SPEECH:

APPENDIX 4

Ladies and Gentlemen,

1. Before we proceed with the test, I will give you a short introduction. Our goal will be to show you the process of birth and growth of the crystal in an ethanol environment (denatured alcohol). We claim that this crystal will grow in a water-free, alkaline-free, acid-free environment. This process is a know-how of our company and will be demonstrated to you now for the first time. No other company in the world has such a process or the know-how to develop such a process.
2. The process of conception and birth of the crystals will be held in this glass test tube № 1 of 50 ml at atmospheric pressure and a temperature of about +30 degrees Celsius.
3. The crystal will form within 20 minutes. But now we have an improved version of the process, where the crystals grow for up to 10 seconds. The crystals of 0.7-1 square millimeters with voltage of about 0.5-2 Volts are produced within 20 minutes. These crystals are able to live with such indicators on a single charge for about 1 (one) year.
4. Let's proceed with the test. I will ask you to look carefully in your Affidavits as you will need to fill them on-line during the test. The clock is located in the right corner of the table. Please use it to fill in the Affidavits.
5. Now let's start the demonstration process. In front of you, you see the laboratory stand and two paws. The upper paw is holding an electrical cable with a clip that is connected to an apparatus (incubator). The lower paw is holding a 50ml glass test tube № 1 with liquid. This glass test tube № 1 is connected to the apparatus (incubator) with an electrical cable. The apparatus (incubator) is connected to a regular power socket.
6. My assistant is now taking an aluminum strip approximately 2mm wide and 70mm in length (**POINT 4**). He will fix it perpendicularly to the cable clip, but before that we need to weigh it. We put this aluminum strip on the scales and see that it weighs (**POINT 4**). Please also write down the weight we have just received. The crystal will be

produced at one end of the strip in the water, alkaline or acid-free liquid. This liquid has been pre-selected by lab technicians of Viscoil in California, USA.

7. Now my assistant is going to pull down the aluminum strip into the liquid in glass tube № 1. Please write down in your Affidavit what time _____ it _____ is _____ now

(POINT 5). I put down one end of the aluminum strip (approximately half of the strip) into the liquid, which has been pre-selected by lab technicians of Viscoil in California.

8. Now I turn on the incubator. Please, write down in your Affidavit what time it is now **(POINT 6)**. We will wait for 20 minutes, during which time the process of the crystal birth will take place on this strip.

9. While we wait I will prepare part of a future SH1 Sample by using a glass tube-pipe № 2. I'm taking a glass tube (pipe) № 2 approximately 60mm in length with a 3mm inner diameter and placing the carbon fabric of approximately 70mm in length through one end of the tube (inside the tube). I place carbon fabric into the tube (pipe) № 2 at approximately 55 mm and I leave 15mm outside.

10. Now I'm going to seal the glass tube (pipe) № 2 with acrylic glue on that side of the tube where the end of the carbon fabric (15 mm) left outside. I place the sealed end of the glass tube (pipe) № 2 under the UV lamp for 3 minutes to let the glue dry.

11. **(One minute before switch off the incubator)** My next goal is to attach the electrode to the aluminum strip. Now I switch off the incubator **(POINT 9)**. The aluminum strip is now removed from the liquid and we can see the formation of crystals of approximately 0.7 square millimeters. My assistant is placing this aluminum strip on the scales. The weight is _____ **(POINT 9)**.

12. **(POINT 10)** Let's calculate the weight of the pure crystals with the liquid left over without the aluminum strip, which is _____.

13. My assistant puts the aluminum strip with the crystals inside the glass tube (pipe) № 2 (the side with the crystals). Now I hermetically seal the other end of the tube with acrylic glue. This glue needs to be

- dried with a UV lamp. I take the lamp, switch it on and dry the end of the tube within about 3 minutes.
14. The final stage of this experiment is a measurement of the voltage. First, we test a battery (**POINT 16**). Now we have a complete SH1 Sample.
 15. Please, look on your right; you will see 4 SH1 Samples connected together (**write down the time and a number of SH1 Samples in POINT 17**) and it is connected to a light bulb with a _____ Vault (**POINT 18**).

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AFFIDAVIT	宣誓书
<p>of <u>Sin Kup Song</u> (Independent Observer)</p>	<p>由 _____ (独立观察员)</p>
<p>BEFORE ME, the undersigned Notary, personally appeared <u>Sin Kup Song</u>, who, being by me duly sworn, stated as follows:</p>	<p>在我面前，签字公证员，亲自出现 _____，他/她被我正式宣誓就职，所述如下：</p>
<p>1. My name is <u>NG TIAH NAM</u>. I am an electrician with <u>Kup Electrical Engineering P/L</u> and my license number is <u>8/23559</u>. I am of sound mind, over the age of 18 years, capable of making this affidavit, and personally acquainted with the facts stated in this affidavit.</p>	<p>1. 我的名字是 _____。我是一名电工，有 _____ 和我的牌照号码 _____。我心智健全，超过18岁，能够写作此宣誓书，和亲自理解此宣誓书所述事实。</p>
<p>2. My address is _____</p>	<p>2. 我的地址是 _____。</p>
<p>3. On the <u>08</u> day of June, 2012, I arrived at _____ (the "Test Site") and observed a table with a laboratory stand and two paws. The upper paw was holding an electrical cable with a clip that was connected to an apparatus (incubator). The lower paw was holding a 50ml glass test tube labeled No.1 with liquid. This glass test tube No.1 was connected to the apparatus (incubator) utilizing an electrical cable. The apparatus (incubator) was connected</p>	<p>3. 在2012年6月 _____ 日，我来到154 _____ “测试网站”），并观察到一个设有实验室支架和两个夹子的桌子。上面的夹子持有一条电缆和连接设备（孵化器）的夹。下面的夹子持有一个标记1号并装有液体的50毫升玻璃管。这个1号玻璃管通过一条电缆连接到设备（孵化器）上。此设备（孵化器）与一个普通的电源插座连接。</p>

to a regular power socket.

4. At 9:56 am I observed that an Analyst with NRGLab took an aluminum strip approximately 2mm wide, 70 mm in length and with a weight of 0.02 grams, and fixed it (perpendicularly to the table) to the cable clip of the upper paw of the laboratory stand.

5. Thereafter, at 9:57 am, I observed that the Analyst of NRGLab carefully pulled down (perpendicularly to the table) the fixed aluminum strip into the glass test tube No.1 with liquid. The aluminum strip was lowered approximately 2 (two) cm into the liquid.

6. At 9:58 am, I observed that the apparatus (incubator) was turned on by the Analyst of NRGLab.

7. Thereafter, I observed the Analyst of NRGLab take a glass tube (pipe) labeled No. 2, approximately 60mm in length, with an inner diameter of 3mm, and place a carbon fabric approximately 70mm in length through one end of the tube (inside the tube). I observed that approximately 55mm of the carbon fabric was placed into the tube (pipe) No. 2 and 15 mm of it was left outside.

8. Thereafter, I observed the Analyst of NRGLab seal the glass tube (pipe) No. 2 with acrylic glue from that side of the tube (pipe) where the end of the carbon fabric (15 mm) was left outside. I observed that the sealed end of the glass tube (pipe) No. 2 was placed under a UV lamp for 3 minutes to dry the acrylic glue.

4. 在_____我观察到那位携有NRGLab的分析师，用一条约2毫米宽，70毫米长，重约_____克的铝带，将其固定（与桌子垂直）到实验室支架的上方夹子上。

5. 此后，在_____，我观察到那位携有NRGLab的分析师小心翼翼地拉下那条（与桌子垂直）固定的铝带，并将其放进含有液体的1号玻璃管中。铝带被放置到液体中约2厘米深。

6. 在_____我观察到那位携有NRGLab的分析师将设备（孵化器）打开。

7. 此后，我观察到那位携有NRGLab的分析师将一个玻璃管（管）标记为2号，其长约60毫米，内径3毫米，并从试管的一端（管内）放进一条长约70毫米的碳纤维织物。我观察到约55毫米长的碳纤维织物被放置到2号管（管）内，15毫米的碳纤维织物被留在外面。


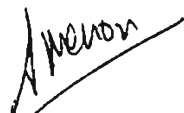

8. 此后，我观察到那位携有NRGLab的分析师用丙烯酸胶（acrylic glue），从留有15毫米的碳纤维织物的一端将2号玻璃管（管）密封。我观察到被一端密封的2号玻璃管（管）被放置在紫外灯下3分钟，以干燥丙烯酸胶。

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<p>9. At <u>10:18 am.</u> I observed that the apparatus (incubator) was turned off by the Analyst of NRGLab. Thereafter, I observed that the aluminum strip was pulled out from the liquid and had a formation of crystals of approximately 0.7mm². I observed the Analyst of NRGLab place this aluminum strip on the scales. The weight was <u>0.11</u> grams.</p> <p>10. Based on the weight measurements set forth in paragraphs 4 and 9, I calculate the weight of the pure crystals with the liquid left over and without the aluminum strip to be <u>0.09</u> grams.</p> <p>11. To the best of my knowledge, during the work of the apparatus (incubator), no chemicals or any other materials were added into the glass test tube No.1 containing the liquid and the aluminum strip.</p> <p>12. Thereafter, I observed the Analyst of NRGLab place the aluminum strip (approximately 50mm of it) with formation of the crystals inside the glass tube (pipe) No.2 from the unsealed end; 20mm of the aluminum strip was left outside from the second end of this tube.</p> <p>13. After observing the Analyst of NRGLab place the aluminum strip inside the glass tube (pipe) No. 2, as set forth in paragraph 12, I observed the Analyst of NRGLab seal with acrylic glue that side of the glass tube (pipe) No. 2 where the aluminum strip (20 mm) was left outside. I observed that the second sealed end of the glass tube (pipe) No.2 was placed under the UV lamp for 3 minutes to dry the glue.</p>	<p>9. 在 _____ 我观察到那位携有NRGLab的分析师将设备（孵化器）关闭。此后，我观察到那条铝带被从液体拉出，并有约0.7平方毫米的晶体形成。我观察到那位携有NRGLab的分析师将此铝带放在秤上。其重量是 _____ 克。</p> <p>10. 根据第4和第9条所测量的重量，我计算，除掉铝带的重量，所得到的液体纯晶体的重量是 _____ 克。</p> <p>11. 据我所知，在设备（孵化器）操作过程期间，无化学品或任何其它材料被加入到含有液体和铝带的1号玻璃管中</p> <p>12. 此后，我观察到那位携有NRGLab的分析师将形成有晶体的铝带（约50毫米长），从未封闭的一端放进2号玻璃管（管）中，20毫米的铝带被留在该管另一端的外面。</p> <p>13. 观察那位携有NRGLab的分析师将铝带放进2号玻璃管（管）内，如第12段所示，我观察到那位携有NRGLab的分析师用丙烯酸胶，从留有铝带（20毫米）的一端，将2号玻璃管（管）密封。我观察到第二次被密封的2号玻璃管（管），被放置在紫外灯下3分钟，以干燥胶水。</p>
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<p>14. To the best of my knowledge, during the performance of the NRGLab's Analyst, as set forth in paragraph 12, except for the aluminum strip with the crystals, no chemicals or any other materials were added to the glass tube (pipe) No. 2.</p>	<p>14. 据我所知, 在那位携有NRGLab的分析师的操作期间, 如第12段所述, 除了携有晶体的铝带, 无化学品或任何其它材料被添加进2号玻璃管(管)中。</p>
<p>15. Sealed from both ends, the tube (pipe) No. 2 with the aluminum strip with the formation of the crystals inside and the carbon fabric inside was named by the Analyst of NRGLab as SH1 Sample.</p>	<p>15. 两端被封闭的管内含有形成晶体的铝带和碳纤维织物的2号管(管), 被那位携有NRGLab的分析师称为SH1样品。</p>
<p>16. After observing how the Analyst of NRGLab sealed and dried the glass tube (pipe) No.2, as set forth in paragraph 13, I observed the Analyst of NRGLab put one probe of a voltmeter to the aluminum strip end left outside of the tube (pipe) No.2 and other probe of a voltmeter to the carbon fabric left outside of the tube (pipe) No.2. I observed that the voltmeter showed voltage, which was <u>0.87</u> Volt.</p>	<p>16. 经过观察那位携有NRGLab的分析师密封和干燥2号玻璃管(管), 如第13段所述, 我观察到那位携有NRGLab的分析师把电压表的一个探头放在2号管(管)外面铝带的一端上, 和把电压表的另一个探头放在2号管(管)外面的碳纤维织物上。我观察到电压表显示了电压, 其是 _____ 伏特。</p>
<p>17. At <u>10:29 am</u>, the Analyst of NRGLab showed me the battery <u>4</u> that consisted of _____ SH1 Samples.</p>	<p>17. 在 _____ 那位携有NRGLab的分析师向我显示了含有 _____ SH1样品的电池。</p>
<p>18. I observed that this battery was connected to a light bulb rated at <u>1.96</u> Volt. I observed that the light bulb was flashing.</p>	<p>18. 我观察到这个电池被连接到一个额定功率为 _____ 伏特的灯泡上。我观察到灯泡闪烁。</p>
<p>19. To the best of my knowledge, no other cables or devices were connected to the battery or the light bulb during this entire process.</p>	<p>19. 据我所知, 在其整个操作过程中, 没有其它电缆或设备被连接到电池或灯泡上。</p>

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NRGLab - 宣誓书 - 2012年6月8日 - 独立观察员_电工 1

Affirmed/Sworn by the abovenamed) )	为上述确认/宣誓))
On the 08 day of June 2012)	于2012年6月_____日)
In the presence of) Sumitri M Menon	在_____存在下)
Before me,	在我面前,
 A Notary Public/Commissioner For Oaths	_____ 公证人/监督员
 A Notary Public/Commissioner For Oaths Seal	_____ 公证人/监督员盖章

CONFIDENTIALITY AND NON-SOLICITATION AGREEMENT

保密和竞业禁止协议

Date: 08.06., 2012

日期: 2012 年 _____

Visitor's Full Name:

来访人全名:

Srin Kup Seng.

Visitor's Address:

来访人地址:

Singapore Street

Representing:

代表机构:

Kup Electrical Engineering Pte Ltd.

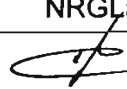

Address:

地址:

Singapore Street

This CONFIDENTIALITY AND NON-SOLICITATION AGREEMENT (the "Agreement") is entered into as of the date first above written among NRGLab Pte.Ltd., a Singapore private company limited by shares or any or all of its respective affiliates, subsidiaries or associates (collectively these entities are defined as "NRGLab") and Srin Kup Seng., a representative of Kup Electrical Engineering Pte Ltd. (the "Visitor"). In consideration of NRGLab

本保密和竞业禁止协议（以下称“协议”）自以上所书制最早之日起在 NRGLab 私人有限公司，作为一家新加坡私人股份制有限公司或其任何或全部代表处、分支机构或合作方(这些机构和单位统一定义为“NRGLab”)和代表 _____ 的 _____ (以下称“来访人”)之间达成书面共识。介于 NRGLab 提供来访人进入 NRGLab 设备基地的通路，来访人在此同意以下条款:

NRGLab	Visitor (来访人)
	

providing the Visitor with access to the premises of NRGLab, Visitor hereby agrees to the following:

1. Visitor may be given access to certain information that is proprietary, non-public, confidential and/or a trade secret (the "Confidential Information") concerning NRGLab, through the Visitor's relationship with NRGLab or as a result of the Visitor's access to NRGLab's premises.

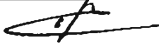

2. Visitor understands and acknowledges that Confidential Information of NRGLab as used in this Agreement shall mean any and all information disclosed to Visitor by NRGLab, either directly or indirectly, in writing or orally, whether or not marked confidential. The term "Confidential Information" does not include any information: (i) that at the time of disclosure to Visitor or thereafter is generally available to and known by the public (other than as a result of a disclosure by Visitor in contravention of this Agreement); (ii) that is or was received by Visitor on a non-confidential basis from a source other than NRGLab who is not prohibited (to the Visitor's knowledge) from transmitting the information to Visitor by a confidentiality agreement with or other contractual, legal or fiduciary obligation to; (iii) heretofore disclosed to Visitor by NRGLab on a non-confidential basis pursuant to a written agreement with NRGLab; or (iv) that was known by Visitor prior to disclosure hereunder and is not (to the Visitor's knowledge) subject to a confidentiality obligation by Visitor to NRGLab.

3. In consideration of being admitted to NRGLab's premises, Visitor will hold Confidential Information that is disclosed to him/her in the strictest confidence.

1. 介于来访人将获准进入 NRGLab 设备基地，通过与 NRGLab 的互动关系，来访人可能接触到相关信息涉及 NRGLab 私有的、非公开的、保密的、和/或交易秘密（以下称“保密信息”）。

2. 来访人理解并认知此协议中有关 NRGLab 的保密信息是指 NRGLab 披露给来访人的任何和全部信息，无论信息是否带有保密标识。“保密信息”不包括任何以下内容：(i) 在信息披露给来访人当时或者之后已为公众知晓的信息（不包括因来访人违反此协议规定而向外披露的信息）；(ii) 由来访人基于非保密基础上从除 NRGLab 以外的第三方所接收到的非保密性信息，此第三方（就来访人的知情程度而言）向来访人传递信息，不受相关协议、法律或信托责任的制约。(iii) 在此之前由 NRGLab 依照书面协议基于非保密的基础上披露给来访人的信息；或者 (iv) 在此披露前来访人已经获知并（就来访人的知情程度而言）不隶属来访人需对 NRGLab 履行的保密责任范畴。

3. 介于来访人将获准进入 NRGLab 设备基地，来访人将对向其披露的保密信息进行严格保密。若无 NRGLab 的书面批准，来

NRGLab	Visitor (来访人)
	

Visitor will not remove any document, equipment or other materials from the premises of NRGLab without NRGLab's written permission. Visitor will not photograph or otherwise record any information to which Visitor may have access during his visit.

4. Visitor agrees to cause any and all organizations he may represent to be bound by the terms of this Agreement, as if they were parties hereto.

5. Visitor agrees to release NRGLab from and against any and all liabilities, claims and causes of action for personal injury, death or property damage (except in the case of gross negligence or willful misconduct) against NRGLab as a result of the Visitor's entry to NRGLab's premises. Visitor further agrees to comply fully with all rules, regulations and instructions issued by NRGLab regarding his actions upon entering or leaving the premises.

6. Visitor agrees to indemnify, defend and hold harmless NRGLab from all actions, expenses and costs (including attorney's fees) of any kind resulting from his breach of this Agreement.

7. This Agreement shall be governed and construed in accordance with the laws of the Republic of Singapore, and any dispute arising hereunder shall be resolved in courts located within the City of Singapore.

8. This Agreement has been prepared both in English and Chinese. In the event of any inconsistency, the English version shall apply and be binding upon the parties.

9. This Agreement constitutes the entire

访人无权从 NRGLab 设备基地带走任何文件、设备或者其他资料。来访人无权取录在来访过程中接触到的任何信息。

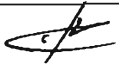

4. 来访人同意促成本人所代表的任何和所有机构如同协议签订方，受到此协议中条款的制约。

5. 来访人同意对因来访人进入 NRGLab 设备基地而可能受到的个人伤害、死亡或财产损失(除因重大过失或蓄意伤害的情况)的任何和所有责任、申诉和诉讼，NRGLab 均得免责。并且，访问者同意完全遵守 NRGLab 所示关于进入或者离开设备基地的规章制度和指导事项。

6. 对来访人违反此协议规定而引起的所有行为后果、费用和开销(包括律师费)，来访这同意赔偿，为 NRGLab 辩护，使 NRGLab 免于法律责任。

7. 本协议受新加坡共和国法律管辖，并依照该法律进行解释。由本协议引起的纠纷应交由新加坡市境内法院进行仲裁。

8. 本协议用英文和中文书就。如两个版本内容存在歧义，概以英文本为准。

NRGLab	Visitor (来访人)
	

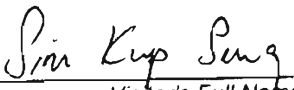
understanding between NRGLab and Visitor with respect to its subject matter. It supersedes all earlier representations and undertakings, whether oral or written.

Affirmed and agreed to as of the date first written above.

NRGLab Pte.Ltd., a Singapore private company limited by shares

By 
Sergey Sorokin
Director

By 
Visitor's Full Signature


Visitor's Full Name

Representing the following parties:

Kup Electrical Engineering Pte Ltd.

9.本协议构成 NRGLab 和来访人之间关于主题事项的完整协议和了解, 并取代所有以前双方就此事项达成的书面或口头表述和协议。

自以上所书之最早之日起即确认达成协议。

NRGLab 私人有限公司, 作为一家新加坡私人股份制有限公司

签字 _____
Sergey Sorokin
主管

签字 _____
来访人全签

来访人全名

代表以下机构:


NRGLab	Visitor (来访人)

APPENDIX 14

- 1) Please sign the non-disclosure agreement (NDA).
- 2) Put on your safety glasses, protective shoe covers and protective ropes before we proceed.
- 3) Photo/video recording of any kind is completely prohibited during our test.
- 4) Safety protocol: We have an electric device that we switch on in any emergency situation. If any flames or electric sparks occur, the fire extinguisher is to my right (please do not run to it – as Sergey Sorokin is responsible for doing so). We have some components for our test. In case of contact with skin or eyes, immediately wash / flush with plenty of water. The restroom is located on the 1st floor, behind me; the door is located to my right and marked with an exit sign. In case of any emergencies please proceed calmly to the exit one by one.
- 5) Please sign the Safety Meeting Protocol that is currently being passed around to acknowledge that you have received and understood all safety instructions I gave you.
- 6) Please fill in the first 3 points of the Affidavit.

NRGLab Pte Ltd, Singapore

APPENDIX 15
document 1 of 7

Visitor's Log - Entry		Identification No: _____	
Entry Date	13 Sep 2012	Time In:	11 am
Name	Cheng C		
Company Name	NEA	Declaration of Personal Items	
Person Visiting (Name of Staff)	Cheng C	Personal Computer	Video/digital camera
Purpose of Visit	Observe crystal test	Mobile Phones	Others
By signing on the right, you acknowledge that you have read and understood the rules stated below:		Sign In	

Visitor's Rules and Regulations

- ① Do not disclose any confidential information that you have observe or have access to
- ② Do not use any form of recording (audio/video)
- ③ Do not handle any equipment / material without permission
- ④ Do not use any form of removable media (e.g. Thumb drive, SD cards, portable hard disk) to connect to company property.
- ⑤ Do not use any personal portable computer, tablet to access company network.
- ⑥ In case of emergency, Remain calm, do not panic and wait for instructions from staff.

Sign Out		Time Out	12:01 pm
-----------------	---	-----------------	----------

CONFIDENTIALITY AND NON-SOLICITATION AGREEMENT

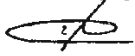
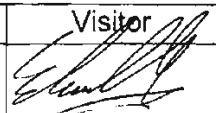
Date: 13 Sept 2012

Visitor's Full Name: Ooi Kok
 Visitor's Address: _____

Representing: N.A.
 Address: N.A.

This CONFIDENTIALITY AND NON-SOLICITATION AGREEMENT (the "Agreement") is entered into as of the date first above written among NRGLab Pte.Ltd., a Singapore private company limited by shares or any or all of its respective affiliates, subsidiaries or associates (collectively these entities are defined as "NRGLab") and Ooi Kok a representative of _____ (the "Visitor"). In consideration of NRGLab providing the Visitor with access to the premises of NRGLab, Visitor hereby agrees to the following:

1. Visitor may be given access to certain information that is proprietary, non-public, confidential and/or a trade secret (the "Confidential Information") concerning NRGLab, through the Visitor's relationship with NRGLab or as a result of the Visitor's access to NRGLab's premises.
2. Visitor understands and acknowledges that Confidential Information of NRGLab as used in this Agreement shall mean any and all information disclosed to Visitor by NRGLab, either directly or indirectly, in writing or orally, whether or not marked confidential. The term "Confidential Information" does not include any information: (i) that at the time of disclosure to Visitor or thereafter is generally available to and known by the public (other than as a result of a disclosure by Visitor in contravention of this Agreement); (ii) that is or was received by Visitor on a non-confidential basis from a source other than NRGLab who is not prohibited (to the Visitor's knowledge) from transmitting the information to Visitor by a confidentiality agreement with or other contractual, legal or fiduciary obligation to; (iii) heretofore disclosed to Visitor by NRGLab on a non-confidential basis pursuant to a written agreement with NRGLab; or (iv) that was known by Visitor prior to disclosure hereunder and is not (to the Visitor's knowledge) subject to a confidentiality obligation by Visitor to NRGLab.
3. In consideration of being admitted to NRGLab's premises, Visitor will hold Confidential Information that is disclosed to him in the strictest confidence. Visitor will not remove any document, equipment or other materials from the premises of NRGLab without NRGLab's written permission. Visitor will not photograph or otherwise record any information to which Visitor may have access during his visit.
4. Visitor agrees to cause any and all organizations he may represent to be bound by the terms of this Agreement, as if they were parties hereto.
5. Visitor agrees to release NRGLab from and against any and all liabilities, claims and causes of action for personal injury, death or property damage (except in the case of gross negligence or

NRGLab	Visitor
	


APPENDIX 15

willful misconduct) against NRGLab as a result of the Visitor's entry to NRGLab's premises. Visitor further agrees to comply fully with all rules, regulations and instructions issued by NRGLab regarding his actions upon entering or leaving the premises.

- 6. Visitor agrees to indemnify, defend and hold harmless NRGLab from all actions, expenses and costs (including attorney's fees) of any kind resulting from his breach of this Agreement.
- 7. This Agreement shall be governed and construed in accordance with the laws of the Republic of Singapore, and any dispute arising hereunder shall be resolved in courts located within the City of Singapore.
- 8. This Agreement has been written in English language and constitutes the entire understanding between NRGLab and Visitor with respect to its subject matter. It supersedes all earlier representations and undertakings, whether oral or written.

Affirmed and agreed to as of the date first written above.

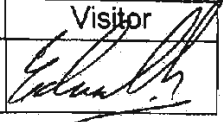
NRGLab Pte.Ltd., a Singapore private company limited by shares

By: 
 Sergey Sorokin
 Director

By: 
 Visitor's Full Signature

Ooi Kok (
 Visitor's Full Name

Representing the following parties:

NRGLab	Visitor
	

SAFETY MEETING PROTOCOL

APPENDIX 16

Protocol number: 1309/12

Date: 13.09.12, 2012 Time: 11.13

Location: 154

page 6

Operations: NRGLab is to demonstrate SH-6 Sample production and qualities.

Emergency situation actions: In case of contact of the components with skin or eyes, immediately wash/flush the affected area with plenty of water.

Emergency contacts:

Closest hospital: St Luke's Hospital, 2 Bukit Batok Street 11, Singapore 659674
Tel: 6563 2281, Fax: 6561 8205, Email: general@slh.org.sg

Safety Supervisor 1: Sergey Sorokin

Safety Supervisor 2: Joely Lozadov

Safety Supervisor 3: _____

Emergency and HAZWOPER officer: _____

The undersigned were instructed on operational procedures, safety rules and actions during emergency situations.

No.	Name	Company	Signature
1	<u>And Surov</u>	<u>NRG</u>	<u>[Signature]</u>
2	<u>Sergey Sorokin</u>		<u>[Signature]</u>
3	<u>MELBANK</u>	<u>TW SUD PER</u>	<u>[Signature]</u>
4	<u>Alie Lina</u>	<u>TW SUD PSB</u>	<u>[Signature]</u>
5	<u>Cheng</u>	<u>NEA</u>	<u>[Signature]</u>
6	<u>Ooi Kok</u>	<u>NRG</u>	<u>[Signature]</u>
7	<u>MARK</u>	<u>DREW & NAPIER</u>	<u>[Signature]</u>
8	<u>GOH C</u>	<u>DBS BANK</u>	<u>[Signature]</u>
9	<u>TANG Sd</u>	<u>TW SUD PSB</u>	<u>[Signature]</u>
10	<u>VIKTORIJA</u>	<u>IK</u>	<u>[Signature]</u>
11	<u>Asil</u>	<u>-</u>	<u>[Signature]</u>
12	<u>Shamil</u>	<u>NRG</u>	<u>[Signature]</u>
13	<u>JOELY</u>	<u>NRG</u>	<u>[Signature]</u>
14			
15			
16			
17			
18			
19			
20			
21			
22			

NRGLAB ANALYST TEST SPEECH:

APPENDIX 17

Date: September 13, 2012

Object: The process of conception and birth of the crystals SH-6 generation.

Participants: National Research Foundation (NRF) representative, National Environmental Agency (NEA) representative, DBS Bank representative, 5 representatives of the independent laboratory TUV SUD PSB, Independent Observer, representing Drew and Napier Law Firm, 3 NRGLab Analysts, 3 NRGLab staff.

Lab Environment Conditions:

Ambient Temperature: $25\pm 3^{\circ}\text{C}$

Relative humidity: $55\pm 20\% \text{RH}$

Ladies and Gentlemen,

1. Before we proceed with the test, I will give you a short introduction. On June 8, we ran a test on the conception and birth of the crystal (SH-1 Sample), which yielded approximately 1 volt of electricity with a lifespan of 72 hours. SH-1 was a first generation battery unit, and demonstrated multiple positive qualities. It had only one negative characteristic: every three days, it required liquid injections for charging. As of today, the crystal lifespan has been extended to a projected 8000 hours on a single charge. Our SH-6 Sample currently being tested has produced power for 800 hours under a constant load on a single charge, and is not fully discharged yet.

The problem was solved using a new generation incubator, which allows crystal growth without the liquid. This incubator is able to extend crystal lifespan by 8,000 hours (on a single charge) with no power loss. Full service life of the SH-6 crystal can be up to 20 years, with power loss up to 40%. We anticipate the cost of electricity, utilizing these new generation crystals, to go down to 1.5-2 cents per kilowatt hour (including return of the investments and servicing). Such costs are 10 times lower than the current cost of electricity in

- other highly developed countries, including the current cost of electricity in Singapore. The crystals are easily scalable and can produce power of up to for 2000 MW and much more if necessary.
2. Now I will demonstrate how new crystal generation (SH-6) unit will be born; afterwards it can be used in bigger power units.
 3. Our goal is to show you the process of production and growth of the SH-6 sample. You will see that this process very simple. No other company in the world has such a process or the know-how to develop such a product. A representative from an Independent Laboratory will be collecting readings of the voltage produced by the SH-6 sample under a constant load until it is fully discharged.
 4. Let's proceed with the test. I will ask you to look carefully in your Affidavits as you will need to fill them during the test. The clock is located in the right corner of the table. Please use it to fill in the Affidavits.
 5. Now let's start the demonstration process. In front of you, you see a laboratory table with four square aluminum pods (the pods make use of regular aluminum, a very cheap material) of approximately 45mm x 45mm with a height of approximately 5mm (you are free to inspect it), four carbon "lids" for the pods with the size 45mm x 45mm, a container with a component #1, a container with a component #2, a container with a component #3 (all three components were pre selected by lab technician in California, USA), distilled water, a clean ceramic cup, weighing scales, and spatulas for mixing.
 6. Now I'm going to weigh one of the aluminum pods. Please note the time now **(POINT 4)**. The weight is _____ grams **(POINT 4)**. Now I place one of the carbon "lids" on the scales. The weight is _____grams **(POINT 4)**.
 7. I am now adding component #1 into the ceramic cup. The weight of the component #1 added is _____grams **(POINT 5)**. I will now add Component #2 into the ceramic cup. The weight of Component #2 is _____grams **(POINT 5)**. I am now going to mix components #1 and #2 in the ceramic cup using a spatula.
 8. I am now going to add Component #3 to the ceramic cup. The weight of Component #3 added is _____grams **(POINT 5)**. I am

- now going to mix all three components in the ceramic cup with a spatula. Now, I will add _____ml **(POINT 5)** of distilled water to the mixture in the ceramic cup and mix until the components have combined to form a mass in the cup.
9. The mass will now be spread evenly in each of the four pods. You can observe that each of the pods is completely filled to the top. I am now going to place a carbon "lids" on top of the mass in each of the pods. These pods are SH-6 Samples.
 10. We will now weigh one of the SH-6 Samples. The weight of one sample is _____ grams **(POINT 7)**.
 11. I am now going to place the SH-6 Samples in the incubator to grow the crystals. We are turning the incubator on now, please note the time on your affidavit **(POINT 8)**. We will wait 3 minutes for the crystal to grow.
 12. I have just turned off the incubator and am now removing the SH-6 Samples from the incubator. Please note the time on your affidavits now **(POINT 8)**. The crystals in the SH-6 sample will continue to form over the next 6 hours. After 6 hours, four SH-6 samples will be connected and placed under a constant load in the presence of the representative of the Independent Laboratory for further testing and data collection until it is fully discharged.
 13. I will now stack the four SH-6 Samples on top of each other and connect a light bulb to four SH-6 samples by a regular cable. You can see the light bulb is flashing.
 14. In the final stage of this demonstration, we would like to invite representatives from TUV-SUD-PSB, an independent laboratory to carry out tests on the SH-6 Samples.
 15. Mr. M**** will be to measuring the voltage produced by the SH-6 Samples. He is now connecting the samples to a voltmeter. The voltmeter is showing a reading of _____Volts **(POINT 10)**. Thank you Mr. M*****.
 16. We will now invite Dr T**** to conduct a test to determine whether the SH-6 Samples emit nuclear radiation. As you can see, the device shows a reading of _____ which indicates that the Sample produces no nuclear radiation **(POINT 10)**.

17. The four SH-6 Samples will now be placed into a transparent box and sealed by a representative from TUV-SUD. Please note the time on your affidavit (**POINT 14**). This box will now be placed in a fire-proof safe and locked. The SH-6 Samples will be placed under a constant load in the presence of Independent Laboratory representative upon complete crystal formation (6 hours from now) and further voltage measurements will be taken at regular intervals by an independent laboratory until the SH-6 Samples will be completely discharged.

AFFIDAVIT

of

Cheng I

(Independent Observer)

1. My name is Cheng I. I am a Engineer,
from representing NEA. I am of sound mind, over the age of 18 years,
capable of making this affidavit, and personally acquainted with the facts stated in this affidavit.

2. My address is _____

3. On the 13th day of September, 2012, I arrived at _____
Singapore, _____ (the "Test Site") and observed a laboratory table with four square
aluminum pods of approximately 45mm x 45mm with a height of approximately 5mm and four
carbon "lids" for the pods with the size 45mm x 45mm, a container with Component #1, a
container with Component #2, a container with Component #3, distilled water, a clean ceramic
cup, weighing scales, and spatulas for mixing.

4. At 11.18 am I observed that an Analyst of NRGLab took one of the aluminum
pods and placed it on the scales. The scales showed 4.05 grams. Thereafter, I observed
that the Analyst placed one of the carbon "lids" on the scales. The scales showed
1.03 grams for one carbon "lid".

5. Thereafter, at 11.19 I observed that the Analyst of NRGLab took a clean
ceramic cup and placed 0.07 grams of the component #1 inside. Thereafter, I observed
that the Analyst of NRGLab placed 0.61 grams of component #2 in the ceramic cup. I
observed that the Analyst of NRGLab manually mixed Components #1 and #2 in the ceramic
cup using a spatula. Thereafter, the Analyst of NRGLab added 60.55 grams of Component
#3 to the ceramic cup. I observed that the Analyst of NRGLab then manually mixed
Components #1, #2, and #3 in the ceramic cup using a spatula. The Analyst of NRGLab then
added 12 ml of distilled water to the ceramic cup containing the mixture of Components
#1, #2, and #3, and manually mixed all the contents of the ceramic cup using a spatula until
they formed a mass.

6. Thereafter, I observed that Analyst of NRGLab took the mass from a ceramic cup and
placed even layers in each of the four pods in such a way that it completely filled the each pod
to the top.

7. Thereafter, I observed the Analyst of NRGLab took four carbon "lids" and placed one on
each of the pods on top of the mass. Each pod with mass inside and carbon "lid" on top was

referred to by the Analyst of NRGLab as an SH-6 Sample. I observed that the Analyst of NRGLab placed one SH-6 sample on the scales. The scales showed 24.44 grams.

8. I observed that the Analyst of NRGLab took the four SH-6 Samples and placed inside the incubator for 3 minutes for crystal growth. At 11:31 am, the Analyst of NRGLab turned the incubator on. The incubator was turned off and the samples were removed at 11:34 am.

9. Thereafter, I observed that the Analyst of NRGLab stacked the four SH-6 Samples on top of each other. I observed that the Analyst of NRGLab connected a light bulb to four SH-6 samples by a regular cable. I observed that the light bulb was flashing.

10. At 11:40 I observed that a representative of the Independent Laboratory took a voltage measurement of the four SH-6 samples. I observed that the voltmeter showed voltage, which was 5.44 volts. I observed nuclear radiation equal to closed to background
0.3

11. To the best of my knowledge, during the whole demonstration by the NRGLab Analyst and in the incubator, no chemicals or any other materials were added into the pods or ceramic cup except for those that are described above in this Affidavit.

12. Thereafter, I observed that the Analyst of NRGLab placed the four SH-6 samples into a transparent box. I observed that the Representative of the Independent laboratory locked and sealed the transparent box for further voltage readings to be taken.

13. An NRGLab representative informed me that the crystals in the SH-6 sample will continue to form for 6 hours. After 6 hours, four SH-6 samples will be connected and placed under a constant load in the presence of the representative of the Independent Laboratory for further testing.

14. At 11:45 am I observed that the NRGLab representative placed the locked and sealed transparent box with four SH-6 samples into a fire-proof safe. I observed that the safe was locked by an NRGLab representative.

Affirmed/Sworn by the above named)

Cheng
[Signature]

On the 13th day of September 2012)

In the presence of witnesses)

Test Report No. 7191042642-EEC12/MPO
dated 20 September 2012

Note: This report is issued subject to TÜV SÜD PSB's "Terms and Conditions Governing Technical Services".
The terms and conditions governing the issue of this report are set out as attached within this report.



PSB Singapore

Choose certainty.
Add value.

Subject

Voltage Measurement on Four (4) SH-6 Samples (Stacked Together)

Client

NRGLab Private Limited

Singapore

Attn: Ms. A

Date of Measurement

13 September 2012

Description of Sample(s)

Four (4) SH-6



Laboratory:
TÜV SÜD PSB Pte. Ltd.
Testing Services
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: testing@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
3 Science Park Drive, #04-01/05
The Franklin, Singapore 118223
TUV®

A. Voltage Measurement Method

APPENDIX 19

1. Measurement was conducted at the client place at _____ Singapore _____
2. The four (4) SH-6 samples are stacked on top of each other for the voltage measurement. The measurement points are from the top of the carbon lid and the base of the aluminium pod.
3. The Voltage measurement points are as advised by the client.

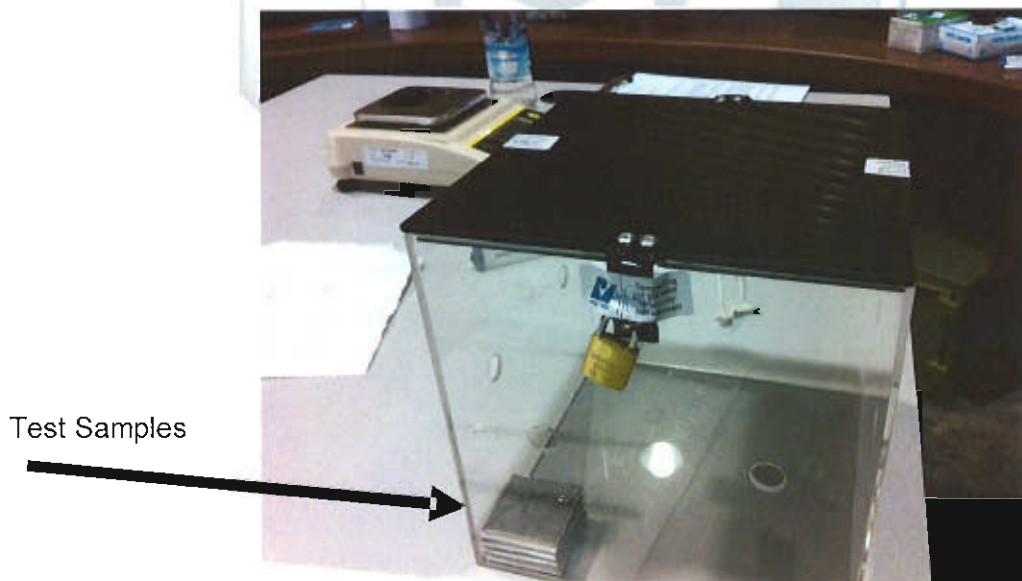
B. Measured Data

1. The measured voltage is 5.44 volts.

C. Equipment used for the Measurement

1. Fluke Multimeter with serial number 90880245 calibrated on 31/07/2012 and due for calibration on 31/7/2013.

D. Photo of Test Sample(s) in a Locked Transparent Box





Tested and Prepared by: MELCHOR F
Project Manager (Electrical & Electronics Center)
TUV SUD PSB Pte Ltd

TEST REPORT: 7191041918-CHM12-RR

Date: 17 Sept 2012

Tel:

301

Client's Ref:

Email:

@tuv-sud-psb.sg

Note: This report is issued subject to TÜV SÜD PSB's "Terms and Conditions Governing Technical Services".
The terms and conditions governing the issue of this report are set out as attached within this report.



PSB Singapore

Choose certainty.
Add value.

SUBJECT

Screening Test of Radioactive Radiation Test, Dose Rate ($\alpha+\beta+\gamma$)

APPENDIX 20

CLIENT

NRGLAB PTE. LTD.

SINGAPORE

Attention: MS.A

SAMPLE SUBMISSION DATE

13 Sept 2012

DESCRIPTION OF SAMPLE

On site screening test on "SH-6 Samples", performed on 13 Sept 2012.

DATE OF ANALYSIS

13 Sept 2012



Laboratory:
TÜV SÜD PSB Pte. Ltd.
Testing Services
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: testing@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
3 Science Park Drive, #04-01/05
The Franklin, Singapore 118223
TÜV®

METHODS OF TEST

APPENDIX 20

For dose rate measurement of Alpha, Beta and Gamma ($\alpha+\beta+\gamma$) radiatoin, it is scanned by an advanced survey meter.





RESULTS

APPENDIX 20

Table 1: Dose rate of radiation ($\alpha+\beta+\gamma$) of the samples detected.

Sample Names	Dose rate of radiation ($\mu\text{Sv}/\text{hour}$)
SH-6 Samples	0.3

The dose rate of radiation is higher than the normal natural environment level of Singapore (NEA), about 0.1 $\mu\text{Sv}/\text{hour}$, but close to the environment level of the on-site laboratory room.

Guideline for reference only:

WHO (WHO 1988) has chosen an intervention level of 5 mSv in a year, equivalent to 0.57 $\mu\text{Sv}/\text{hour}$ (based on 365 days/year and 24 hours/day)

The IAEA limit for public exposure to ionising radiation is 1 mSv per year, equivalent to 0.114 $\mu\text{Sv}/\text{hour}$ (based on 365 days/year and 24 hours/day), excluding what a person normally receives from natural background radiation.

MR RIAZUL RAZIQ
TECHNICAL EXECUTIVE

DR TANG
PRODUCT MANAGER
SURFACE ANALYSIS
CHEMICAL & MATERIALS

September 17,2012

To: TUV SUD PSB Pte Ltd

APPENDIX 21

Singapore 1

Att: Melchor Product Manager

Re: Test schedule

Dear Melchor,

Please see below new test schedule.

October 8, 2012 Short circuit test

Two clips must be disconnected from the light bulb. **Wait 3 min.** Take a voltage reading. **Wait 10 min.** Take a Voltage reading. Both readings must be written in Chain of Custody form.

Two clips must be connected together to create a short circuit. In such state four SH-6 must be placed to the transparent box. Transparent box must be sealed by TUV rep and placed in to the safe.

Please fill in chain of custody accordingly. The one that ***Released by NRGLab*** must state : four SH-6 under the load. **Voltage reading after 3 min of load break. Voltage reading after 10 min of load break.**

Chain of Custody that ***Released by TUV*** must state : four SH-6 under under the short circuit.

Please take photos to include in your report.

NRGLab rep will be filming all process.

October 9, 2012 Short Circuit readings

Two clips must be disconnected from each other (break a short circuit). **Wait 3 min.** Take a voltage reading. **Wait 10 min.** Take a Voltage reading. **Wait 30 min.** Take a voltage reading. Three readings must be written in Chain of Custody form. Three readings must be included in TUV report in a form of a graph (curve).

APPENDIX 21

Two clips must be connected to the light bulb (same as was on sept 17) In such state four SH-6 must be placed to the transparent box. Transparent box must be sealed by TUV rep and placed in to the safe.

Please fill in chain of custody accordingly. The one that **Released by NRGLab** must state : four SH-6 under the short circuit. **Voltage reading after 3 min of short circuit break. Voltage reading after 10 min of short circuit break. Voltage reading after 30 min of short circuit break.**

Chain of Custody that **Released by TUV** must state : four SH-6 no the load.

Please take photos to include in your report.

NRGLab rep will be filming all process.

October, 12 2012 Voltage Readings

Take a Voltage reading. Two clips must be connected back to a light bulb. In such state four SH-6 must be placed to the transparent box. Transparent box must be sealed by TUV rep.

Please fill in chain of custody accordingly. The one that **Released by NRGLab** must state : four SH-6 no load. **Voltage reading .**

Chain of Custody that **Released by TUV** must state : four SH-6 under under the load.

Please take photos to include in your report.

NRGLab rep will be filming all process.

Regards,

Sergey Sorokin
Director
NRGLab Pte. Ltd

CHAIN OF CUSTODY & CONTROL

TEST: CRYSTAL BATTERY TEST - 13 SEP 2012

DATE: 13 SEP 2012

ITEM(S): 4 SH-6 SAMPLES IN A TRANSPARENT PLASTIC BOX,
LOCKED AND SEALED BY INDEP. LAB.

NO.	ITEM	DATE RELEASED	RELEASED BY	DATE RECEIVED	RECEIVED BY	CUSTODY FORM REF NO.	CUSTODY FORM SIGNED/RETURNED
1	TEST SET UP (AS ABOVE)	14 SEPT 2012	JOERY/NRL <i>[Signature]</i>	14 SEP 2012	<i>[Signature]</i>	TEST 130912-1	✓
2	TEST SET UP (AS ABOVE)	14 SEP 2012	Niel <i>[Signature]</i>	14 SEPT 2012	JOERY/NRL <i>[Signature]</i>	TEST 130912-2	✓
3	TEST SET UP	17 SEP 2012	AS 1 NIEL/NRGLAB <i>[Signature]</i>	17 SEP 2012	Niel <i>[Signature]</i>	TEST 130912-3	✓
4	TEST SET UP.	17 SEP 2012	Niel <i>[Signature]</i>	17 SEP 2012	Niel <i>[Signature]</i>	TEST 130912-4	✓
5	TEST SET UP voltage readings + short circuit	8 Oct 2012	SHAMIL NRGLAB <i>[Signature]</i>	8 Oct 2012	Niel <i>[Signature]</i>	TEST 130912-5	✓
6	TEST SET UP	8 Oct 2012	Niel <i>[Signature]</i>	8 Oct 2012	SHAMIL NRGLAB <i>[Signature]</i>	TEST 130912-6	✓
7	TEST SET UP SHORT circuit break + voltage reading	9 Oct 2012	SHAMIL NRGLAB <i>[Signature]</i>	9 Oct 2012	Niel <i>[Signature]</i>	TEST 130912-7	✓
8	TEST SET UP	9 Oct 2012	Niel <i>[Signature]</i>	9 Oct 2012	SHAMIL NRGLAB <i>[Signature]</i>	TEST 130912-8	✓
9	TEST SET UP	12 Oct 2012	SHAMIL NRGLAB <i>[Signature]</i>	12 Oct 2012	Niel <i>[Signature]</i>	TEST 130912-9	✓
10	TEST SET UP	12 Oct 2012	Niel <i>[Signature]</i>	12 Oct 2012	SHAMIL NRGLAB <i>[Signature]</i>	TEST 130912-10	✓

NRGLAB PTE. LTD.

ACKNOWLEDGEMENT OF CUSTODY & CONTROL

DETAILS OF ACCEPTANCE			
Accepted by	[Redacted] <i>by</i>		
ID No.	[Redacted] <i>F</i>		
Contact No.	[Redacted]		
Address	<i>TUV-SUD-PSB</i>		
Email Address	[Redacted] <i>@tuv-sud-psb.sg</i>		
DETAILS OF RELEASE			
Released on	<i>14 SEPT 2012</i>	Released by	<i>JOEY / NRL</i>
Contact No. of Party Releasing	[Redacted]		
Address of Party Releasing	<i>11TH AVE. 2</i>		
ITEMS UNDER CONTROL			
Item	<i>Test set up - 13 SEP 2012</i>		
Description	<i>The SH-6 were samples were placed under a constant load by an NRG Lab Technician.</i>		
Measurements	<i>NA</i>	Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Ambient Temp	<i>NA</i> <i>29°C</i>	Relative Humidity	<i>NA</i> <i>70%</i>
Weight	<i>NA</i>	Tests Conducted	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TESTS CONDUCTED ON ITEMS			
Test	<i>Voltage Test</i>		
Description	<i>Connecting Voltmeter to SH-6 Sample to measure voltage output.</i>		

NRGLAB PTE. LTD.

ACKNOWLEDGEMENT OF CUSTODY & CONTROL

DETAILS OF ACCEPTANCE			
Accepted by	JOEFLY		
ID No.	5		
Contact No.	140		
Address	1 AVE-2		
Email Address			
DETAILS OF RELEASE			
Released on	14 SEP 2012	Released by	Me
Contact No. of Party Releasing			
Address of Party Releasing	TUV-SUD-PSB		
ITEMS UNDER CONTROL			
Item	Test set up - 13 SEP 2012		
Description	The SH-6 samples were placed under a constant load by an NRGLab Technician		
Measurements	N.A.	Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Ambient Temp	29°C	Relative Humidity	70%
Weight	N.A.	Tests Conducted	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TESTS CONDUCTED ON ITEMS			
Test	Voltage Test		
Description	Connecting Voltmeter to SH-6 sample to measure voltage output.		

Description of test outcome	6.15 V No load voltage
-----------------------------	------------------------

ACKNOWLEDGEMENT – PARTY RELEASING ITEM

1. I, Alex Long, hereby acknowledge that I released the abovenamed items to Joely NRGlab on the abovementioned date, at _____.
2. I confirm that, to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. The seal was intact at the time of release.
3. I confirm that the abovenamed items have remained at all times in my personal or accountable custody, and that they have not been altered in any way whilst in my custody, either intentionally or accidentally.


Signature

14/09/12
Date

ACKNOWLEDGEMENT – RECIPIENT

1. I, JOELY, hereby acknowledge that I received the abovenamed items from MELCHON (TUD - SUV) on the abovementioned date, at _____ AVE. 2.
2. I confirm that I inspected the items upon delivery, and to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. When the items were released to me, the seal was intact.
3. All the information given on this form is true and correct to the best of my knowledge.

4. I HEREBY ACKNOWLEDGE THAT SH6 SAMPLES DESCRIBED IN THIS DOCUMENT WERE UNDER A CONSTANT LOAD OF LED BULB IN MY PRESENCE


Signature

14 SEPT 2012
Date

NRGLAB PTE. LTD.

ACKNOWLEDGEMENT OF CUSTODY & CONTROL

DETAILS OF ACCEPTANCE			
Accepted by	[Signature] / NRGLAB		
ID No.	[Signature]		
Contact No.	[Signature]		
Address	[Signature] 11E 2		
Email Address	[Signature] @ [Signature] . com		
DETAILS OF RELEASE			
Released on	17 sep 2012	Released by	[Signature] / TUV-SUD-PSB
Contact No. of Party Releasing	[Signature]		
Address of Party Releasing	TUV-SUD-PSB		
ITEMS UNDER CONTROL			
Item	TEST SET- UP (13 SEP 2012)		
Description	FOUR SH-6 SAMPLES CONNECTED IN A SERIES CONSTANT LOAD (LEDBULB) UNDER A SHORT CIRCUIT IN A TRANSPARENT PLASTIC BOX, LOCKED & SEALED.		
Measurements	-	Sealed	Yes <input type="checkbox"/> No <input type="checkbox"/>
Ambient Temp	-	Relative Humidity	77%
Weight	-	Tests Conducted	Yes <input type="checkbox"/> No <input type="checkbox"/>
TESTS CONDUCTED ON ITEMS			
Test	VOLTAGE TEST, SHORT CIRCUIT		
Description	ITEMS WERE TESTED FOR VOLTAGE ONLY WHEN RELEASED, WITH AND WITHOUT LOAD.		

Description of test outcome	-
-----------------------------	---

ACKNOWLEDGEMENT – PARTY RELEASING ITEM

1. I, NIE [] [] (TUV-SUD-PSB), hereby acknowledge that I released the abovenamed items to [] [] /NRGLAB on the abovementioned date, at [] [] [] 2.
2. I confirm that, to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. The seal was intact at the time of release.
3. I confirm that the abovenamed items have remained at all times in my personal or accountable custody, and that they have not been altered in any way whilst in my custody, either intentionally or accidentally.

[Signature]
Signature

17/09/12
Date

ACKNOWLEDGEMENT – RECIPIENT

1. I, [] [] /NRGLAB, hereby acknowledge that I received the abovenamed items from NIE [] [] /TUV-SUD-PSB on the abovementioned date, at [] [] [] 2.
2. I confirm that I inspected the items upon delivery, and to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. When the items were released to me, the seal was intact.
3. All the information given on this form is true and correct to the best of my knowledge.

[Signature]
Signature

17 sep 2012
Date

NRGLAB PTE. LTD.

ACKNOWLEDGEMENT OF CUSTODY & CONTROL

DETAILS OF ACCEPTANCE			
Accepted by			
ID No.			
Contact No.			
Address	TUV SUD PSB		
Email Address	tuv-sud-psb-sg		
DETAILS OF RELEASE			
Released on	8 Oct 2012	Released by	SHAMIL / NRGLAB
Contact No. of Party Releasing			
Address of Party Releasing	NRGLAB Pte Ltd 		
ITEMS UNDER CONTROL			
Item	TEST SET UP - SHOR CIRCUIT TEST - DAY 1		
Description	4 SH-6 SAMPLES CONNECTED TO A LOAD (LED LIGHT BULB) IN A TRANSPARENT PLASTIC BOX, LOCKED & SEALED (SEAL OF TUV IS <u>not</u> broken) The light bulb is still on.		
Measurements	N A	Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Ambient Temp	30°C	Relative Humidity	69%
Weight	N A	Tests Conducted	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TESTS CONDUCTED ON ITEMS			
Test	Voltage Measurements		
Description	No Load - voltage of SH-6 samples (after 3 min no load) are is 3.50V No Load - voltage of SH-6 samples (after 10 min no load) are is 3.90V		

Description of test outcome	No load (after 3min) voltage is 3.50 V No load (after 10 min) voltage is 3.90 V
-----------------------------	--

ACKNOWLEDGEMENT – PARTY RELEASING ITEM

1. I, SHAMIL NRGLAB, hereby acknowledge that I released the abovenamed items to Nie on the abovementioned date, at 2.

2. I confirm that, to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. The seal was intact at the time of release.

3. I confirm that the abovenamed items have remained at all times in my personal or accountable custody, and that they have not been altered in any way whilst in my custody, either intentionally or accidentally.

4. I confirm the 4SP-6 samples were placed in a short circuit in my presence

Signature [Signature]

8 Oct 2012

Date

ACKNOWLEDGEMENT – RECIPIENT

1. I, Nie, hereby acknowledge that I received the abovenamed items from SHAMIL NRGLAB on the abovementioned date, at 2.

2. I confirm that I inspected the items upon delivery, and to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. When the items were released to me, the seal was intact.

3. All the information given on this form is true and correct to the best of my knowledge.

[Signature]

Signature

8 Oct 2012

Date

ACKNOWLEDGEMENT OF CUSTODY & CONTROL

DETAILS OF ACCEPTANCE			
Accepted by	SHAMIL [REDACTED] NRGLAB		
ID No.	[REDACTED]		
Contact No.	+ [REDACTED]		
Address	[REDACTED] AVE 2		
Email Address	[REDACTED] @GLAB.ASIA		
DETAILS OF RELEASE			
Released on	8 Oct 2012	Released by	[REDACTED]
Contact No. of Party Releasing	[REDACTED]		
Address of Party Releasing	TUV-SUD-PSB		
ITEMS UNDER CONTROL			
Item	TEST SET-UP (8 Oct 2012) - SHORT CIRCUIT - day 1		
Description	4 SH-6 SAMPLES in a SHORT CIRCUIT in a TRANSPARENT BOX, LOCKED & sealed		
Measurements	N.A.	Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Ambient Temp	30°C	Relative Humidity	69%
Weight	N.A.	Tests Conducted	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TESTS CONDUCTED ON ITEMS			
Test	VOLTAGE TEST, SHORT CIRCUIT		
Description	ITEMS WERE TESTED FOR voltage (3 min after load break, 10 min after load break) WHEN RELEASED		

Description of
test outcome

APPENDIX 22

ACKNOWLEDGEMENT – PARTY RELEASING ITEM

1. I, Niel, hereby acknowledge that I released the abovenamed items to SHAMIL on the abovementioned date, at AVE 2.
2. I confirm that, to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. The seal was intact at the time of release.
3. I confirm that the abovenamed items have remained at all times in my personal or accountable custody, and that they have not been altered in any way whilst in my custody, either intentionally or accidentally.
4. I confirm that I personally place four SH-6 samples into a short circuit.

[Signature]
Signature

8 Oct 2012
Date

ACKNOWLEDGEMENT – RECIPIENT

1. I, SHAMIL, hereby acknowledge that I received the abovenamed items from Niel on the abovementioned date, at [Address].
2. I confirm that I inspected the items upon delivery, and to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. When the items were released to me, the seal was intact.
3. All the information given on this form is true and correct to the best of my knowledge.

[Signature]
Signature

8 Oct 2012
Date

ACKNOWLEDGEMENT OF CUSTODY & CONTROL

DETAILS OF ACCEPTANCE			
Accepted by	Nie ...		
ID No.			
Contact No.			
Address	TUV SUD PSB		
Email Address	t-sud-psb-sg		
DETAILS OF RELEASE			
Released on	9/10/12	Released by	SHAMIL / NRGLAB
Contact No. of Party Releasing			
Address of Party Releasing	E. 2. / NRGLAB PTE LTD		
ITEMS UNDER CONTROL			
Item	TEST SETUP 9 Oct 2012		
Description	FOUR SH-6 SAMPLES PLACED IN SHORT CIRCUIT (IN A TRANSPARENT PLASTIC BOX) SEAL IS NOT BROKEN, BOX IS LOCKED.		
Measurements	N.A.	Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Ambient Temp	30°C	Relative Humidity	71%
Weight	N.A.	Tests Conducted	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TESTS CONDUCTED ON ITEMS			
Test	SHORT CIRCUIT BREAK + voltage readings		
Description	SHORT CIRCUIT HAVE BEEN BROKE 3min voltage reading is 2.20V 10min after short circuit break voltage is 3.00V 30min after short circuit break voltage is 3.20V		

ACKNOWLEDGEMENT OF CUSTODY & CONTROL

DETAILS OF ACCEPTANCE			
Accepted by	SHAMIL [redacted]		
ID No.	[redacted]		
Contact No.	[redacted]		
Address	[redacted]		
Email Address	[redacted].com		
DETAILS OF RELEASE			
Released on	9 Oct 2012	Released by	Xie [redacted]
Contact No. of Party Releasing	[redacted]		
Address of Party Releasing	TUV SUD PSB		
ITEMS UNDER CONTROL			
Item	TEST SET UP (9 Oct 2012) SHORT circuit broken		
Description	FOUR SH-6 SAMPLES NO LOAD IN A TRANSPARENT BOX, LOCKED & SEALED		
Measurements	N.A	Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Ambient Temp	30°C	Relative Humidity	71%
Weight	N.A	Tests Conducted	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TESTS CONDUCTED ON ITEMS			
Test	VOLTAGE TEST		
Description	ITEMS WERE TESTED FOR VOLTAGE 3min after short circuit break, 10 min after short circuit break, 30 min after short circuit test WHEN RELEASED		

Description of test outcome	
------------------------------------	--

ACKNOWLEDGEMENT – PARTY RELEASING ITEM

1. I, Ne, hereby acknowledge that I released the abovenamed items to SHAMIL on the abovementioned date, at _____.
2. I confirm that, to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. The seal was intact at the time of release.
3. I confirm that the abovenamed items have remained at all times in my personal or accountable custody, and that they have not been altered in any way whilst in my custody, either intentionally or accidentally.
4. I confirm, that I personally broke short circuit of four S# 6 samples.

Ne
Signature

9 Oct 2012
Date

ACKNOWLEDGEMENT – RECIPIENT

1. I, SHAMIL TI, hereby acknowledge that I received the abovenamed items from Ne on the abovementioned date, at 9-10-2012.
2. I confirm that I inspected the items upon delivery, and to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. When the items were released to me, the seal was intact.
3. All the information given on this form is true and correct to the best of my knowledge.

SHAMIL TI
Signature

9-10-12
Date

ACKNOWLEDGEMENT OF CUSTODY & CONTROL

DETAILS OF ACCEPTANCE			
Accepted by	Nre		
ID No.			
Contact No.			
Address	TUW SWD PSB Pte-Ltd.		
Email Address	tuw-swd-psb.sg		
DETAILS OF RELEASE			
Released on	12 Oct 2012	Released by	SHAMIL /NRGLAB
Contact No. of Party Releasing			
Address of Party Releasing	NRGLAB PTE LTD		
ITEMS UNDER CONTROL			
Item	TEST SET UP 12 Oct 2012		
Description	FOUR SH-6 SAMPLES NO LOAD IN A TRANSPARENT BOX, LOCKED & SEALED		
Measurements	N.A	Sealed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Ambient Temp	31°C	Relative Humidity	72%
Weight	N.A	Tests Conducted	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TESTS CONDUCTED ON ITEMS			
Test	VOLTAGE READINGS		
Description	Connecting Voltmeter to SH-6 samples to measure voltage output.		

Description of test outcome	4.40 VDC
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ACKNOWLEDGEMENT – PARTY RELEASING ITEM

1. I, SHAMIL, hereby acknowledge that I released the abovenamed items to Me on the abovementioned date, at _____.
2. I confirm that, to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. The seal was intact at the time of release.
3. I confirm that the abovenamed items have remained at all times in my personal or accountable custody, and that they have not been altered in any way whilst in my custody, either intentionally or accidentally.

Signature

12 OCT 2012
Date

ACKNOWLEDGEMENT – RECIPIENT

1. I, Me, hereby acknowledge that I received the abovenamed items from SHAMIL on the abovementioned date, at _____.
2. I confirm that I inspected the items upon delivery, and to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. When the items were released to me, the seal was intact.
3. All the information given on this form is true and correct to the best of my knowledge.

~~4. I hereby acknowledge that the SH-6 Samples described in this document were placed under a constant load of _____ in my presence.~~

Signature

12-10-12.
Date

ACKNOWLEDGEMENT OF CUSTODY & CONTROL

DETAILS OF ACCEPTANCE			
Accepted by	SHAMIL		
ID No.			
Contact No.			
Address			
Email Address			
DETAILS OF RELEASE			
Released on	19 OCT 2012	Released by	Me...
Contact No. of Party Releasing			
Address of Party Releasing	TUV SUD PSB		
ITEMS UNDER CONTROL			
Item	TEST SET UP 19 OCT 2012		
Description	FOUR SH-6 SAMPLES NO LOAD		
Measurements	N.A	Sealed	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Ambient Temp	31% 31°C	Relative Humidity	72%
Weight	N.A	Tests Conducted	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
TESTS CONDUCTED ON ITEMS			
Test	VOLTAGE TEST		
Description	voltage test conducted WHEN RELEASED.		

Description of test outcome	N. A.
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ACKNOWLEDGEMENT – PARTY RELEASING ITEM

- I, Nte, hereby acknowledge that I released the abovenamed items to SHAMIL on the abovementioned date, at _____.
- I confirm that, to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. The seal was intact at the time of release.
- I confirm that the abovenamed items have remained at all times in my personal or accountable custody, and that they have not been altered in any way whilst in my custody, either intentionally or accidentally.

Signature

12 OCT 2012
Date

ACKNOWLEDGEMENT – RECIPIENT

- I, SHAMIL, hereby acknowledge that I received the abovenamed items from Nte on the abovementioned date, at _____.
- I confirm that I inspected the items upon delivery, and to the best of my knowledge, all the items delivered were authentic, unaltered and untampered with. When the items were released to me, the seal was intact.
- All the information given on this form is true and correct to the best of my knowledge.

~~4. I hereby acknowledge that the SH-6 Samples described in this document were placed under a constant load of _____ in my presence.~~

Signature

12 OCT 2012
Date