

## THE SOLAR MONK IN SISEANGTHAM SCHOOL: MISSION ENGAGED FOR SOCIETY

Phrapanyawachiramoli<sup>[1]u</sup>

Wasana Kaewla<sup>[2]\*</sup>

Dongdib village, Heauyyang Sub district, Khong Chiam district, Ubon Ratchathani province, Thailand<sup>[1]</sup>

Faculty of Science and Technology, Surindra Rajabhat University Suir province, Thailand<sup>[2]</sup>

\*Corresponding E-mail: wasana.wasanak3@gmail.com

### ABSTRACT

*The article titled "The Solar Monk in Siseangtham School: Mission Engaged for Society" focused on presenting views and explaining the mission of the School, emphasizing the importance of the School for society. Being an educational establishment for all or a school for the public, smart grid Siseangtham: a social service photovoltaic project and a school mission for community service vs Thai farmers. Method of studying; a case study of the role of the Solar Monk; as director and owner of the School for society in order to meet the needs of the curriculum development of the educational institution and the school's productivity, especially the production of students who are good at/in serving the society and have dual general knowledge together with morality to be able to be a good citizen of society in the future.*

### Keywords

Solar, Monk, Mission, Society

### INTRODUCTION

In the midst of humanity's adaptation, the era of technology disruption is a time that is still in the era of Post Modernism. The world has a good experience because most people benefitted from the advancement of Digital technology and ICT inventors, especially the era of the golden year of Bill Gates,[1] American computer programmer and entrepreneur who cofounded Microsoft, also the founder of Microsoft Corporation and Gates Foundation. By the start of the 1990s he had become the PC industry's ultimate kingmaker. People's way of life therefore has communication devices as part of their lives. Later, the people of the world in the late era of the digital technology era. The world has been affected by the Coronavirus-2019 or Corona-19 outbreak.

After the world's citizens face the COVID-19 pandemic, despite their dependence on digital technology, lifestyles and cultures tied to information technology and some types of employment may disappear. Learning channels and teaching methods have changed. [2] Multiple methods and emphasis on experience and management skills; for example, one person needs multiple skills to perform multiple tasks. However, attitudes towards degree qualifications have changed. Therefore, the consideration of skills and management, as well as being an effective manager of the time, need to be adjusted according to social trends or directions (Social Megatrends).

As this issue, who have been "The Solar Monks"?, By Specifying this word in Singhlee as ស៊ីនហ្គឺល ធីន៍ត្រូ; sūrya bhikṣuva; in Khmer word as suriyan bhikku.

The Solar monk was Phrapanyawachiramoli[3] ; formal named Prakruwimolpanyakhun (Monk-Teacher Wimolpanyakhun) [4] also known as "the Solar Monk," heads the Sisaengtham School (a secondary private school, at Khong Chiam District, Ubon Ratchathani Province) in northeast Thailand. The school not only is solar powered, it also includes an alternative energy design, installation, and maintenance in school curriculum. The school also has its own organic gardens of which students learn to tend and feed themselves with.

In the development of teaching and learning on social missions (Mission Engaged for Society) or school for public. [5] His roles; Phrapanyawachiramoli has knowledge and ability to study and increase research knowledge for a broad development. He has entered into a network with Mahachulalongkornrajavidyalaya University (MCU), Wang Noi, Phra Nakhon Si Ayutthaya Province. In particular, this institution has the potential to provide teaching and learning to support and enhance the education of/for both monks and laymen. Each faculty there is a monk who studies the master's and doctoral degrees. Although, solar cell works for society, Phrapanyawachiramoli can be multiplied broadly. This will help to create solar power to be electricity for every hospital in every province and every sub-district. Especially different temples both in the urban society or the community will turn to install solar cells to reduce expenses, save, prevent, maintain and reduce global warming.

Beyond promoting technological progress, academic improvement, and spiritual enlightenment for all, the Solar Monk also has worked tirelessly to promote these ideas nationwide. In this view, the author thinks that it is a job to help and transfer knowledge and skills that will benefit the

### THE SOLAR MONK IN SISEANGTHAM SCHOOL AS WHO KNOWN?

country a lot. It is the ultimate mission for the Thai people. Nowhere else in the world; that is, the knowledge of Phrapanyawachiramoli, mission engaged for society, who is also a teacher, the position of director of a high school in the wilderness to create and expand educational opportunities to reach young people. The area of the forest reserved and the border between Thailand and Lao PDR accounted for a private school but non-profit at Khong Chiam District Educational Service Office, Ubon Ratchathani Province under the Department of Private Education Ministry of Education. Though, he is a professor and an administrator who is well-recognized and accomplished more than a world-class scientist of a human being ever since.

In this decade that has been a miracle erupt in the expansion network, the photovoltaic power is an alternative energy for society, Alternative solar electric mission engaged for society in the New Normal era way of life for/of a new normal society. In addition, religion, education and development are the same cores [6] but branched out into different branches. Here we think holistically, the Sikkha is study, religion is philosophy and also morality, concentration and wisdom included. Explaining to someone who has a certain level of thinking system was also completed. Alms, precepts, prayers, explaining for people who are relatives but at any level he can make good prayers about himself as a Buddha and the development part is Bhavana. Phrapanyawachiramoli, he has done on a mission to develop society by leapfrog social developments. From being an activist, a researcher who always seeks knowledge or has knowledge (a learner and reflector) until becoming a professional and having his own idea (theorist) to the development of innovation (Research for Innovation) as a professional practitioner with a high expertise (High End) to a professional practitioner who continues to create professionalism (Pragmatist). [7]

Mahachulalongkornrajavidyalaya University (MCU) is a Buddhist educational institution ranked 6<sup>th</sup> in the world. Phrapanyawachiramoli with his knowledge that has brought solar cells to operate at all levels until it is accepted by society. This already has got a brand. In 2021, Phrapanyawachiramoli engaged in the study program "Philosophy of Doctoral Degree on Social Development" in MCU. with/in Thailand's Buddhist networks, in order to expand the work in the brand identity of that identity. Unleashed it seems like shooting an arrow out of an arrow. In addition, leaders of countries around the world must turn to review that. Thailand has solar power applications that can reach the rural village level. The author speculates that in the future, the United Nations may come to invite Phrapanyawachiramoli, to install solar panels and organize training to transfer knowledge to countries in Africa such as Nigeria, Kenya, Peru.

Mr. Elon Mus, owner of Tesla, the submarine was also used to save the lives of 13 wild boar footballers and their coaches. In particular, Phrapanyawachiramoli was interested in learning more. He might have brought the body of knowledge to help poor countries definitely and to give the lives of those people back to the country. Because opposing countries, such as the United States, and China and Russia, the UNDP often fail to take the knowledge of some of the European nations that have advanced scientific

advancements. Especially at the UN meetings, there will be of a matter of political polarity involved. Most of them would invite experts from Thailand to travel to help poor countries because Thailand is a happy and peaceful country with Buddhism and peace on the premise that it is a nation with teachings. On the other hand, the religious polarity is another issue, that is often used as a condition of aid at UN meetings. Next, Phrapanyawachiramoli must go to help the people of Myanmar because it is considered a terrible disaster in the Covid-19 era and also from the causes of political conflicts in the country as well.

How do the Myanmar people and their ethnic groups fall into a brutal civil war? These people will be able to communicate or send messages for assistance from the UN or the ASEAN Member States (ASEAN). So Phrapanyawachiramoli would not refuse to help as well as helping people in Ubon Ratchathani Province who were affected by floods in 2019. Villagers in many sub-districts were unable to communicate due to the lack of electricity to use mobile phones. For this reason, in urgent situations affecting lives and property, it's time for Innovative research transfer of Phrapanyawachiramoli to be presented to serve the people and the society. Not only Thailand but it should also distribute to the poor countries in the ASEAN region, especially countries suffering from the mentioned political disasters and countries suffering from natural disasters. For example, island nations in the middle of the sea are affected by a tsunami, there may be a flood or El Niño more countries suffering from the drought or La Nina phenomenon (La Nina) whenever people need help from disaster relief units to bring rice. Dry food quickly reaches the target areas. Therefore, communication is necessary for an alternative energy use, especially solar energy. In this regard, the author focuses on the reflection of the concept, role and innovation research results of Phrapanyawachiramoli, to communicate to the people of all levels, genders and ages, including government agencies and private organizations to be aware of the results. A research study from practice in normal situations and in accident situations. This is a huge impact that deteriorates the livelihoods of people and fellow human beings who suffer physical and mental sufferings for all humanity on this earth/planet.

Phrapanyawachiramoli, he is still being a Buddhist monk. He was a monk with good conducts. He is also a person who has brought the body of science to be applied in daily life. Especially energy from the sun or solar cells which is important for every life of every birth of different organisms as recorded in the Dharma as "Idappaccyata" [8] by the Buddha talks about the power of the sun's light on all living things and things on earth. All things are sympathetic to each other and are beneficial to each other.

### **SMART GRID SISEANGTHAM: A SOCIAL SERVICE PHOTOVOLTAIC PROJECT**

Starting from the School, there is a high-end battery system, the ultimate energy management technology of the future. Smart Grid Sisaengtham Model,[9] a research work of the Electricity Generating Authority of Thailand, together with Sisaengtham School to test the SMART GRID system to

be a model for electric distribution system services in the future.

There will be a PEOPLE to PEOPLE trading system, electricity trading with **NET METERING**, [10] trading with cryptocurrency as COINS, or have heard that there are Bit Coins. Next, they might be Sisaengtham Energy Coins, BESS; Battery Energy Storage System [11] (High-efficiency energy management for utilities, commercials, and industrial sites. Peak shaving, load shifting, PV self-consumption, power backup and demand response, demand management. Power conditioning, power dispatch, renewable energy smooth) that have been monitored with different types of batteries to compare the performance of communication system experiments. Well, the BESS system was tested with different types of batteries to compare the performance. Experimenting with a centralized communication system to a substation with a remote control e.g. When there is a service of electricity in the future, it may be a Demand Response is the sale of electricity at a time. Or anyone who uses **TOU**; Time of Use Energy Metering (TOU) [12] Time-of-Use, or TOU as it is commonly referred to, is the segregation of energy rates based on the time in which the energy is being consumed. Power can bring the power to be stored and then export and sell during the high electricity bill. The system can notify the owner of the house or can be a remote to it turn off. It is a charging and discharging power station in the same place as a prototype for a community grid battery. That used to send electricity to use within the school, all 10 points. By sending lights at night into Wat Pa Sisaengtham, then sent them into the villages and kindergartens. And it also was sent to an elementary school in the village, each point has its own solar cell for internal use first. If the school does not use fire, and if the power is not exhausted, they can send the power to the battery station in this Sisaengtham School. Along with the EPS mode [13] (EPS is abbreviation of Emergency Power Supply), specifically designed for fire equipment and special load or lighting.), it supports different emergencies with a 130 Ah. battery. It can be used to back up power for dozens of days comfortably. In short, wait to see the end of this year's research paperwork. There was a signing ceremony [14] of a memorandum of cooperation with the Energy Research and Innovation Center in Agriculture in accordance with the way of life of the community by Sirindhorn Dam Electricity Generating Authority, the Electricity Generating Authority of Thailand, Chulalongkorn University Return to Wat Pa Sisaengtham in becoming a partner of the energy and agriculture development network, as well as other technologies that are suitable for the context of the community and the country in the future in order to have sustainable stability according to the King's science by using the area of Sisaengtham temple, an experimental research field.

### SCHOOL MISSION FOR COMMUNITY SERVICE VS THAI FARMER

Sisaengtham school, has provided Self Sufficiency economy knowledge, only a classroom designed based local curriculum but offering a short course for people to those science of the King Rama 9, as philosophy of his doctrine. Be published, domains on a comprise of major as self-reliance,

learning, ethical on survival in order to sustainable development communities.

Growing vegetables, planting and rice farm in school yard, the S.R.I could explain their student to learn about how to grow rice.



Figure 1 Providing students the fundamental skills required to feed community

Reached cultivation season, all student collected their production by their student to the rice harvester, the culture of harvesting rice, thus preserving the way of Thai farmers who have carried on the way of farming since their ancient ancestors. In order to instill in young people, the new generation know the traditional occupation.



Figure 2 Organic rice product for the school's canteen

The rice cultivation culture also helps students to know the perfect seed selection. before being planted for full yield and remove the imperfect seeds before planting them. The annual yields, a large amount of paddy. Therefore, it is also a lunch warehouse for students. In addition, a training course has been organized for farmers to understand the new theory of farming, especially the physical adjustment of cultivation areas by bringing King's science to Khok Nong Na (hilly area – pond - rice farm). In addition, the school also provides training in the King's Science Course to Khok Nong Na model, is a new agriculture concept based on the new Theory Agriculture and the Sufficiency Economy philosophy initiated by His Majesty King Bhumibol Adulyadej The Great. For teaching and learning in local subjects of the school, there is also a short-term training course, such as training on solar energy for agricultural application under the name of the course, fighting drought with solar energy. There is also a training course on the King's science on the water management system [15] is called Khok Nong Na - khok meaning a moulded mound, nong a catchment, and na a field so that local people can apply the principles of the Sufficiency Economy Philosophy in farming. In essence the Khok Nong Na model refers to the application of indigenous farming wisdom to produce a modern-day farming method intended for the kingdom's new generation of farmer. The



major of content as the solar energy, water management, ground mapping, and planting zone.



Figure 3-4 Government sector supports villagers in training the Khok Nong Na course.



Figure 5 Make a clay house to bring natural materials to build a house.



Figure 6 Learning base on charcoal burning



Figure 7 Permaculture farming methods

### CONCLUSION

Phrapanyawachiramoli's inventor and invention of solar energy. It reflects the important role of the school to the community, society, and Thailand. not only doing role in providing education and training to youth in the community for local personnel. The important role of the community towards the school which is its role in taking part in setting the direction of education for all. It is truly a mission for society.

### REFERENCES

- [1] <https://www.britannica.com> (access online available dated 6 /06/2021)
- [2] Commentary on the opening ceremony of the academic year 1/2021 by Phrathepwatcharabundit, Prof. Dr. Rector of Mahachulalongkornrajavidyalaya University (Zoom online on June 4, 2021)
- [3] His formal named, Phrpanyavachiramoli was bestowed as the royal patriarch of an announced in the Government by accepted the royal patronage, Royal Command dated 12 April 2021.
- [4] Search on Facebook ProgressTH.org "Asia at the edge of a Solar Power" April 28, 2016.
- [5] Chuchad Pomchit. (2017). Veridian E -Journal Silapakorn University. Vol.10 No. 2 (May- August 2017).
- [6] V Djokovic. 2007 (access online available) <http://adsabs.harvard.edu> by Albert Einstein mentioned it turns out that Einstein's both scientific (rational aspects) and religious (intuitive ... Incidentally, the treatise was composed in the same period (3rd century BC) as The further intellectual development of the young Albert was determined by the interplay of his Jewish ethnical origin and rational Hellenistic education.
- [7] Neary, Siobhan & Jonson, Claire. CPD for the career Development Professional, A Handbook for Enhancing Practice. Trotman. 2016.
- [8] Sathien Thangthongmadan and Sanit Sinak. (2020). A study the Interpretation of Idappaccyata in Buddhadasa Bhikkhu's Views. Journal of MCU Buddhist Review Vol. No. 1 (January-June 2020).
- [9] [https://timeline.line.me/post/\\_dfRWijnAxY3Fp\\_\\_1i5VzFQiG4YRvc6YRQD4I2g/1162289956609015852](https://timeline.line.me/post/_dfRWijnAxY3Fp__1i5VzFQiG4YRvc6YRQD4I2g/1162289956609015852)
- [10] <https://www.greenpeace.org/thailand/story/6534/what-is->

- net-metering/fire trading system Delta Energy Storage System: A Versatile Power Modulation Strategy  
11.<https://blog.deltaww.com/en/energyinfrastructuresolutions-en/products/delta-energy-storage-system-a-versatile-power-modulation-strategy/?gclid=Cj0KCQjwk4y>
- [12] Time of Use (TOU) Energy Metering – Application | Accuenergy<https://www.accuenergy.com> › application-solutions › tim.
- [13] <https://www.txele.com/p2/Emergency-powersystems-eps-emergency-power-supply>
- [14] Facebook on Sisaengtham school Memorandum of Cooperation Online (June 11, 2021)
- [15] The water of life – Nation Thailand, <https://www.nation.com>th> (access online available 13June, 2021)