

Tanaboon Sattayapan

Electrical Engineering



contact

tuekseaman@gmail.com | 061-349-7453



Address 39 Ngamwongwan 23, Intersection 17, Bang Krasaw, Mueang Nonthaburi District, Nonthaburi 11000



Personal Profile

Date of Birth : August 21,2001

Age : 24 Years old

Nationality : Thai

Religion : Buddhism



Education History

Bachelor's degree

Institution: Kasetsart University

Year of Graduation: 2023

- Bachelor Degree Electrical Engineer
- GPA 3.15 Toeic 515
- Associate Electrical Engineer (Power)

Volunteer Work, Awards, Affiliations

Design Electrical Engineering

Honorable Mention for using AutoCAD For Electrical Engineering (2022)

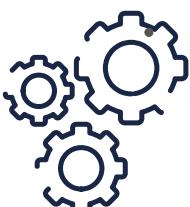
Introduction to Energy-Saving Transformers and Smart Monitoring Systems QTC Energy (2025)

Skills and Ability

- | | |
|----------------|--|
| • Autocad | • CAPCUT |
| • PVsyst | • Visual Studio Code |
| • Excel | • GITHUB |
| • Word | • Youtube Studio |
| • Power Point | • Digsilent |
| • Open solar | • Python |
| • Fusion Solar | • Have a driver license |
| • Digsilent | • Have a Electrical professional license |

Hobbies

- Design, connect, Permit and install a small solar cell circuit and find information new technology solar system and Renewable Technology.
- stock analysis intermediate and investment Stock ,Bond .
- Develop - Designed and developed a personal portfolio website from scratch basic using HTML, CSS, and JavaScript. Integrated interactive features such as mini-games, animation effects, and responsive layout.
- Continuously updated with new content including game and external links like YouTube in GitHub.
- Content Creator YouTuber name MR.TT2 with **3,000+** subscribers – video creation, editing, Gaming and content as a hobby.



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Research



Bachelor's degree

Design and Economic Return Analysis of Solar Rooftop Power Generation System to Reduce Consumption in the Electrical Engineering Building at Kasetsart University Bangkok

Design and analyzing economic cost-effectiveness using data obtained from a simulation conducted with the PVsyst software and compare the energy consumption of customers on an hourly basis over the course of one year. The energy production forecast for each year is predicted estimated using the PVsyst simulation program, and the generated data will be compared with the building's electricity consumption. The analysis will include the assessment of key financial metrics such as net present value (NPV), internal rate of return (IRR), and payback period.

Based on the results of the study and analysis of the return of the project simulation using an interest rate of 6.35%, and the simulation of the installation of solar cells on the roof, which will be installed as an on-grid system, for both 17 kW and 26 kW by 17 kW from calculated average load and 26 kW calculated peak load. From 10 AM to 3 PM, which is the period of strong sunlight, it was found that installing a 17 kW solar cell has a net present value (NPV) of 332,735.99 baht, an internal rate of return (IRR) of 12%, and a payback period of 7.41 years. The 26 kW solar cell installation has a net present value (NPV) of 567,704.34 baht, an internal rate of return (IRR) of 14%, and a payback period of 6.41 years. By the lifespan of the solar cell project is 25 years. Therefore, it can be concluded that installing a 26 kW solar cell is the most cost-effective investment.

Work Experience



Internship Provincial Electricity Authority (PEA)

Working as an internship Electrical and Mechanical Engineering Division in the Power substation Equipment Engineering Department of the Provincial Electricity Authority. The nature of work is to inspect the quality standards of equipment in power substations.

Design Electrical cabinet box design using AutoCAD

March 2022 to June 2022

(3 months)

Electrical Engineering Solar



Greenergy thailand

August 2023 to January 2024 (6 months)

- Design solar rooftop home systems from sizes 3kW-30kW. Make a BOQ table and make a list of equipment orders to the purchasing department (PR).
- Design solar rooftop Thongsamut factory systems from sizes 125kW and make Calculation sheet. Make a list of equipment orders to the purchasing department (PR). Install Solar Rooftop System and Communication System. Calculate economic returns
- Design solar rooftop Noppachai Plastic factory systems from sizes 490 kW. Make a BOQ table and make calculation sheet. Make a list of equipment orders to the purchasing department (PR). Install Solar Rooftop System and Communication System. Calculate economic returns
- Design solar rooftop Katevanich factory systems from sizes 762 kW and make calculation sheet. Make a list of equipment orders to the purchasing department (PR). Install Solar System and Communication System
- Design solar rooftop factory systems from sizes 1 MW and make calculation sheet.



PSTC Electrical Engineering Solar Power solution technology

March 2024 to Present (1 Years 5 Month)

- Surway and Design solar rooftop Hotel and factory systems from sizes 10kW-1MW. Make a BOQ, ASSUMPTION , List of main equipment Install Solar Rooftop System and Checking installation. Request permission to install a rooftop solar system Example Asia Teaque, InterContinental Chiang Mai, Hitech Plast
- Surway and Design solar Farm and Solar Car port sizes 400kW-5MW. Make a BOQ and Checking Install Solar Carport System Example Solar Carport Korat Zoo, Courtyard by marriott phuket town
- Surway and Design improve the efficiency of solar farm system 5 kW at Samut Songkhram and Sa Kaeo and Solar rooftop with PPA contracts by changing old Pv module to New Pv module and Do not change the inverter to use the existing one. Use PVsyst simulation of the system based on our new design, Make a price BOQ price in Change to new panel.



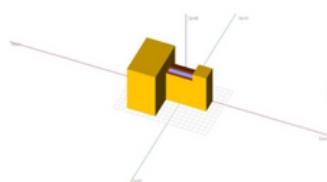
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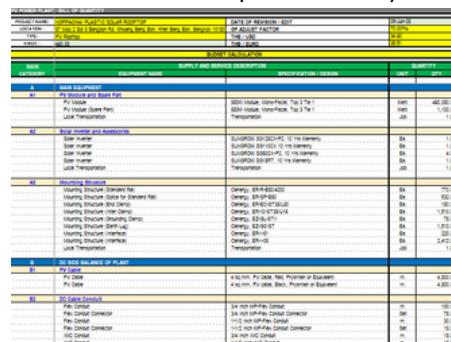
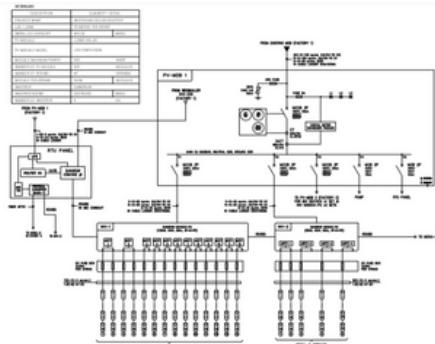
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ລະດ.	ລາຍລະອຽດ ການຄ້າມີຄວາມ ສະເໜີ	ຕາມລົງ (Future value)	ຕາມລົງ (Present value)	ກຳນົດການ ສະເໜີທີ່ມີຄວາມ ສະເໜີ
0	692,932,9625			0
1	107,622,4	-10,000	97,622,4	
2	104,931,80	-10,000	94,931,80	
3	104,178,44	-10,000	94,178,44	
4	103,425,09	-10,000	93,425,09	
5	102,671,73	-10,000	92,671,73	
6	101,918,37	-10,000	91,918,37	
7	101,165,02	-10,000	91,165,02	
8	100,411,66	-10,000	90,411,66	
9	99,658,30	-10,000	89,658,30	
10	98,904,95	-10,000	88,905,95	
11	98,151,59	-10,000	88,151,59	
12	97,398,23	-10,000	87,398,23	
13	-41813,06	96644,88	-10,000	44,831,82
14	99811,92	-10,000	89,851,92	
15	9818,16	-10,000	85,138,16	
16	94384,81	-10,000	84,384,81	
17	9363,45	-10,000	83,633,45	

19	90124.74	-10.000	82,124.74
21	91137.18	-10.000	81,371.18
22	90618.08	-10.000	80,618.08
23	89864.67	-10.000	79,864.67
24	89111.31	-10.000	79,111.31
25	88357.96	-10.000	78,357.96
	87604.66	-10.000	77,604.66
* ចាប់ពីថ្ងៃទី 1 និង 2 ដល់ថ្ងៃទី 25 របស់ខ្លួន ត្រូវបានគ្រប់គ្រង និង 17 ថ្ងៃក្នុងខែ មីនា ឆ្នាំ នៅក្នុង អាមេរិក ឬ ចិន ឬ ឥណទាន ឬ ឥណទាន។			
$NP = \sum_{i=1}^{25} \frac{RS_i}{(1+i)^{1+i}}$ - $I_0 = 332,353.99$ របាយ			
តាមរយៈរាយការណ៍របស់ខ្លួន និងរាយការណ៍របស់ខ្លួន ទៅលើ 25 របាយការណ៍ និង 17 របាយការណ៍ នៅក្នុងខែ មីនា ឆ្នាំ នៅក្នុង អាមេរិក ឬ ចិន ឬ ឥណទាន ឬ ឥណទាន។ តាមរយៈរាយការណ៍របស់ខ្លួន ទៅលើ 25 របាយការណ៍ និង 17 របាយការណ៍ នៅក្នុងខែ មីនា ឆ្នាំ នៅក្នុង រាយការណ៍ ទៅលើ 12 រូប។			
រាយការណ៍ ទៅលើ 25 របាយការណ៍ និង 17 របាយការណ៍ នៅក្នុងខែ មីនា ឆ្នាំ នៅក្នុង រាយការណ៍ ទៅលើ 12 រូប។			
លេខ	រាយការណ៍ និង 17 របាយការណ៍ នៅក្នុងខែ មីនា ឆ្នាំ	ថ្ងៃទី	រាយការណ៍ និង 17 របាយការណ៍ នៅក្នុងខែ មីនា ឆ្នាំ
0	015668.4944	1	0
1	147,454.726	15,000	132,454.726
2	145,768.3575	15,000	128,768.3575
3	142,756.1734	15,000	127,736.1734
4	141,703.9913	15,000	126,703.9913
5	140,671.8082	15,000	125,671.8083

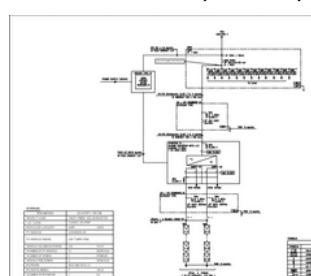
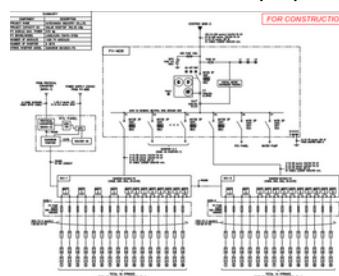
- Result Summary power generation of solar cell systems and animation shading using the Pv syst simulation program
 - Predicting how much energy a rooftop solar system can produce each year
 - Calculating the economic returns using the NetPresent Value : NPV



- Design solar rooftop Noppachai Plastic factory systems from sizes 490 kW
 - Make BOQ table solar rooftop Noppachai Plastic factory
 - List of equipment orders to the purchasing department (PR) solar rooftop Noppachai Plastic factory



- Install Solar Rooftop System and Communication SystemNoppachai Plastic factory systems from sizes 490 kW



- Design solar rooftop
KATEVANICH INDUSTRY
CO., LTD. factory systems
from sizes 760 kW

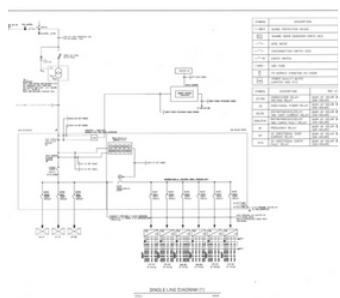
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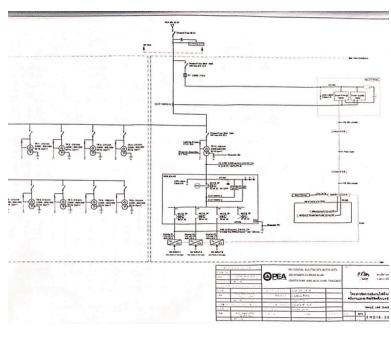


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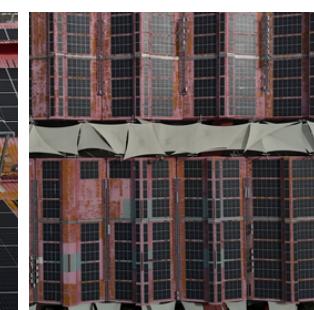
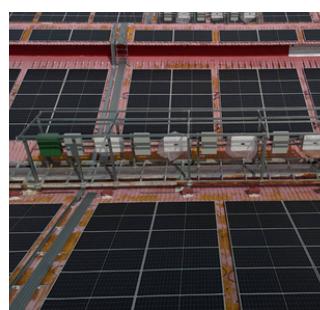
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- Design and checking installation solar rooftop (PPA) sizing 300 kW



- Checking installation solar car port Korat Zoo 400 kW .



- Checking Installation solar rooftop Asia teak .



- Power outage for the tie-in of the solar cell system to the MDB cabinet of Asiatique.

- Check items have been delivered to the work site and Checking installation Intercontinental Chiang mai

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Description	PRA's Specification	Proposed	Conclusion
1. ผู้ดูแลไฟฟ้าต้องตรวจสอบว่าตัวตัดไฟฟ้าที่ติดตั้งอยู่ในห้องแม่ข่ายต้องเป็นตัวตัดไฟฟ้าที่ได้รับการอนุมัติจากผู้ผลิตและต้องมีความสามารถในการตัดไฟฟ้าได้ทันทีเมื่อได้รับสัญญาณตัดไฟฟ้า	ใช่ตามที่ระบุไว้ในเอกสารที่ได้รับอนุมัติ	ใช่ตามที่ระบุไว้ในเอกสารที่ได้รับอนุมัติ	การติดตั้งตัวตัดไฟฟ้าที่ได้รับอนุมัติจากผู้ผลิตและต้องมีความสามารถในการตัดไฟฟ้าได้ทันทีเมื่อได้รับสัญญาณตัดไฟฟ้า



- Check the product list documents of electrical equipment in PEA power stations to ensure they meet standards.

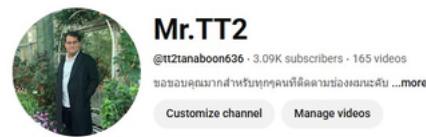
- Survey and inspect equipment at PEA power stations
- Certificate of internship completion from the Electrical and Mechanical Engineering Division, Substation Equipment Engineering in PEA



- Honorable Mention for using AutoCAD For Electrical Engineering (2022)



- Introduction to Energy-Saving Transformers and Smart Monitoring Systems QTC Energy (2025)



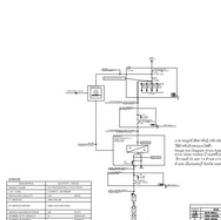
- Personal YouTube channel Name MR.TT2 as a hobby, creating content regularly.

Gained over 3,000 ++subscribers,

- Medals of appreciation for the first 100 people to finish line in the 5km run at the fundraising event for the construction of the Faculty of Medicine, Kasetart University



- Volunteered in building a mushroom farm for a local school in Surin Province. (2019)



- Created and published a personal portfolio website showcasing my projects and skills.

Available at:

<https://tanaboon123.github.io/my-portfolio/>



- Design permission and installed on-grid solar systems for relatives' homes.

- Successfully lost 30 kilograms in 3 months through disciplined exercise and diet control.