



**SRI VENKATESWARA
COLLEGE OF ENGINEERING**

(AN AUTONOMOUS INSTITUTION - AFFILIATED TO ANNA UNIVERSITY)
PENNALUR, SRIPERUMBUDUR TK - 602 117, TAMIL NADU



ASSOCIATION OF ELECTRICAL AND ELECTRONICS ENGINEERS
PRESENTS

SOLAR - WIND HYBRID SYSTEM DESIGN AND SIZING OF ESSENTIAL COMPONENTS

SPEAKER

Mr. G. YUVARAJ
DIRECTOR - LABTECH ELECTRONICS
CHENNAI



DATE : 27TH JUNE 2020
TIME : 10.30 AM - 12.00 PM

Convener

Dr.KR.Santha, Vice Principal,
Professor & Head of Dept,
Department of EEE

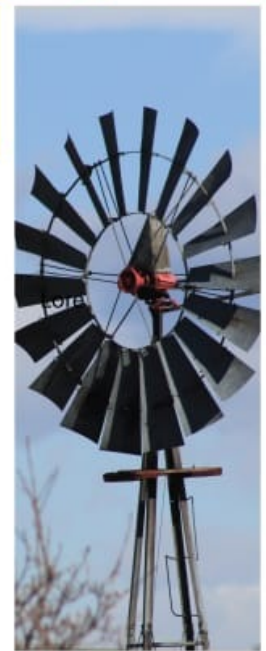
Co-ordinators

Dr.C. Gopinath, Associate Professor
Mr.C. Venkatesan, Assistant Professor
Mr.T. Annamalai, Assistant Professor
Ms.S. Anitha, Assistant Professor
Mr.S.S. Sethuraman, Assistant Professor
Mr.D.S. Purushothaman, Assistant Professor
Department of EEE

E-CERTIFICATE
will be provided



SCAN ME



**SRI VENKATESWARA COLLEGE OF ENGINEERING (SVCE)
PENNALUR, SRIPERUMBUDUR-602117**



**REPORT ON “WEBINAR ON SOLAR-WIND HYBRID SYSTEM – DESIGN AND SIZING OF
ESSENTIAL COMPONENTS” BY Mr. G. YUVARAJ, DIRECTOR, LABTECH ELECTRONICS,
CHENNAI**

Date: 27.06.2020

Time: 10:30 AM – 12.00 NOON

Objectives (Maximum 50 words):

To understand the concept of design and sizing for the Solar-Wind Hybrid system and its relevant essential components for power generation. To learn about the various components available for design a solar-wind hybrid system and to understand the design and sizing concept based on the power level requirement.

About the programme (Min 500 words):

A Webinar about Solar-Wind Hybrid System – Design and Sizing of Essential Components, in which its going to discuss about the various micro wind turbine generator with Wind-Solar Hybrid system through its laboratory tool demo kit (LT7003EL) and through the demo session, for measuring the wind speed and its braking mechanism through its tool kit. To practice about its simulation software using qblade for the hybrid system. To discuss about various PV with wind hybrid system with its benefits and short comes based on the power level. To discuss the scenario behind the selection of components and its arrangements for creating the hybrid system. More specifically, this webinar is helpful for various industry collaborators, technical experts, research scholars under this field to enhance their recent developments to meet their client’s requirements.

Benefits (Maximum 50 words):

Different issues in Wind-Solar Hybrid system are discussed and trained to make them combine to meet the various design and sizing concepts based on the different power levels. Various Solar PV panels with its purpose are clearly discussed and its methods to retrieve the maximum power. Similarly for the wind mill, various micro wind turbine generators are discussed and make them to clear measurement about the wind speed and braking mechanism.

Prepared by Faculty Name, Designation & Dept.

Dr. C. GOPINATH, ASSOCIATE PROFESSOR,
Co-ordinators,

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING



Dr. C. Gopinath,
Associate Professor,
Co ordinator



Head of the Department
Department of Electrical and Electronics Engineering
Sri Venkateswara College of Engineering
Pennalur, Sriperumbudur Taluk-602 117
Tamilnadu, INDIA

Wind Solar Hybrid

- For the hybrid system to work, atleast 60% of the power must come from 'wind' and the wind speed should be atleast 15 kmph on a average.
- The cost of Hybrid system is 40%-50% cheaper than pure play solar system.



2338079998496393474

0:31:10



1:02:05

AutoSave [CD] Grid_Tie_Without_Battery_Design_Simulation_Tool (2) - Excel Yuvaraj G

File Home Insert Draw Page Layout Formulas Data Review View Developer Add-ins Help

Calibri 11 A A

Wrap Text

General

Conditional Formatting

Format as Table

Cell Styles

Insert Delete Format

AutoSum

Fill

Clear

Sort & Filter

Find & Select

Ideas

M17

A B C D E F G H I J K L M N O

SPV Grid Tie - Without Battery - Design

#DIV/0!
#DIV/0!


Solar Power Plant	
Make	0
Capacity of Panel	0 Wp
Total No of Panels	#DIV/0! #####
No of Strings	1 No
No of Panel in Series per string	0 Nos
No of Panel in parallel per string	#DIV/0! #####
Total Capacity	#DIV/0! KWp

Grid Tie Inverter	
Make	0
Capacity	0 KVA
Quantity	#DIV/0! #####
Total Capacity	#DIV/0! KVA

Grid

Distribution Board

Tool Designed & Developed by


Innovation/ TEDA
Paranthaman. M
paranthaman1990@gmail.com

Title Sheet SPV plant sizing -Des SPV Panel - Generatr Simulation Grid Inver & Solar String -Des Result - SPV Plant Design

Ready Type here to search 11:13 27-06-2020