



VRUTIK BHARATBHAII VAGHANI

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🚩 INDIAN 📅 11 Aug 2000

CAREER OBJECTIVE

To excel as an energy engineer in a globally respected organization, where i can leverage my advanced technical skills and commitment to sustainability to contribute to the company's goals. Dedicated to achieving excellence with integrity and fairness while continuously enhancing my expertise in energy systems and innovative technologies to drive impactful and sustainable energy solutions.

Education

M.TECH (ENERGY ENGINEERING)	2022 – 2024
GOVERNMENT ENGINEERING COLLEGE, VALSAD	VALSAD, INDIA
7.50 CPI	
B.TECH (MECHANICAL ENGINEERING)	2018 – 2022
PARUL INSTITUTE OF ENGINEERING AND TECHNOLOGY	VADODARA, INDIA
8.64 CGPA	
12th	2018
KAUSHAL VIDHYABHAVAN	SURAT, INDIA
54.62%	
10th	2016
P. P. SAVANI CHAITANIYA VIDYA SANKUL	SURAT, INDIA
7.80 CGPA	

Languages

- ENGLISH
- GUJARATI
- HINDI

Courses

INTRODUCTION TO PROBABILITY	2022
HARVARD UNIVERSITY	CAMBRIDGE, UNITED STATES
RENEWABLE SOURCES OF ENERGY	2021
WROCLAW UNIVERSITY OF SCIENCE AND TECHNOLOGY	WROCLAW, POLAND

Projects

NUMERICAL SHAPE OPTIMIZATION OF LATENT HEAT THERMAL ENERGY STORAGE TO REDUCE THE TOTAL CHARGING TIME

2024

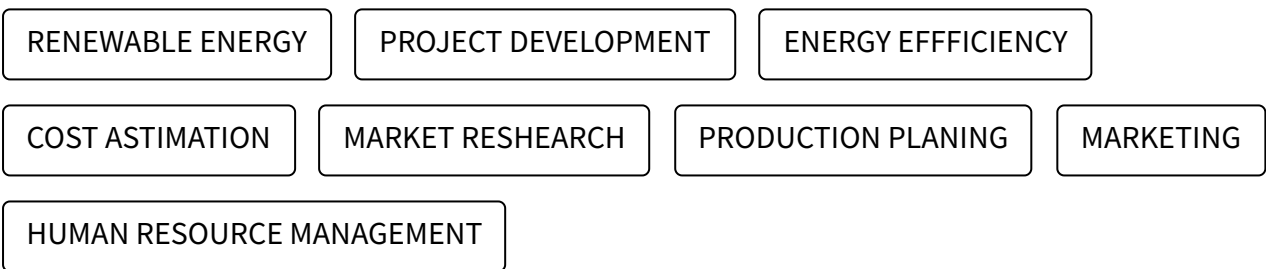
This study highlights the critical impact of shell orientation on the liquification process in a Latent Heat Thermal Energy Storage System (LHTESS) with paraffin wax. By incorporating buoyancy effects and using Fluent21 R2, it was found that a 45° orientation is the most effective for optimizing heat transfer rates and phase shifting. Adjusting to this angle significantly enhances the efficiency of heat transmission during the charging process, offering valuable insights for improving thermal energy storage system design and performance.

WASTE TO ENERGY CONSERVATION

2022

We utilize waste as a raw material to assess the feasibility of vertical axis wind turbine blades. Additionally, we have developed a system aimed at minimizing waste generation at the source, contributing to environmental cleanliness and economic development.

Skills



Declaration

Hereby I am declaring that all the information given above is true to the best of my knowledge.