As sustainable energy is the Riture, it is consumers as well. important to move towards clean energy solutions and develop innovative strategies to advess the problem.

Executive Summary Snapshot
Being sustainably considus, our main motive is to improve the performance of Solar panels in low-light conditions, thus promoting use of renewable energy. Advanced models 'Il be implemented under varying weather conditions.

The Research shows that during hazy conditions the ranges of power generator reductions are 20% to 60%. Even extreme heat exposure degrades the cells (solar), Bifacial Solar panels have 10 to 20% better outcome than monfacials. The research indicates that climatic factors affect a lot. Thus, innovation & investments in these solution is important

Data

The Slope of the proposed project is to improve designs for efficient operations.

The Process holds of firstly having or Collecting data based on analysis of various weather conditions. Redesigning panels and then testing and take across to enhance reliability.

Project Description

The purpose of this project is to enhance the reliability and sustainability of solar energy systems. Improve the power generation even in hazy conditions:

Trrespective of the weather conditions there should be consistent power generation.

The Current Solutions State using bilacial? thin Blm solar panels: Batteries (lithium-ion) i.e. energy storage systems for later use or combining solar with waind power to ensure reliability.

The Challenges Consist of highercosts of bifacial ones and their installation at right angles. And to achieve appropriate policies to encourage widespread adoption of these technologies

The reason behind to work or take

The reason behind to work or take

initiatives is to ensure consistent power

initiatives is to ensure consistent power

supply energy savings. It is sumething

supply energy savings locally we can

by which working locally we can

achieve global challenges & find salutions

achieve global challenges & find salutions

undertaking this project, we ensure

undertaking this project as well the

the benefits of consumers as well the

## Project Scape

The Project Goals are as Follows:

1) Improve efficiency of solar panels
2) Develop solutions for energy Storage
3) Design predictive models for weather (anditions)

The Task is to observe the performance of paners and inbuilt smart grid systems, take feedback and work on the flaws.

our Main Goal is to achieve primarily ho-son improvement in we variable weathern. Ensure that the predictions are accurate and manage installments

The Deliverables report on impovements.

Prototyping Enhances Chances to reduce Flams

Deadlines :-

Protect Completion: - waithin 11-12 months

down the market to shift into renewable tossil Rock. Sources and divert them from Dusiness Privers The project is undertaken Sec. to boing 2002