ORGANIZER

ISGF
India Smart Grid Forum

DISTRIBUTION UTILITY MEET
DUM 2024

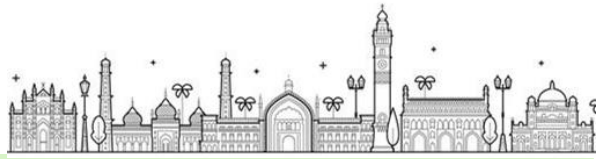
Session 2: Solarization of Agricultural Feeders

HOW DISCOMs SHOULD INTEGRATE RENEWABLES

Presented By:

MOHAK MANGAL AND DHRUV SURI (STANFORD UNIVERSITY)

Distribution Utility Meet | 14 - 15 November 2024 | www.dumindia.in



WHO ARE WE?

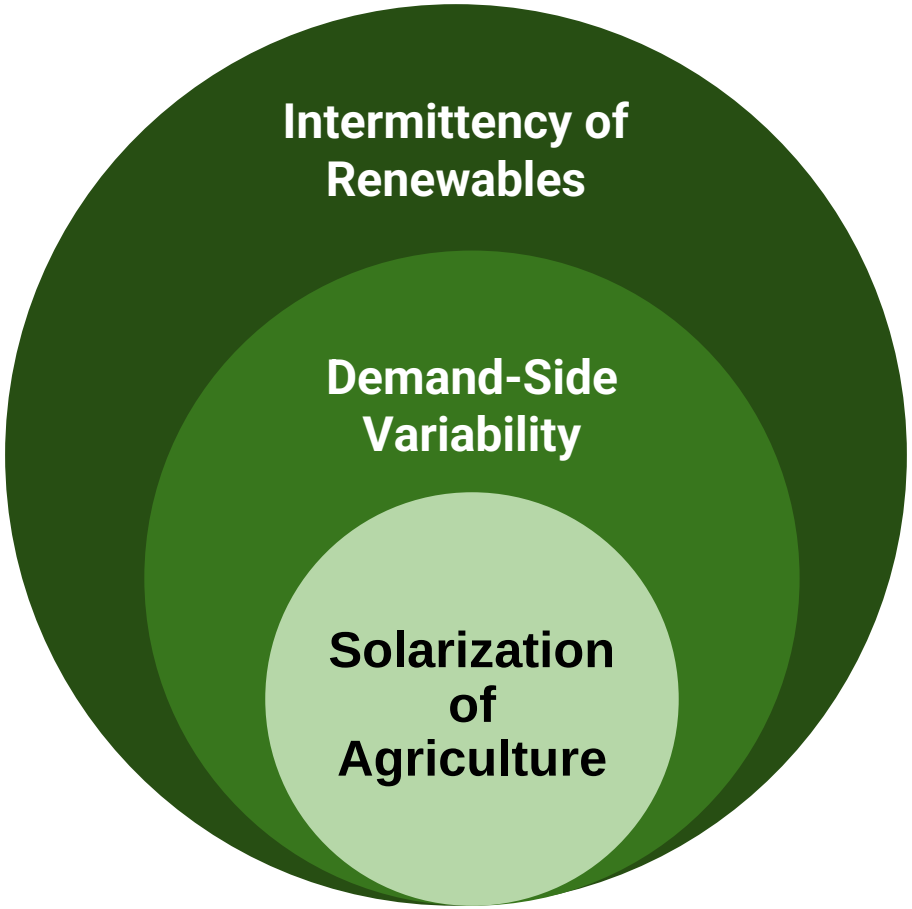
Mohak Mangal

Economist, Stanford MBA Graduate,
YouTuber with 3.6 million followers

Dhruv Suri

PhD Candidate in Energy Science,
Machine Learning expert at Google X

SOLARIZATION CREATES CHALLENGES FOR DISCOMS



Inefficient Dispatch

Unreliable Power

Load Shedding

Inefficient Revenue Collection

AI-enabled distribution and capacity expansion models for real-time operations and planning

1. Google Maps for the Electricity Grid

2. Demand and Generation Forecasts

3. SCED & Production Cost Models

4. AMI + Grid-Edge Infrastructure Integration

Grid Intelligence Platform

Optimized Dispatch

Reliable Power

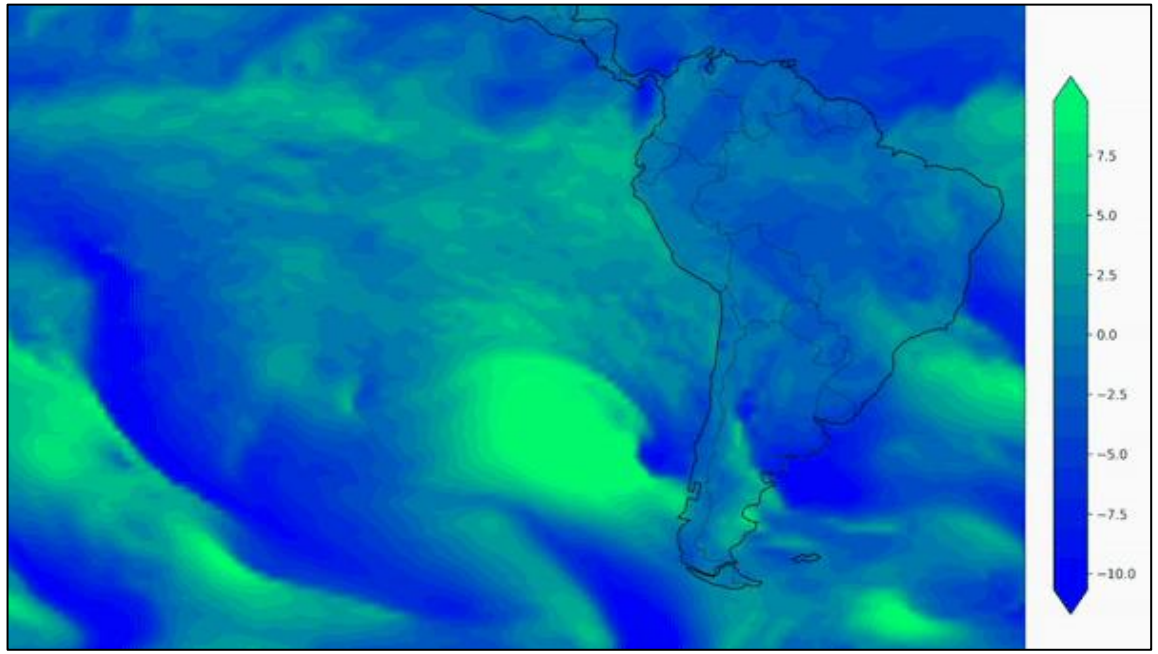
Load Flow Analysis

Efficient Revenue Collection

CASE STUDY: TAPESTRY'S WORK WITH CHILE

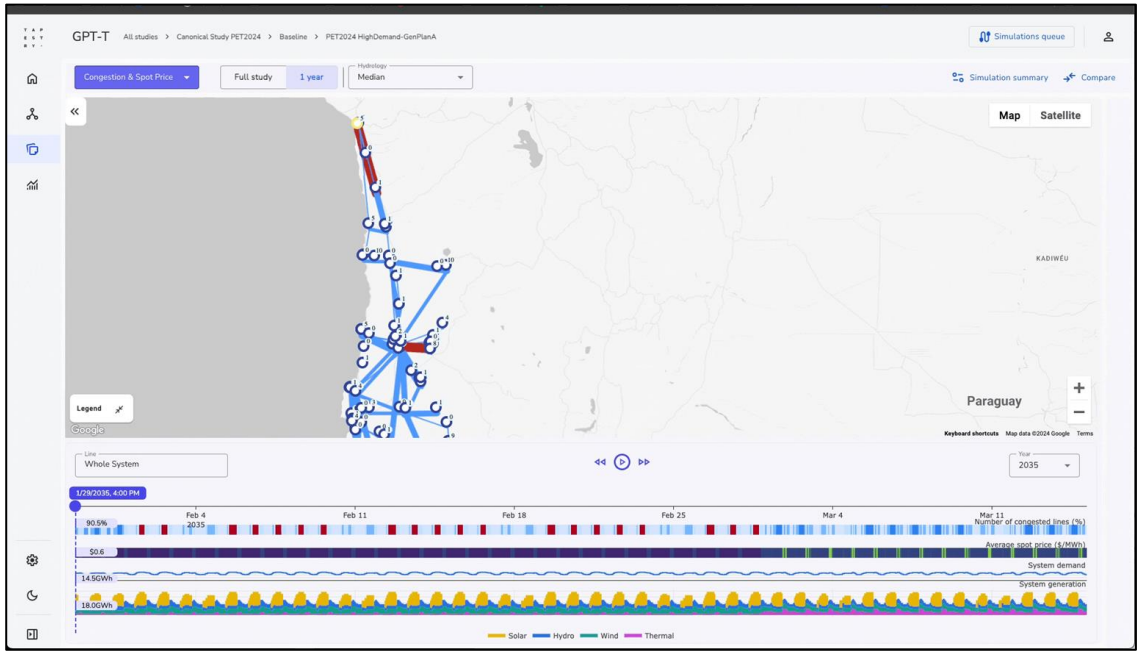
Demand and Generation Forecasts

From seconds to week-ahead using machine learning



Real-time Operations & Planning

From generation to the grid-edge



FOUR-TIERED SOLUTION FOR EFFICIENT OPERATION

- AT&C Loss Reduction
- Real-Time Load Flow Analysis
- Demand and Generation Forecasts
- Create “Google Maps” For The Indian Grid

REACH OUT

Connect with us via email

Mohak Mangal
mohakm@stanford.edu
+917042884428

Dhruv Suri
surid@stanford.edu