

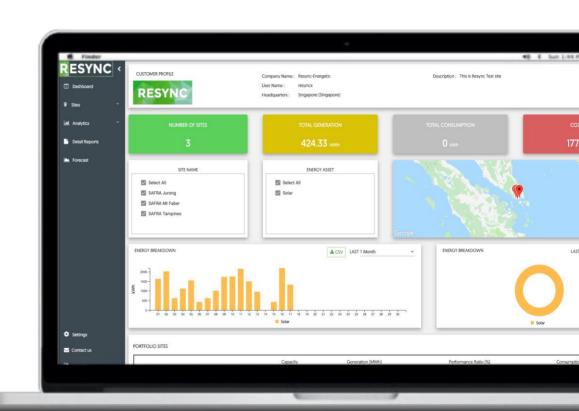
**Tech Sharing** 

Using Al for efficient energy management

By Jayantika Soni, Co-Founder & CTO, Resync



Using Al for Efficient Energy Management



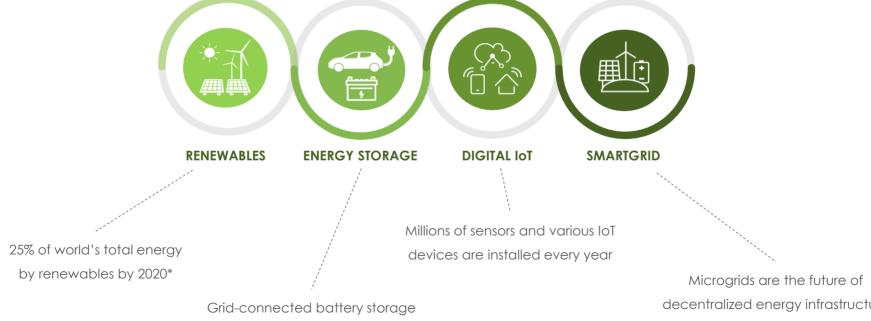
## Global energy sector is in the midst of a major transformation

High penetration of renewables and dropping prices of batteries are disrupting trillion dollars energy infrastructure, by moving from centralized power plants towards distributed energy resources



## Future is a clean, intelligent and distributed energy ecosystem

Energy disruption is mainly driven by a dropping prices of renewables and digitalization of the ecosystem



will grow to \$14 billion by 2021\*

decentralized energy infrastructure

<sup>\* 2018</sup> Energy Storage Outlook by MARKETS INSIDER

# Challenges to overcome towards smart and reliable grid



# RESYNC virtual power plant for efficient smart grids





## Manage all assets on the same platform











## RESYNC's AI based software optimization and real time control



#### **MONITOR**

Aggregation of real time performance data from Building loads, renewable energy assets and electricity tariffs

#### CONTROL AND OPTIMIZE

Take real time control actions on energy sources and controllable loads using our unique algorithms

#### **ANALYSE AND PREDICT**

Creating value for this data, we designed deep learning algorithms to adjust algorithms based on the generation and consumption patters

#### **MANAGE**

All aggregated data is stored in highly secured database, where we perform data segregation and data analytics

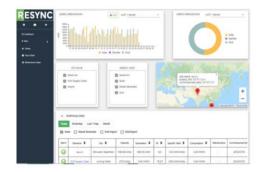
#### **VISUALISE**

Interactive dashboard with real time performance data and individual energy asset visualization. Customized APIs are provided based on the request.

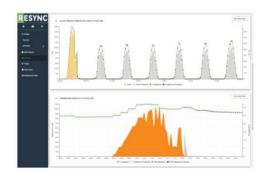
#### **FACILITY MANAGEMENT**

Real-time management of facility stuff with automated alarm notifications, ticketing system and action items.

## Product overview and features



MULTIPLE SITES MONITORING



**FORECAST & REAL-TIME CONTROL** 



**INDIVIDUAL ASSET ANALYSIS** 



**ANALYTICS & OPTIMIZATION** 



**INVERTER LEVEL INSIGHTS** 



**CUSTOMIZED REPORT** 

## Product overview and features



PERFORMANCE EVALUATION



TREND EVALUATION



**I-V CHARACTERISTICS** 



STRING LEVEL ANALYTICS



**MAINTENANCE** 



**TICKETING SYSTEM** 

## Customers

















Customer pipeline



















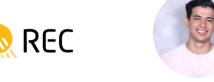






# Multi-disciplinary Team





**Emir Nurov** CEO and co-founder



Dr. Jayantika Soni CTO and co-founder



Neo Jia Jun Lead Data Scientist



Jaydip Prajapati Snr. Firmware Developer













**Mohit Bhalshod** Full Stack Developer



**Zhi Long Yeo** Computer Vision



Ritika Chandgothia **Business Development** 



Mehul Kumar Mobile App Developer





# RESYNC

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### **Partners**





















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