

UJAAS

buzz

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HAPPY NEW YEAR
2018





JMD'S NOTE

CHANGE IS THE ONLY CONSTANT THING IN LIFE.

I was walking in a nearby park close to our residence during morning hours as a part of my everyday routine, observing the nature's beauty with seasonal blooming flowers, fog in the atmosphere at that early hour on a chilly morning & when the sun rises it washes off all the fog and nature is seen in best of the form.

I was amazed to see the significant changes that come with the change in weather... from the scorching heat of April-May to the pleasant rainy days of July–August to cold breezy December-January months.



However, we the humans misuse the nature & its gifts to a great extent; have you heard of one of its ill effects called smog??!! It had affected the citizens of North India adversely, they were compelled to be inside their homes for days & weeks. Even other cities from developed cities like Beijing, China are suffering from Smog.

And you know what are the 2 most relevant causes behind this disaster–air pollution!!!
Due to:

1. Using coal as a fuel
2. Vehicular and industrial emissions

which can be addressed by :

1. Using & promoting Renewable energy.
2. Reducing and managing vehicular and industrial emissions.

Ever wondered how some of the small actions and/or decisions you take leave an impact?
Often, you will not even be aware of the footprints you leave.

Old habits die hard! So, it is the time we thought about these un-mindedly taken wrong actions & conscious decision to correct them by deciding to use solar as much as possible.

I wish to extend my warmest greetings to you all for the New Year 2018. Wishing our planet be a safe & pollution free place for us & generations to come.

I conclude my note with - **“If you want something you've never had, you've got to do something you've never done!”**

**-Vikalp Mundra
Jt. M.D., Ujaas Energy Limited**



UJAAS UPDATES

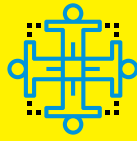
● **Aligarh Muslim University, which is India's no. 1 University at the moment, 3MW project inaugurated on 26th December 2017.**

Project had been installed on the land where it was earlier used for waste dumps and waste sewage water from surrounding colonies diverted in plant area. We have cleared the same and installed 3MW Solar plant on the same.



● **SSNNL 10 MW Canal Bank Solar Plant: (Commissioned on 15.09.2017)**

This project is owned by Sardar Sarovar Narmada Nigam Ltd. and has been installed on 3-4 Km stretch of Vadodara canal Bank in Rawal Village, Vadodara. It is considered one of the best canal bank projects. There were many local challenges as the site is surrounded by agricultural fields and farmers has been obstructing works many times.



HR NEWS

Greetings from HR! From HR front, Q3 focus has been on **Talent Acquisition and Employee Engagement**. We on-boarded on an average 40 new employees in every month of Q3. Considering that December is the month of **celebrations**, we celebrated Christmas and New Year along with our monthly townhall. Everyone had a gala time at the Carnival and looked forward for their own Secret Santa to



lift their spirits high. We also had a team building exercise for the Retail segment. Ujaas's resolution for 2018 is to make **"Every Home - Ujaas Home"**. We all need to work together as one team in making this resolution a reality, by taking a leap higher in displaying ownership, creativity and ensuring absolute customer delight. Let's contribute our best and become a part of this challenging growth journey. As we prepare for the new year and the new opportunities it brings, we really wish that the coming new year marks a fresh new start of a brighter Ujaas and more exciting journeys for all the Ujaasians.

RnR Update: Best Team Q2 – HR, EOMs Q3: Ravi Parihar (Design), Priyaranjan Pattnaik (Projects Rooftop) and Umesh Gupta (BD Rooftop)



CURRENT EVENTS



Ujaas Energy Limited recognized as **“India’s Most Powerful Solar Sector Business Leader”** by Solar Quarter. The ceremony was held in December 2018.



INDUSTRY UPDATES

ROOFTOP SOLAR:

- The center has envisioned generating 40GW through roof-top gridinteractive solar power to fulfill the 100GW target of solar power.

- Target for the year of 2018-2019 is of 6 GW. Buildings consume approximately 40 percent of the energy produced. By installing rooftop solar, 40,000 MW can be generated by 2022



- India (Gujarat) has seen successful implementation of 'rent-a-roof solar power program
- NCEF providing 30% subsidy support for implementing Large scale Grid Connected rooftop pilot projects
- The government has allocated INR 5,000 Crore (US\$ 0.75 billion) for implementation of: 4,200 MW of solar rooftop systems and Grid connected rooftop system.
- India will also witness the modification and digitalization of regulatory clearances like net metering; subsidy filing and DisCom's will also be the frontrunners for establishment of solar energy projects in the state.

GROUND MOUNTED SOLAR:

- The Centre has set an ambitious target of generating 100GW (1,00,000MW) of solar power by 2021-22 under the National Solar Mission
- Envisaged to generate 60GW ground mounted grid-connected solar power.
- India has seen conversion of waste lands into Green Energy land and same is going to expand aggressively in coming years. Ujaas Energy Limited has always been pioneer in the field and recently established and inaugurated India's first green energy university campus through 3 MW Ground mounted solar power plant.
- A ground-mounted solar array can be more productive per panel than a rooftop solar array. The panels are set at the perfect angle to optimize energy production, which means it can generate more electricity than a comparably sized rooftop system and save money in the long run.
- Ground-mounted solar is very easy to access for cleaning and maintenance.

BATTERY STORAGE:

- By 2020, about 11.3 gigawatts of energy storage will be installed globally, equivalent to less than one percent of the total installed capacity of intermittent renewables, according to data from Bloomberg New Energy Finance.
- Battery storage to play an important role in India's sustainable energy future.
- With limited investments in research and development of low cost and efficient battery technologies, the cost of batteries remain high resulting in less commercialization, poor adoption of battery storage. Pumped storage hydropower continues to dominate the energy storage in India.

- Make in India initiative to manufacture cost effective batteries.
- The state-run Solar Energy Corporation of India (SECI) is seeking bids for a 750-megawatt solar park at Ananthapuramu in Andhra Pradesh. In order to supplement the massive series of projects, SECI is looking to procure 100 megawatts of storage capacity.
- Over US\$ 1.3 billion annual battery storage market in India.

SOLAR CITIES:

- Development of 60 solar cities and 33 solar parks
- Metros, airports and railway stations implementing solar projects. Ujaas Energy Limited has installed solar projects two major airports of India i.e. Jaipur & Port Blair.
- The CREDA will be setting up to 1-3 KW capacity solar power plant in all govt. schools, panchayat buildings and Anganwadis in Chhatisgarh.
- In a first of its kind in Central India solar power plant installed on a floating platform at Vidarbha Industries Power Ltd (VIPL), at Butibori, is being seen as a major advance with multiple advantages.

SMART VILLAGES:

- Census 2011 data shows inequalities in basic amenities between rural & urban India:
- While 93% of urban households have electricity, only 55% of rural households have it
- While 71% of urban households have access to piped water connections, the figure is only 35% for rural households.

- Only 31% of rural households have access to toilets, while 81% of urban households have latrines
- Prime Minister Modi launches mission aimed at turning rural areas into economically, socially and physically sustainable spaces. Launched the Shyama Prasad Mukherji Rurban Mission (SPMRM) aimed at making villages smart and growth centers of the nation.
- Develop around 2,500 Smart Villages by 2019, incorporating solar pumps for irrigation, solar water heaters, solar panels connected with batteries for home lighting and street lighting etc.
- A micro grid comprised power generation system, energy storage facility and the load management system. Micro grid of 2-3 MW capacity could cater to 5,000 households
- Rurban Mission launched by the Government recently (beginning from a small tribal cluster of Chhattisgarh) aims to bring together 5-7 villages into a cluster with population of 25,000 people. It will be then developed on all fronts like a city with economic standards, electricity, health and education facilities and employment opportunities for locals.
- Odisha government plans to develop 50 MW canal bank solar projects by 2022
- Under Green development initiative two Andhra villages- Toorputallu and Pedhamyanavanilanka will be electrified completely on solar power.
- Under DDUGJY-RE, Ministry of Power has sanctioned 921 projects to electrify 1,21,225 un-electrified villages, intensive electrification of 5,92,979 partially electrified villages and provide free electricity connections to 397.45 lakh BPL rural households

MICRO GRIDS:

- Micro grid as a concept may be young, but it holds the key to lighting and digitally connecting millions of lives
- The notation of micro grids came from the availability of renewable power and due to demand of electricity from remote areas
- These are grid-independent self-sufficient grids in remote areas where one uses diesel together with renewable energy to generate power for a targeted population

STREET LIGHTING:

- The Bureau of Energy Efficiency (BEE) is laying down standards for all stakeholders of street lighting, which involves use of efficient lamp technologies, optimization of pole and placement, efficient light distribution that balances the need for light and visibility
- Solar LED street lighting is an especially cost-effective solution for parking lots, parks, residential streets, airports, and other applications where providing electricity is expensive or problematic
- Solar street lights require much less maintenance compared to conventional street lights.
- UPNEDA (Uttar Pradesh New Renewable Energy Development Agency) has set up about 1.25 lakh solar energy based street lighting plants till date under the street lighting program
- Energization of Street Lights with Solar Power is a State funded scheme of Tamilnadu under which solar powered street lights were installed in 1,000 Village Panchayats investing a sum of Rs.52.50 crore for energization of 20,000 street over a period of 5 years from 2011-12.

ENERGY EFFICIENT PRODUCTS:

- Consumer Products: solar water heating systems; Solar home lighting systems; solar lanterns; solar pumps; solar mobile chargers; solar cookers; LED solar torch; solar RO plant; solar fan, solar Inverters etc.

Commercial Products: Solar traffic signals; solar road studs/blinkers, etc.

GOVERNMENT INITIATIVES:

- India has added a total of 2,311.88 MW of grid-connected power generation capacity from renewable energy sources like solar and wind this fiscal in the country.
- The Government of India has up-scaled the target of renewable energy capacity to 175 GW by the year 2022. The new target includes 100 GW from solar, 60 GW from wind, 10 GW from bio-power and 5 GW from small hydro-power.
- The government has implemented a scheme to install one lakh solar pumps for irrigation and drinking water through State Nodal Agencies and NABARD.
- The Government has approved a Scheme for setting up of 25 Solar Parks, each with the capacity of 500 MW and above in next 5 years in various States with Central Government financial support of Rs. 4050 crore
- Setting up of over 300 MW of Grid-Connected Solar PV Power Projects by Defense establishments and Para Military Forces with viability gap funding
- Implementation of Scheme for setting up 1000 MW of Grid Connected Solar PV Power projects by CPSUs and GOI organization's with Viability Gap Funding in three years period from 2015-16 to 2017-18
- The government has set a target of 4,460 MW of power generation capacity addition this fiscal from renewable energy sources, including solar, wind and hydro power.



**LATEST
BLOG**

WHY ENERGY SAVING IS THE NEW MONEY SAVING IDEA?

The new era is filled with varied investment options which make it really easy for you to save tons of money. Saving money by reducing your electricity bill is one of the main reasons for installing a Solar Rooftop system. No matter how small your installation is, you will

Read more...



**Why Energy Saving
Is The New
Money Saving Idea**



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