

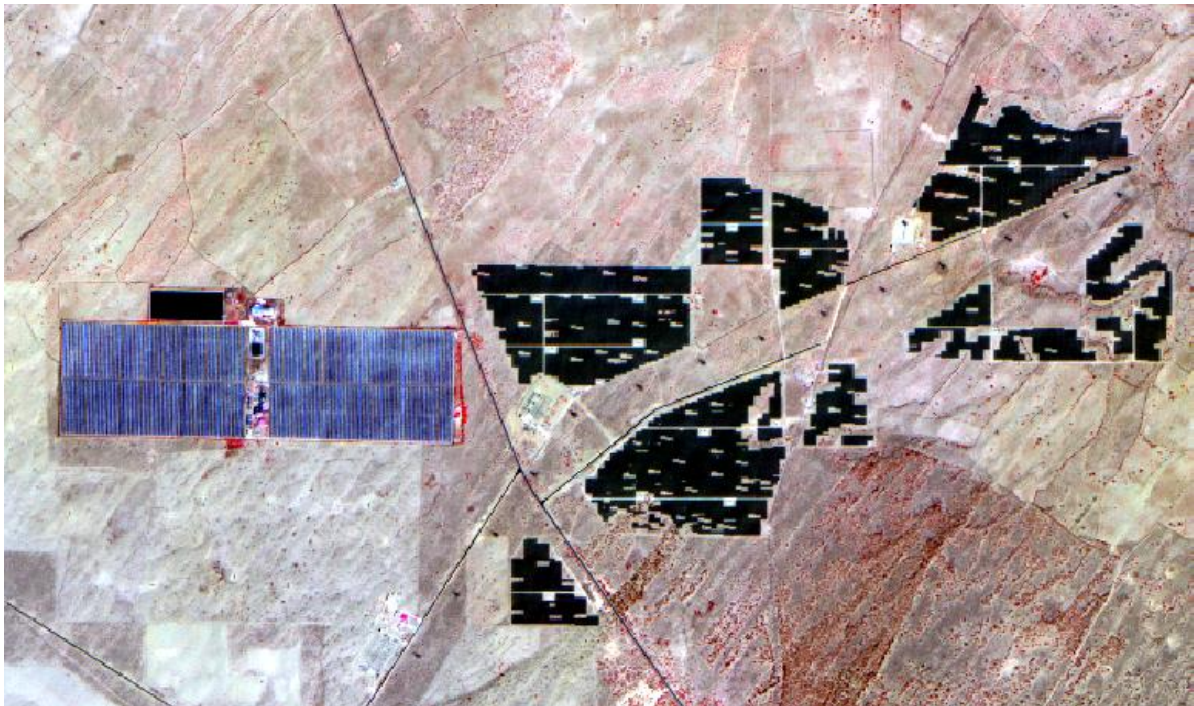
Solar power plants extracted across Rajasthan from R2A LISS IV data using Artificial Intelligence model .

## Description

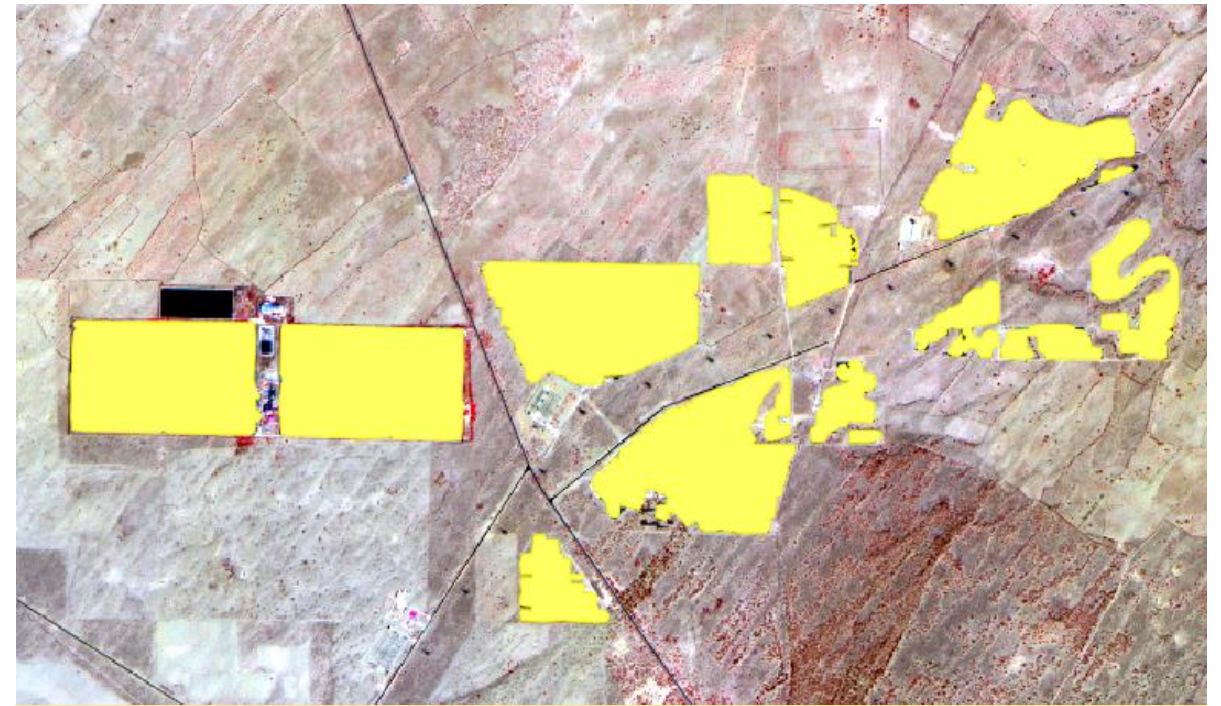
Solar power plants are extracted for Rajasthan state using artificial intelligence based deep learning neural network for year (Jan-April) 2023. Indian Remote sensing (IRS) Resourcesat-2A LISS IV satellite data is used with 5m ground spatial resolution and three spectral bands green, red and NIR. This work is carried under TDP- 202302021, title “*Deep learning Based Solar Plants Identification using high-resolution remote sensing data*”. It is available in “New and Renewable Energy Applications” under VEDAS. All India level solar power plants extraction utilizing IRS data is in progress. Available at <https://vedas.sac.gov.in/renewable-energy/index.html>

*Solar power plants extracted from R2A LISS IV data for year Jan-April, 2023.*



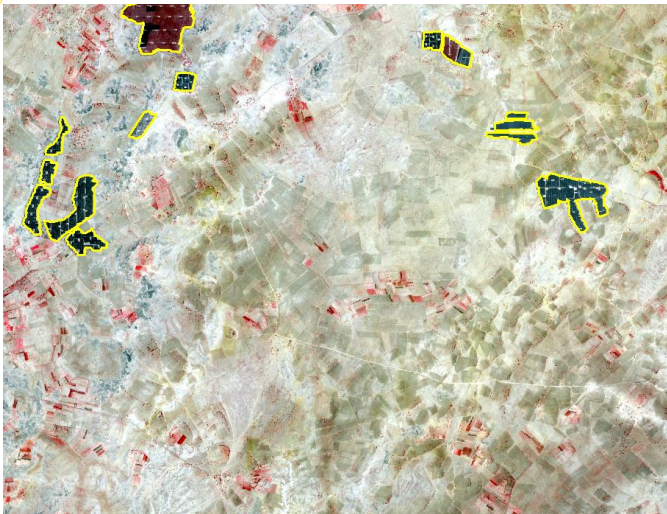


Resourcesat-2A LISS-IV FCC satellite data, 24<sup>th</sup> April, 2023

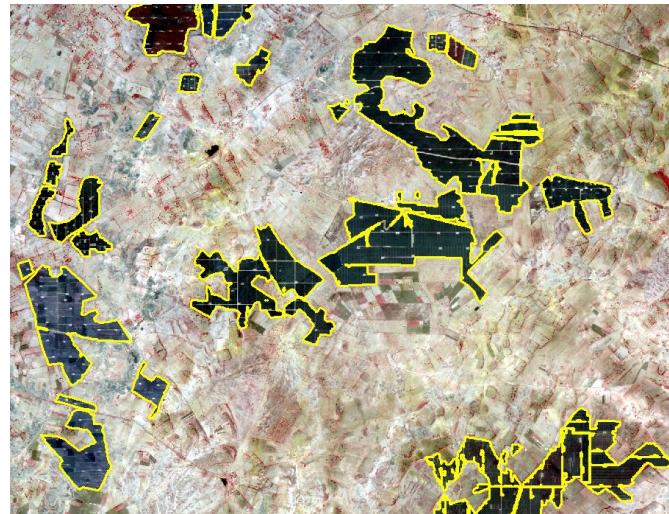


Solar Panels extracted using AI-Deep learning, 24<sup>th</sup> April, 2023

## Temporal Change of Solar Plants in Rajasthan from year 2018 to 2023



Extracted Solar Panels in 16<sup>th</sup> March, 2018



Extracted Solar Panels in 24<sup>th</sup> April, 2023

*Temporal change analysis of Solar Plants for the Rajasthan state from year 2018 till 2023 is done using Resourcesat-2A LISS-IV data. It is found that in past five years solar power plants inventories are increased nearly six times.*