

THIRD PARTY API

Date	20 Nov 2022
Team ID	PNT2022TMID52191
Project Name	Predicting the energy output of Wind Turbine based on Weather conditions
Maximum Marks	2 Marks

What is an Open Weather API?

For each point on the globe, Open Weather provides hyperlocal minute forecast, historical data, current state, and from short-term to annual and forecasted weather data. All data is available via industry standard APIs.

What can you do with a weather API?

If you are creating an app that needs to combine user activity and weather conditions at the time of that activity, a weather API allows you to retrieve that exact weather conditions at any given time and location directly in your code.

API Keys to retrieve the exact Weather Conditions :

The screenshot shows the 'API keys' management page on the OpenWeather website. The page has a dark blue header with the OpenWeather logo and navigation links. Below the header, there's a sub-header with links like 'New Products', 'Services', 'API keys', 'Billing plans', etc. A light blue box contains the text: 'You can generate as many API keys as needed for your subscription. We accumulate the total load from all of them.' Below this, there's a table with columns: 'Key', 'Name', 'Status', and 'Actions'. The table lists two keys: one named 'Default' with key 'c3e4e18a42d55dc9ef082a750ba6fafd' and another named 'Wind energy' with key 'e0a2deb0d2af14c836f6c6a965ecf874'. Both are 'Active'. To the right of the table is a 'Create key' section with an input field for 'API key name' and a 'Generate' button. At the bottom, there's a footer with 'Product Collections', 'Subscription', and 'Company' information.

Key	Name	Status	Actions
c3e4e18a42d55dc9ef082a750ba6fafd	Default	Active	
e0a2deb0d2af14c836f6c6a965ecf874	Wind energy	Active	

Create key

API key name Generate

Weather in your city :

The screenshot shows a web browser window with the OpenWeatherMap website. The address bar shows the URL `openweathermap.org/find?utf8=✓&q=Tirunelveli`. The website has a navigation bar with links like "Guide", "API", "Dashboard", "Marketplace", "Pricing", "Maps", "Our Initiatives", "Partners", "Blog", "For Business", and "Support". The main heading is "Weather in your city". Below this is a search bar with "Tirunelveli" entered and a "Search" button. The search results show "Tirunelveli, IN" with a weather icon of overcast clouds. The temperature is 25.6°C, and the description is "temperature from 25.6 to 25.6 °C, wind 3.55 m/s, clouds 100 %, 1009 hpa". The geo coordinates are [8.7333, 77.7]. Below the search results, there is a section titled "Search engine is very flexible. How it works:" with a bullet point explaining that users can specify the city name, comma, and 2-letter country code (ISO3166) to get more precise results. The Windows taskbar at the bottom shows the time as 20:22 and the language as ENG.

Find - OpenWeatherMap

openweathermap.org/find?utf8=✓&q=Tirunelveli

OpenWeather

Weather in your city

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Weather in your city

Tirunelveli

Search

Tirunelveli, IN overcast clouds

25.6°C temperature from 25.6 to 25.6 °C, wind 3.55 m/s, clouds 100 %, 1009 hpa

Geo coords [8.7333, 77.7]

Search engine is very flexible. How it works:

- To make it more precise put the city's name, comma, 2-letter country code (ISO3166). You will get all proper cities in chosen country. The order is important - the first is city name then comma then country. Example - London, GB or New York, US.

Windows taskbar: 20:22, ENG