UTOPIA @ NATIONAL INSTITUTE OF TECHNOLOGY

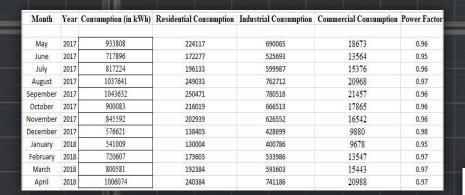
NIT Tiruchirappalli experiences an overall very hot and dry climate throughout the year, making Solar Energy the most efficient source for viable renewable energy for the required demand.

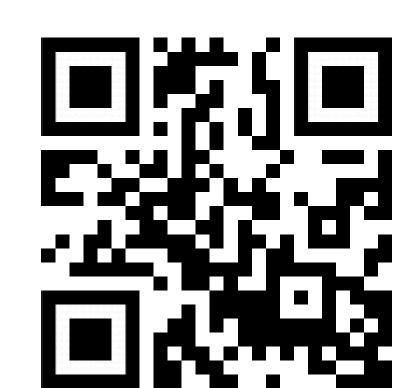
Average Max/Min temperature: 33.5°C/23.9°C

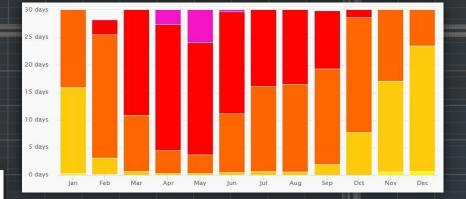
Annual Global Isolation: 1946 kWh/m2/year

Tilt Angle for Solar PV: 9°

The carbon footprint of NITT is close to 7638.95 tones in electricity consumption alone making it one of the biggest institution in this regard. Therefore conversion of all our consumed electricity to a non-CO2 emitting source would be a hallmark to the green-campus initiative NITT strives towards. Solar has minimalistic CO2 production (almost zero) making it further viable for establishment.



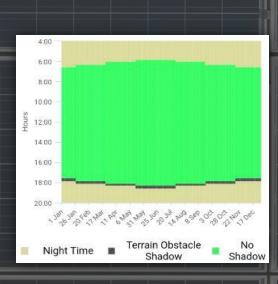




SAVE POLAR













Area: 1, 03,546 m2

Perimeter: 1413.48 m

Approximately 25.5867738294 acre establishment

Electricity generation- 310.12 Lakh kWh per year (329.9% of 2018 consumption)

Establishment cost (approx.) 38.635 crores, with yearly expenditure of 300 lakhs.

Cost saved per year: 6.2 crores + sale of excess electricity.

Payback period – 3 years.

Approximately 15.615972845acre establishment

Electricity generation- 189 Lakh kWh per year (203% of 2018 consumption)

Establishment cost (approx.) 22.78 crores, with yearly expenditure of 180lakhs.

Cost saved per year: 6.2 crores sale of excess electricity. Payback period – 3 years.

No vegetation for removal. Present in sparsely used region. Generating 200% of requirement would mean that NITT can sell the excess for up to 6 crores every year. Safest and most viable setup location within campus

Area: 34,147.76 m2

Perimeter: 892.66 m

Approximately 8.438095261049 acre establishment

Electricity generation- 102 Lakh kWh per year (109% of 2018 consumption)

Establishment cost (approx.) 12.28 crores, with yearly expenditure of 96lakhs.

Cost saved per year: 6.2 crores.

Payback period – 1.5 years.

THE FUTURE IS SOLAR. THE FUTURE IS NOW.