

INS Sarvekshak becomes India's first ship to go green

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(<http://currentaffairs.gktoday.in/ins-sarvekshak-indias-ship-green-02201741151.html>)



Indian Navy's survey vessel INS Sarvekshak, based at the Southern Naval Command in Kochi became the first naval ship to go green by installing a solar power system on board. It has innovatively deployed the zero-maintenance solar power system, capable of generating 5.4KW electricity and replacing the ship's traditional 4.4KW emergency diesel alternator.

Key Facts

- The solar power generating system has been installed by customising and installing 'razor-thin, flexible' solar panels on the canopy of its telescopic (retractable) helicopter deck.
- It has light weight, extra-thin and flexible unbreakable solar panels imported from US along with no-fume solid electrolyte batteries.
- These industrial grade panels are found to be performing well in all-light conditions and are shade-tolerant. They also have a maintenance free life for 24 years making it maintenance free.
- The system is 100% reliable for power source that can be used for communication equipment, general lightings onboard and battery charging round the clock with battery outputs during night.
- The low cost system will slash a yearly carbon emission of 60,225 kg and save around 22,995 litres of diesel used to run the vessel's emergency diesel alternator.