

## Eco-friendly Renewable Energy with Reduced Carbon Emission

### Innovation Challenge

As part of “EngSUI” – a Start-up India Initiative, EIL is launching “**Eco-friendly Renewable Energy with Reduced Carbon Emission Innovation Challenge**”. Today approximately 70% of worldwide energy use is derived from burning fossil fuels such as coal, crude oil & natural gas. World electrical energy consumption is increasing at the rate of 1.4% per year, with an associated increase in greenhouse gas (GHG) emissions that are negatively affecting the climate around the globe. As energy demand is foreseen to increase, continuous use of fossil fuel to satisfy this demand is untenable, more so to limit global warming to well below 2 °C as set out in the Paris Agreement on Climate Change. In order to redress this grim situation, a fundamental transformation of the world’s power systems is needed to deliver zero-emissions power to an increasingly electricity-hungry world. A key challenge on this front is to produce fuels that are carbon neutral both in their production and use. The potential of solar energy for its contribution to a clean energy future is also far from being exploited fully.

This Innovation Challenge aims to accelerate innovation in processes and the associated hardware / sensors etc. for high-performance, renewable and low-cost clean energy substitutes to the present fossil-fuel based energy systems e.g. Solar Energy Innovation, Off-Grid Electricity innovation, Carbon Capture Innovation, Innovative Re-refining of used lubricating oils without solvent/acid treatment to avoid environmental degradation, Reutilization of Insulation material, Waste to energy, Ultrasonic Steam Trap Leakage/Heat Exchanger Leak/Corrosion Monitoring Sensors etc. to save energy.

Participants are requested to submit their potential project proposal (which shall include brief Technical Description, Objective, Expectations, Advantages over the Conventional Process, Estimated Cost and Time Schedule) through any of the Incubation Centres listed on EIL’s dedicated web-portal EngSUI (<http://www.eil.co.in/engsui>) on or before **15<sup>th</sup> June 2017**. Shortlisted innovations will be provided with Intellectual, Infrastructural and Financial support to promote their prototypes and explore their scalability under the EngSUI funding scheme.

For more information write us at [engsui@eil.co.in](mailto:engsui@eil.co.in)

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