

Prof. Arun Kumar's Profile

He, a civil, water resources and hydropower engineer by education, works at Department of Hydro and Renewable Energy (formerly AHEC), Indian Institute of Technology Roorkee from its inception and is well known professional for small hydropower and environmental management of Rivers and lakes.

- Neepaco chair professor
- IITR Research Award HRED Hydro and Renewable energy- 2021
- Board member international Hydropower Association since Oct 2021
- Vice President, Federation of Indian Small Hydropower (FISH)
- Fellow ASCE and IHA
- Independent Director on Board of NHPC Ltd Nov 2015- Nov 2019
- MNRE Chair Professor (July 2013 - April 2018)
- Headed AHEC-IITR for 14 years from 1998-2011.
- Led multidisciplinary expert team working for environmental management of rivers and lakes
- Has over 40 year experience of research, development, extension and teaching experience in the area of SHP and other renewable energy sources
- Coordinating Lead Author for Hydropower of Special Report on Renewable Energy Sources (SRREN) for IPCC – WG III 2009–11.
- * Carried cumulative EIA of HP projects on river basins
- Worked for various international funded assignments as intl expert for UN agencies for assessment of SHP and Capacity Building in Cambodia, Sudan, Tanzania, Indonesia, Zambia, Sierra Leone and Sri Lanka.
- Involved in SHP Development related projects of over 3000 MW capacity at various stages eg DPRs, Specs, Detailed Engg Designs and construction drawings, Pre-feasibility Reports, Planning and Execution, Appraisal Reports and R&D .
- Developing a laboratory for Sediment Monitoring and Impact Analysis Studies in Hydro Power Plant.
- Initiated and developed 27 standards for small hydro power development through consultative process.
- Initiated and established SPV-1.81 MW, 3.5 lacs LPD solar water heating and 61 solar cooking dishes in IIT Roorkee.
- International short term training programmes in India and abroad.
- A real time simulator for shp has been established by him.
- Traveled widely to North America, Central America, South America, Europe, Africa, Middle.
- Specialties: hydropower, Pumped storage, small hydropower, Sediment erosion environmental management of rivers and lakes GHG Emissions from water bodies, Floating solar, Energy policy and economics.