

Department of Electrical and Electronics Engineering National Institute of Technology, Tiruchirappalli



Sponsored projects : on-going

Project Title	Amount (Rs. Lakhs)	Project Duration	Funding Agency	Investigator(s)
Development of DC-DC converter and Bi-directional converter for SPV applications.	19.64	2012-14	NaMPET	Dr.G.Saravana Ilango Dr. C.Nagamani Dr.N.Kumaresan Dr. S.Senthil Kumar
Development of a Micro-Grid Test-bed for renewable energy management systems.	20.85	2012-15	SERB	Dr.M.Jaya Bharata Reddy
Corporate Sustainable Development Project. (collaboration with BHEL)	32.00	2013-14	BHEL	Dr. K. Sundareswaran
A Novel Hybrid System for supplying Isolated Loads with FPGA Based Energy Management Scheme.	73.26	2014 - 17	C-WET	Dr.N.Kumaresan Dr.M.P.Selvan Dr.S.Moorthi.
Study and Implementation of Different Power Saving Techniques for the Efficient Utilization of Air Conditioner by Using Renewable Power Resources.	63.98	2014-18	MHRD	Dr.V.Sankaranarayanan
Design, Development and Analysis of Bio-inspired control strategies for stand-alone solar powered LED lighting Systems.	44.74	2014-17	MHRD	Mr.P.Srinivasarao Nayak
Maximum Power Extraction from off-shore wind-driven Generators through HVDC Transmission System.	38.56	2014-17	MHRD	Dr.P.Raja

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Sponsored projects : on-going (contd.)

Project Title	Amount (Rs. Lakhs)	Project Duration	Funding Agency	Investigator(s)
Power Optimization Controller in Switched Mode Power Supplies Connected with Renewable Energy Sources.	35.24	2014-17	MHRD	Mrs.S.Mageshwari
A pilot Project on Economic Demand response management through online Monitoring.	24.39	2013-16	SERB	Dr.Sishaj P. Simon
Maximum demand control through Modern Algorithms.	1.00	2013-16	Southern Railway	Dr.Sishaj P. Simon
Design and development of improved shunt active filter with enhanced signal processing with due consideration for distorted utility.	14.50	2009-14	DST	Dr.G.Saravana Ilango
Total	368.16			

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Sponsored projects : completed

Project Title	Amount (Rs. Lakhs)	Project Duration	Funding Agency	Investigator(s)
Neural controller for integrated wind/solar system for battery charging.	05.00	2000-02	MHRD	Dr. N.Ammasai Gounden Dr. S. Arul Daniel
Development of neuro-fuzzy controller for high performance voltage controlled induction motor drive.	08.00	2001-03	MHRD	Dr. K. Sundareswaran
Application of Genetic Algorithm for High performance power Converters.	06.00	2002-05	MHRD	Dr. K. Sundareswaran
Control of a hybrid wind-driven induction generator and PV array distributed generator for the isolated and grid-connected operations.	08.00	2004-06	MHRD	Dr. S. Arul Daniel
Unified Power flow Controller(UPFC) for enhanced utilization and control of the existing power transmission system.	10.00	2003-07	MHRD	Dr.C.Nagamani
Power Quality Improvement Using Unified Series Shunt Compensator (USSC).	13.8	2009-12	DST, Govt.	Dr.M.P.Selvan
Development of Power Electronics Laboratory.	34.00	2008-09	NaMPET	Dr.C.Nagamani Dr.N.Ammasai Gounden Dr.N.Kumaresan Dr.G.Saravana Ilango Dr. S. Senthil Kumar

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Sponsored projects : completed (contd.)

Project Title	Amount (Rs. Lakhs)	Project Duration	Funding Agency	Investigator(s)
Career Award for Young Teachers	10.50	2006-09	AICTE	Dr. N. Kumaresan
Design of PLL based Clock Generators for SoC applications	02.00	2007-08	TEQIP– Joint Research	Dr. N.Ammasai Gounden Mr. S. Moorthi
Development of Micro-Grid Controller integrated with multiple types of renewable sources and loads.	14.95	2013-14	Power Grid	Dr. N.Kumaresan Dr.M.P.Selvan Dr.S. Moorthi Dr.N. Ammasai Gounden
Development Projects				
FIST	21.00	2003-08	DST	Dr. N.Ammasai Gounden Dr. S. Arul Daniel
Development of Power Electronics Lab	34.00	2007-08	NaMPET	Dr. C. Nagamani Dr. N.Ammasai Gounden Dr.N.Kumaresan Dr. G.Saravanallango Mr. S.Senthil Kumar
Total	167.25			