

## SPONSORED PROJECTS

S. No.	Title of the project	Principal Investigator	Research Grant (In Lakhs)	Funding Agency	Year of Sanction	Current Status
1	Realization and Implementation of Wide-Area Disturbance Monitoring and Protection Methodology for Future Grids using PMUs	Dr. M. Jaya Bharata Reddy	31.56	SERB-DST	2019	Ongoing
2	Design implementation and analysis of wireless power transfer and PV system for battery charging of passenger e-Bus	Dr.P.Srinivasa Rao Nayak	32.40	CPRI, GoI	2019	Ongoing
3	Potential Peer to Peer Transactive Energy Markets in Indian Power Distribution Systems	Dr.Vivek Mohan Dr.Kartik Thirumala Dr.Mini Shaji Thomas	26.91	SPARC – MHRD, GoI	2019	Ongoing
4	Young Faculty Research Fellowship Project	Dr.S.Moorthi	14.8	DeiTY	2018	Ongoing
5	Implementation and Analysis Of coupled coils at different Structures with mis alignments for WPT EV battery charging	Dr. P. Srinivasa Rao Nayak	28.46	SERB-DST	2018	Ongoing
6	Development of wireless sensor network for online monitoring & control in a smart micro grid application	Dr.S.Moorthi Dr.P.Raja	20.08	DST	2018	Ongoing

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7	Development of modular multilevel converter for enhancing power quality and PV output power under partial shading conditions in Grid-connected PV system	Dr.G.Saravana Ilango Dr. C.Nagamani	48.47	SERB	2018	Ongoing
8	Investigation on Data-Driven Event Detection using Indian Power Grid's Synchronphasor Data	Dr.M.Jaya Bharata Reddy	19.41	SERB-DST	2018	Ongoing
9	Optimal Mix of Communication Technologies for Demand Response Management in Smart Grid Applications ( Young Research Fellowship)	Dr. Sishaj P Simon	25.0	DeiTY	2017	Ongoing
10	Electronification of ground water control and conveyor system in mines	Dr.G.Saravana Ilango	179.53	Ministry of coal, GoI	2017	ongoing
11	Detection of Partial shading and Fault in a Solar Voltaic Systems ( Young Research Fellowship)	Dr.G.Saravana Ilango	37.0	DeiTY	2017	ongoing

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12	Electrical performance evaluation of thermoelectric generator system in boiler Flue gas Duct	Dr.G.Saravana Ilango	3.45	BHEL	2016	Completed
13	Vehicle parking guidance system using sensors	Dr.S.Sudha	1.0	CeTransE	2016	Completed
14	Design and Development of Solar Photo-Voltaic Powered Cold Storage System	Dr.M.JayaBharata Reddy	105.8	CERI-DST,	2016	Ongoing
15	Young Faculty Research Fellowship Project	Dr.M.P.Selvan	14.8	MeitY, GoI	2016	Ongoing
16	Co-ordination, path planning and control of mobile robots	Dr. V.Sankaranarayanan	11.0	SERB- DST	2015	Completed
17	Design and development of Multi Input of 10 kVA online UPS (Solar + Grid + Battery)	Dr. K.Sundaeswaran Dr.Sishaj P.Simon Dr.P.Srinivasa Rao Nayak	10.65	BHEL	2015	Completed

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18	Design and Implementation Techniques to estimate the Traffic Speed and Density for Urban India	Dr.N.Ammasai Gounden	1.0	CeTRansE	2015	Completed
19	Dynamic Loading of conveyor Drive Heads in Mines & Funding Agency for the Project specimen	Dr.S.Senthil Kumar	63.0	NLC	2015	Completed
20	Power Optimization Controller in Switched Mode Power Supplies Connected with Renewable Energy Sources	Dr.. S.Mageshwari	35.24	MHRD	2014	Ongoing
21	Maximum Power Extraction from Off – shore Wind driven Generators through HVDC Transmission system	Dr. P.Raja	38.56	MHRD	2014	ongoing
22	Study and Implementation of Different Power Saving Techniques for the Efficient Utilization of Air Conditioner by Using Renewable Power Resources	Dr. V.Sankaranarayanan	63.98	MHRD	2014	ongoing

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23	Design, Development and Analysis of bio-inspired control strategies for Stand-alone solar powered LED lighting systems	Dr. P. SrinivasaraoNayak Dr.K.Sundareswaran Dr.Srinivasa Rao Nayak	44.74	MHRD	2014	Ongoing
24	Electrical design and drawing for Indian Naval Academy (Phase-II works) Ezhimala, Kerala	Dr. G.Saravana Ilango	2.64	IC & SR	2014	Completed
25	A Novel Hybrid Energy System For Supplying Isolated Loads With Fpga Based Energy Management Scheme	Dr.N.Kumaresan Dr.M.P.Selvan Dr.S.Moorthi	75.00	NIWE, MNRE, GoI.	2013	Completed
26	Development Of Micro-Grid Controller Integrated With Multiple Types Of Renewable Sources And Loads	Dr.N.Kumaresan Dr.M.P.Selvan Dr. S. Moorthi Dr.N.Ammasai Goundan	15.00	PGCIL, GoI	2013	Completed
27	A pilot project on economic demand response management through online monitoring	Dr. Sishaj P Simon	24.39	SERB- DST	2013	Completed

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28	Maximum Demand Control through Modern Algorithms	Dr. Sishaj P Simon Dr.K.Sundareswaran Dr.Srinivasa Rao Nayak	1.0	Southern Railways	2013	Completed
29	Corporate Sustainable Development Project	Dr. K.Sundareswaran	32	BHEL	2013	Completed
30	A novel hybrid energy system for supplying isolated loads with FPGA based energy management scheme	Dr. N. Kumaresan	73.26	CWET, Chennai	2013	On-going
31	Development of micro-grid controller integrated with multiple types of renewable sources and loads	Dr. N. Kumaresan	14.95	PGCIL	2013	Completed
32	Development of Micro grid Test-Bed for Renewable Energy Management System	Dr. M. Jaya Bharata Reddy	21	DST- GoI	2012	Completed
33	Development of DC-DC converter and Bi-directional converter for SPV Application	Dr. G.Saravana Ilango	19.64	DEITY GoI	2012	Completed

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34	Development of DC-DC converter and Bidirectional converter for SPV applications by NIT, Trichy.	Dr. C.Nagamani	19.64	NaMPET	2012	Completed
35	Power Quality Improvement using Unified Series Shunt Compensator (USSC)	Dr. M.P.Selvan	13.8	DST, GoI	2009	Completed
36	Design and Development of Improved shunt Active Filter with Enhanced signal processing with due consideration for Distorted Utility Conditions	Dr.G.SaravanaIlango	14.5	DST, GoI	2009	completed
37	Design of PLL based Clock Generators for SoC applications	Dr. N.AmmasaiGounden Dr.S.Moorthi	2.00	TEQIP– Joint Research		Completed
38	National Mission on Power Electronics Technology	Dr.S.Senthil Kumar	34.5	Ministry of Communications & Information Technology, C-DAC	2008	Completed

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				Trivandram,		
39	National Mission on Power Electronics Technology (NaMPET)	Dr.G.SaravanaIlango	34.0	Ministry of Communications & Information Technology	2008	Completed
40	Development of infrastructure in Power Electronics Lab	Dr.C.Nagamani Dr. N. Kumaresan	34.0	NaMPET, CDAC, Trivandrum	2008	Completed
41	Development of Power electronics laboratory	Dr.C.Nagamani	34.0	NaMPET, GoI	2008	Completed