



**Indian Institute of Technology Madras**

Office of Alumni and Corporate Relations



**CELEBRATING GENEROSITY**

OF

**Mr. SATISH PAI & Mrs. VANVIMON PAI**

**The Energy Consortium - IIT Madras**

**Mukta Pai Faculty Fellow**

**Institute Day Prize**

**Alumni Endowment Fund**



## MESSAGE FROM DIRECTOR

PROF.  
**KAMAKOTI VEEZHINATHAN**  
DIRECTOR, IITM

IIT Madras, in the 63 glorious years of its journey, has been scaling new heights of success and excellence. This is reflected in many ways including in its exemplary performance for six years in a row, on the National Institute Ranking Framework released by the Ministry of Education, Government of India. Chosen as one of the Institutes of Excellence, IIT Madras has established a number of Research Initiatives in various fields of contemporary relevance showcasing the commitment towards fostering world-class research. In this continuing pursuit of academic and research excellence, we will continue to embrace innovative practices while promoting efficient, and effective governance through AI-driven hyper-automation.

The outpouring of generous support we have received in the past year from well-wishers such as yourself has been humbling. On behalf of the Institute, I offer you our deepest gratitude for keeping IIT Madras strong. I am confident that we will continue to make many positive strides and leaps forward with renewed vigour to achieve the goals that we have set out for us. Together, with your support, we are confident of creating an IIT Madras with a diverse group of faculty and staff pursuing nationally relevant and globally recognized research. If this past year has taught us anything, it's that it takes a dedicated and committed community to keep us moving forward — and far beyond. Thank you!



## MESSAGE FROM DEAN

PROF.  
**MAHESH PANCHAGNULA**  
DEAN, ALUMNI & CORPORATE RELATIONS, IITM

### HEARTFELT GRATITUDE FROM IIT MADRAS.

“Our aim to provide continued solutions to social problems on a global scale is realised through the sustained support of alumnus such as you.

We thank you for your contribution as we present a report of its impact. We hope to receive your help and support for our future endeavours to take IIT Madras to the global stage.”



Dear Mr. Satish Pai and Mrs. Vanvimon Pai,

We had sent you on 17-12-2020 the impact of your giving report for the academic year 2020-2021. We now call this the Celebrating Generosity Report. You and your family have contributed generously for various causes. We are grateful and Celebrate your Generosity through our gesture of sending this report. Some of the causes were projects for which the funds got utilized and the reports were provided in the last year report. The funds you contributed towards **Keep it flowing** for Tapti hostel is still not utilized as we have still not collected the total funds required for the complete renovation work of Tapti hostel. We will send you a report soon after the funds get utilized for the renovation work of Tapti hostel. In this Annual report we have provided below the details of the impact your valuable generosity has created on various stakeholders for the academic year 2021-2022.



## THE ENERGY CONSORTIUM IIT MADRAS

IIT Madras expertise includes carbon capture and storage, gas hydrates, coal and biomass conversion to useful chemicals, renewable energy systems including applications in desalination and cold storage, electrolyser technologies for CO2 conversion and green hydrogen, energy storage technologies beyond lithium, and distributed energy management including for AC and DC microgrids.

The recently launched IIT Madras Energy Consortium, which is part of the Office of Global Engagement, brings them all together as one large effort. The consortium has active participation from more than 50 IIT Madras faculty, with significant technical expertise and demonstrated contributions on the world stage. In addition, there are over 250 post-graduate students (Ph.D. and MS) and about 20-30 post-doctoral fellows working in various domains related to energy research.



The consortium would be a strategic partner to help incubate and groom technology that is in the discovery and feasibility stages and to assist those in the pilot demonstration levels through use case scenario validations and techno-economic studies geared to understand scale-up and commercialization aspects.

The three broad outcomes envisaged by the consortium will be:

- ◆ Stakeholder engagement that is agnostic of whether their view is favourable or averse, and encouraging responsible choices for energy solutions.
- ◆ Methodologies for transparent and clear metrics such as on achieving a reduction in GHG emissions and addressing sustainable development goals overall.
- ◆ Preparing future leaders with diverse perspectives, those who would be capable of navigating the cultural rewiring that comes about from a sustainable energy dominated future.

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### AERIAL VIEW OF IITM RESEARCH PARK



“CHANGE STARTS FROM HOME”

### What will be role of the Consortium?

Consortium will be designed to attract an international collaborative of energy companies from across the spectrum – Oil and Gas, Energy storage, utilities, renewable developers, industrial conglomerates and end use technologies. We have onboarded the following members already - Shell, Baker Hughes, Saipem, Deloitte - and are in conversations with - BPCL, Technip Energies, Sembcorp, FLSmidth, Aditya Birla, Ashok Leyland.

The consortium will provide a portfolio of research and findings to member companies which reduces risk for companies, and also eliminates single points of failure with individual projects. It provides greater exposure for the different centers by bringing in companies who might be specifically interested in one area, but now learn about the research being conducted in other centers.



TO VIEW IN DETAIL ABOUT ENERGY, PROPULSION, RENEWABLES

We had the IITM Energy Summit that happened from Dec 14-16, 2021 [#IIT Madras](#) had launched a Global Energy Consortium to boost their progress towards the transformation to a Low Carbon Future. The summit features prominent key-note speakers from government, industry, and academia.



TO VIEW THE DETAILS OF IITM ENERGY SUMMIT, 2021

It identifies the priorities for research and technology development in collaboration with Industry Partners. With over 50 faculty having significant expertise and contributions on the world stage via technologies and highly cited research publications, the Consortium will work in close collaboration with industry on areas such as carbon capture and storage, gas hydrates, renewable energy systems and beyond lithium energy storage technologies.

[#IITM](#) [#research](#) [#energy](#) [#consortium](#) [#industry](#) [#partners](#) [#technology](#) [#publications](#) [#EnergyConsortium](#)

The call for proposals for the Phase 2 IoE funding is currently out and Energy Consortium faculty at IIT Madras are working as a inter-disciplinary group constituting Engineering, Sciences, Humanities, and Management Sciences, to submit a proposal on developing an Energy Center that focuses on technology, innovation, policy and economics to help develop realistic sustainable energy solutions.

we currently have a call for papers out for the 2022 Energy Summit:



TO VIEW THE DETAILS OF IITM ENERGY SUMMIT, 2022

Please find the following accomplishments of the Energy Consortium in the short period of its existence:

- Inputs on strategic research priorities were collected from about 3 dozen industries during 2022 Q1. The industries included those operating in O&G, renewable energy systems, coal & thermal power plants, power generation & transmission and a few refineries and cement industries.
- Strategic action teams were formed in late March constituting IITM faculty members and have now also been seeded with industry member nominees. The current teams are for following areas - green hydrogen, ammonia value chain, carbon capture, energy modelling for net zero and microgrids. The teams plan to prepare technology roadmaps.
- The Energy Consortium board has five members now and is tasked with governance and operational oversight as well as to help the consortium in the early days of its steep growth phase. In addition to the board the consortium will have a industry advisory board that will comprise a nominated member from each founding member and one from IIT Madras. Also an advisory council is in the works and seven individuals from academic, industry and business background have already accepted joining in. The advisory council will advise the consortium CTO (and faculty coordinator) on upcoming areas of technology and domestic and international policy and business imperatives that are shaping the energy realm.
- Energy Consortium as an approach to 'accelerate technology development and transition towards commercialization' has been pitched to NITI Aayog and Department of Science & Technology. A mechanism has been identified with them for long term alignment to national priorities. NITI Aayog has already joined in as an advisory council member.
- Industry day is planned for Jun 30 and our annual Energy Summit will be on 8 & 9 Dec later this year.

We are very grateful to the generous support and the encouragement therefore from our distinguished alumnus Mr. Satish Pai.



**Dr. NIKHIL S TAMBE**  
CEO - IITM Energy Consortium

## MUKTA PAI FACULTY FELLOW



**Dr. MOHANASANKAR SIVAPRAKASAM**

Director, HTIC & Associate Professor - Department of Electrical Engineering, IIT Madras.

His recent Project at Healthcare Technology Innovation Centre (HTIC),  
Non-contact Physiological Monitoring Technology Platform

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TO VISIT HTIC WEBSITE

## NEONATAL TRANSPORT UNIT



### Executive Summary

Can a human's vital physiological parameters, the cornerstone of patient monitoring, be accurately and reliably measured, without wires between the patient and monitoring device? This is a frontier area in medical technology R&D today. Healthcare Technology Innovation Centre (HTIC) of IIT Madras, the leading med-tech centre in the country, is embarking to build a cutting-edge technology platform for non-contact physiological monitoring for this globally significant med-tech challenge. This platform would be used for advanced research, new technology development, product evaluation & testing, teaching, training, and public dissemination of science and technology in this field.

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TO VISIT DETAILED REPORT

## INSTITUTE DAY PRIZE

**DONOR: Mr. SATISH PAI**

Shri Satish Pai Prize - A silver medal and cash award of Rs.5000/- to the student with the best academic record in 3rd and 4th semesters of B.Tech/Dual Degree programme since 2013 onwards for 10 Years. Let us now see the details of the students who received this prize in 2021 and 2022.

**Criteria:** This prize is instituted in the year 2012. This award consists of a silver medal and cash award of Rs.10000/- to the student with the best academic record in 3rd & 4th semesters of B. Tech / Dual Degree programme.

### Shri SATISH PAI PRIZE, APRIL 2021



**BIPUL GUPTA**

**Roll No.: MM18B017**

B.Tech in Metallurgical & Materials Engineering

#### Awardee Voice:

"Thank you very much for presenting me with this award. This effort from your side has given me an extra push towards working towards my goal. I hope that someday, I could give back something the same way you have done now.

I once again thank you I once again thank you for giving me a push to keep moving forward." for giving me a push to keep moving forward."

Thank you for your most generous contribution! We are so fortunate to have caught the attention of alumni like you with large warm hearts. We greatly appreciate your willingness to be a helping hand.

### Shri SATISH PAI PRIZE, APRIL 2022



**NAGAPPAN N**

**Roll No.: MM19B040**

Metallurgical & Materials Engineering with M.Tech in Data Science.

#### Awardee Voice:

"I sincerely thank you for this award. This award makes me feel very happy and further encourages me to do well in the coming semesters.

This recognition has boosted my confidence as well. Thank you once again".



# THE GENERAL ALUMNI ENDOWMENT FUND

The purpose of this endowment is to use the annual interest accruals to fund initiatives that will have a critical transformational impact on the Institute and keep it as a world-class institution of technological advancement. Every year, the Director of the Institute will issue instructions on disbursements to be made. From the fund, this will be equal to or less than the amount that has additionally accrued to the fund as returns from its investments. The capital of the fund and any additional money contributed during the year will not be disbursed.

Five reunion batches along with many other alumni have contributed towards General Alumni Endowment Fund. 1985 batch silver reunion is one of them and Mr. Satish Pai contributed the highest out of all the batch mates of 1985 batch. We are grateful to your altruistic contribution and have shared the impact this General Alumni Endowment Fund have created.

## The interest accrued from this General Alumni Endowment is utilised for

1. Travel Grant to students
2. Video Productions and virtual classroom meetings

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TO VIEW THE DETAILED REPORT



## MEMORIES TO CHERISH



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TO VIEW IITM ANNUAL REPORT 1985

# WE ARE GRATEFUL TO YOU!

Mr. SATISH PAI & Mrs. VANVIMON PAI



Thank you for your sustained generosity to IIT Madras over the years. Contributors such as yourself enable our students and Professors to dream big and work towards a better and brighter future. We hope you are proud of your alma mater and how it has remained steadfastly committed to academic and research excellence since your time here. You and your family have been instrumental in facilitating this significant growth. Our efforts to nurture the culture of academic excellence that is the hallmark of IIT Madras - quality education, cutting-edge research, and unfettered creativity shall continue. We are privileged and humbled to have you and your family walking with us along this trail. We wish you and your family the best always in all walks of life!



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