

PRABANDH



Sustainable Gujarat: PM Strategies for Green Industries



Project
Management
Institute.
Gujarat, India

Solar & Wind Projects, Gujarat

Photo courtesy : gpcl.gujarat.gov.in

From the Editor's Desk



Mr. Mehul Patel

Vice President - Marketing & Communication, PMI Gujarat, India Chapter

Dear Readers,

Gujarat has always been a frontrunner in India's growth story. Today, it stands at the heart of the country's green revolution, driving progress in renewable energy, sustainable urban development, and ESG adoption.

With landmark initiatives such as India's first **Green Hydrogen** Policy and the country's largest share of solar and wind capacity, Gujarat is proving that sustainability and scale can go hand in hand.

From mega projects like the **Dholera Solar Park** and **Khavda Renewable Energy Park** to the **GIFT City smart urban model**, the state is showcasing how innovative policies, public-private collaboration, and cutting-edge technology can reshape industries. These initiatives not only highlight Gujarat's leadership but also provide valuable lessons for project managers navigating the challenges of green project execution, from land acquisition and logistics to stakeholder alignment and regulatory compliance.

As we reflect on Gujarat's achievements, one thing is clear: the state is offering a blueprint for the future of project management in India. For professionals, the call is to embrace new skills, sustainability frameworks, and digital tools to keep pace with this transformation. The future is green and Gujarat is showing the way.

Warm regards,

Mehul Patel

Editor, **PRABANDH Newsletter**

PMI Gujarat, India Chapter

President's Message



Mr. Prerak Shah

President, PMI Gujarat India Chapter

Greetings to you all, on behalf of the PMI Gujarat Chapter (PMIGJC) Board of Directors and team of amazing volunteers.

Gujarat always has been in the forefront of leadership—from our nation's freedom movement and industrial growth to today's landscape, when, under the able leadership of our PM Modi ji, India is expanding her wings on the path of - **वसुधैव कुटुम्बकम्**, a philosophy that believes in 'the world as one family' and emphasises on collective well-being of all.

As a responsible community of this great state, it is our duty to focus on areas that matter the most—not only in terms of current affairs or short-term benefits, but more so on subjects that can affect the existence of humanity and can impact our future generations. Sustainability is one of those subjects, and that is the reason why PMIGJC leadership has decided to dedicate its **August 2025** edition of "**Prabandh**"—our biannual newsletter on 'Sustainable Gujarat.'

Through this note, I would like to convey two important messages that, as project managers, we all shall consider and embrace it with a sense of responsibility and ownership.

First being – adopting the ways of life that ensure **harmony** with **Mother Nature** and protect invaluable resources that Mother Earth has granted us freely. While those have come free, it is important that we understand that those are not ours to spend at our free will. Instead of blindly following materialistic ways that assume abundance and indirectly promote waste, we shall look back and rely upon the lifestyle that our elders and culture have always preached '**consume as much as you must, but also preserve as much as you can!**'

President's Message

Second is expanding adoption of these practices to all areas of life and among all lives that we touch. As project managers, [leveraging all types of resources in an optimized manner to deliver](#) a result is natural to us, and we can be a binding force for this cause too.

As a thriving project management community of Gujarat, we have the opportunity to lead the way once again, and we must. There are things we can do individually as well as collectively. As you would read through case studies included in this edition of 'Prabandh,' Gujarat already has been at the forefront of the 'green' movement—but that is not enough. It is important that preservation becomes second nature and is adopted by all as a common practice, and that is where each of us could play a pivotal role.

As a chapter, [we are working on defining a framework for several sustainability initiatives](#) that each of us can lead on our respective fronts, regardless of where we are, and can make a big difference with minimal and effective investment of time and energy on an individual level. We expect to start rolling those out from September 2025. I sincerely request and hope that you all will participate enthusiastically and experience the magic of multiplication that such can create—because [#TogetherWeCan #MakeADifference](#).

Once again, I welcome you all to enjoy the amazing reading that our volunteers have put together in this edition of 'Prabandh,' and I look forward to working with each of you as we continue our chapter's growth story and state's green revolution in days ahead.

Warm Regards,

Prerak Shah

President - PMI Gujarat, India Chapter

Board for April 2024 - March 2026



Mr. Prerak Shah
President, PMI Gujarat,
India Chapter



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Vice President -
Administration



Mr. Darshil Mistry
Vice President -
Finance



Mr. Bharat Thakarar
Vice President -
Membership



Mr. Mahesh Panchal
Vice President -
Training &
Development



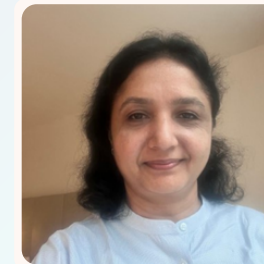
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Vice President -
Programs



Mr. Rajit Shah
Vice President -
Corporate Relations



Mr. Sandip Karia
Vice President -
Academics Affiliation



Ms. Hiral (Vyas) Dave
Vice President -
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Development



Mr. Mehul Patel
Vice President -
Marketing &
Communication



Mr. Suketu Modi
Vice President -
Technology

Global Representation

PMI Global Summit Series APAC 2025: Manila, Philippines



The PMI Global Summit Series APAC 2025, held in Manila, Philippines on June 25-26, was a signature regional event, gathering project professionals from across Asia-Pacific. Our chapter's participation in this event reflects our commitment to staying at the forefront of project management excellence.

The summit offered an unforgettable experience packed with exclusive learning opportunities to engage with industry leaders & gain expert insight as well as dive into cutting-edge industry trends, practical workshops and opportunity to connect with project professionals from around the world.

Key Highlights from APSA Global Summit:

- PMI presented a broader vision for the PM profession: **M.O.R.E.**, emphasizing that A project is successful when: Value delivered is more than Effort + Expense.
- Opening Keynote session on The YOUNIQUE Mgmt. Styles: Manage People the way they want to be managed by Mr. Jayson Lo.
- AI-Driven Project Management: What Every Project Manager Needs to Know by Philip Choi.
- Unveiling the PMO Myth: The Real Power Behind Strategy Execution by Mr. Vikki Kapoor
- Revolutionizing Project Management With AI: Harnessing Innovation and Smart Collaboration for Success by Ms. Geetha Gopal
- Cross-Functional Collaboration Masterclass: Making Things Happen Without Having Full Authority by Mr. Vicario Reinaldo

Global Representation

Chapter Board at PMI AP/SA Leadership Institute Meeting 2025



Our PMI-GJC chapter board is thrilled to share a brief update from the **PMI AP/SA Leadership Institute Meeting 2025**, held from June 26-29 in Manila, Philippines. Our board members attended this significant event to align with PMI's global strategy and gain crucial insights to enhance our chapter operations and member services here in Gujarat, India.

The **Leadership Institute Meeting (LIM)** serves as a vital platform for chapter leaders to "Aspire, Empower, and Elevate" their leadership skills.

Our delegates immersed themselves in regional priorities, exchanged best practices, and collaborated with PMI staff and Regional Mentor to bring back actionable knowledge. This year, nearly our entire PMIGJC Board participated, making it our strongest presence at any LIM to date. PMI Gujarat chapter was felicitated for achieving 5 years Chapter Milestone.

Workshops and breakout sessions explored vital themes for our chapter's growth, such as membership engagement, volunteer leadership, governance, digital transformation, and partnerships with industry, academia, and nonprofits. **Our VP Corporate Relations, Mr. Rajit Shah, also presented "The 3M Conference Playbook."** The PMI AP/SA Leadership Institute Meeting proved inspiring and productive, strengthening our chapter's operational excellence and ensuring greater value for every member's PMI journey in Gujarat.

PMI Gujarat Conference 2024 Glimpses

NEXTGEN Project Management



PMI Gujarat Chapter hosted its **Second Annual Conference on “NEXTGEN Project Management”** at Nirma University in **December 2024**. Shri M. Thennarasan, IAS, Municipal Commissioner of Ahmedabad, inaugurated the event, urging timely, high-quality delivery with the slogan “Project delayed is Project denied.” The conference featured insights from Mr. Amit Goyal (PMI South Asia), keynote by Mr. Samir Yajnik (Electra EV), and expert sessions by Air Commodore Rajendra Gaekwad and Mr. Aditya Kumar. Engaging panels and case studies explored themes like cybersecurity, generative AI, and responsible AI.



MoUs with GESIA and Nirma University marked a milestone in the chapter’s vision of evangelising project management across Gujarat. With 350+ participants, the event underscored growing industry commitment to next-gen practices. PMI Gujarat thanks all speakers, attendees, volunteers, and partners for making the conference a resounding success.

PMI Gujarat Chapter Highlights

Advance Excel Training for 2 days (14 PDUs) June 2025

Advanced Excel Training Certification is a 2-day program for those who are in managerial positions or leadership positions or who want to unleash the power of MS Excel. During this program, you will learn to perform various complex functions like Pivot Tables, Relative and Fixed Referencing, etc., and introduces you to time-saving techniques.

- No of Participants - 7
- Total PDUs allocated - 98

Microsoft® EXCEL Advance Training
Be master of MS Excel skills
7-8 June 2025

LIMITED SEAT
₹ 2000/- For Members
₹ 2500/- For Non Members

Key Features

- Learn how to use various functions of MS Excel
- Practical on MS Excel
- Real world example for better understanding
- Earn 14 PDUs

For registration: <https://bit.ly/AdvanceExcelJune2025>

For any queries contact:
Mr. Anil Shahu - (M) +91 9106075426 / 9898083840
Email: vp.training@pmigujaratchapter.org

Bank Details:
A/C Name: PROJECT MANAGEMENT INSTITUTE GUJARAT CHAPTER TRUST
Bank: ICICI Bank Ltd. IFSC: ICIC0002313 Branch: Prematirth
Ac No: 231301001043

Upcoming Training Session

Jira Admin & User Training for 4 days in Sep 2025

Atlassian® JIRA ADMINISTRATOR & USER TRAINING
Be Master of Jira Admin & User
13,14,20,21 September
04 Full Day Workshop

Key Features

- Jira Boards, Issue Management, Filter Creations
- Sprint and Agile Planning
- User Roles & Advance Workflows, Dashboard & Reporting
- Working with Apps & 3rd Party App Integrations
- Jira Administrator
- Atlassian Intelligence

or registration: <https://bit.ly/jira-aug2025>

For any queries contact:
Mr. Anil Shahu - 9106075426 | Mr. Pritesh Patel - 9427042871
Email: vp.training@pmigujaratchapter.org

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Master Jira in Just 4 Days – Become a Pro Administrator & User!

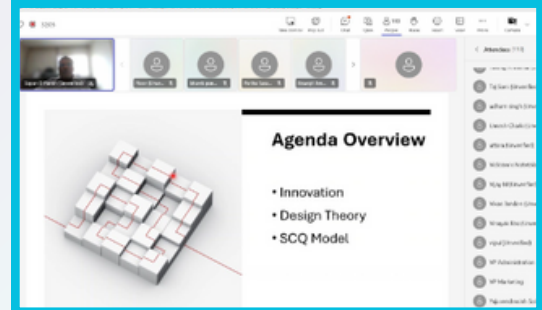
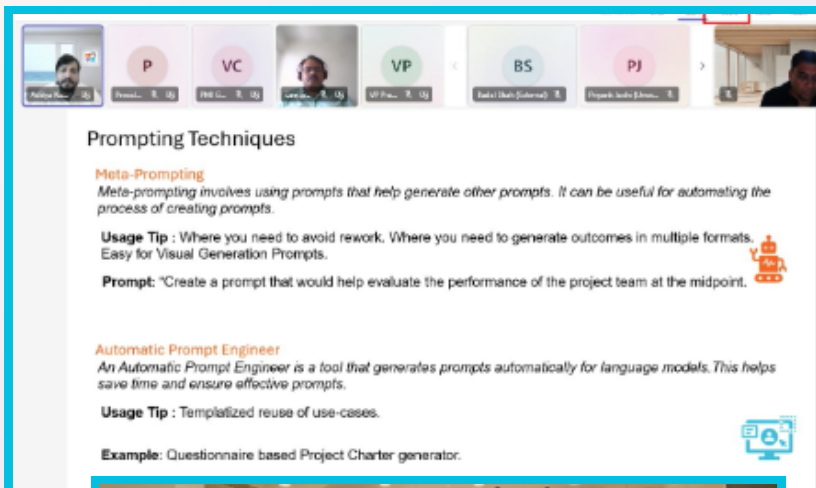
We're excited to announce our Virtual Training on "Jira Administrator & User Training". It is designed to empower you with both the administrative know-how and practical user skills to manage projects efficiently.

What You'll Learn:

- Jira Boards, Issue Management, Filter Creations
- Sprint and Agile Planning
- User Roles & Advance Workflows, Dashboard & Reporting
- Working with Apps & 3rd Party App Integrations
- Jira Administrator
- Atlassian Intelligence

PMI Gujarat Chapter Highlights

PM Forums organised till July 2025



From Risk to Resilience: Intergrating Cybersecurity Into Project Management

13 April 2025

Resilient Leadership Dynamics: Blending Assertiveness with Emotional Intelligence

8 June 2025

Prompt Engineering Masterclass for Project Management Professionals

11 May 2025

Reimagining the PMO: Strategic Innovation Hub Using Design Thinking

14 July 2025

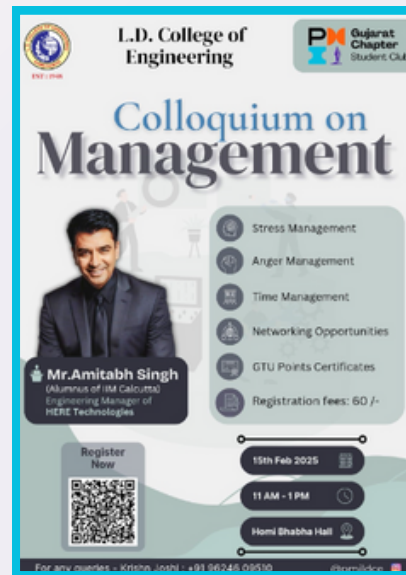
PMI Gujarat Chapter Highlights

Academics Collaboration & Workshops

Session on Stress and Anger Management

50+ students attended

Collaboration with LD College of Engineering



Principles and Practices of Risk Management Workshop

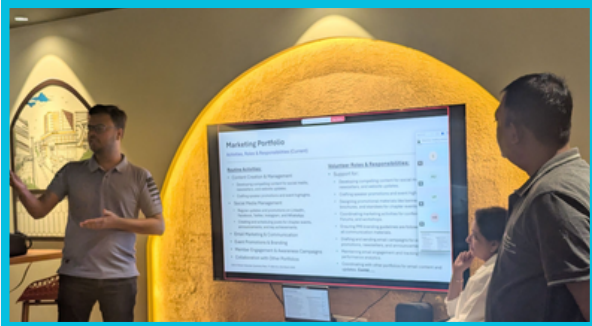
40+ students attended

Collaboration with Nirma University

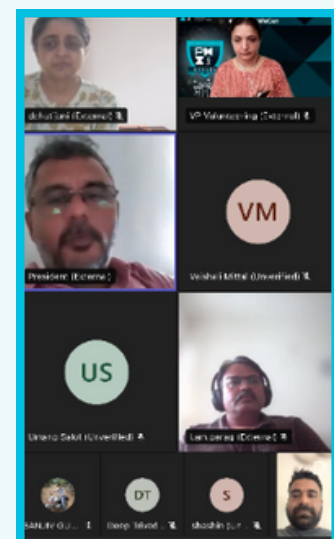
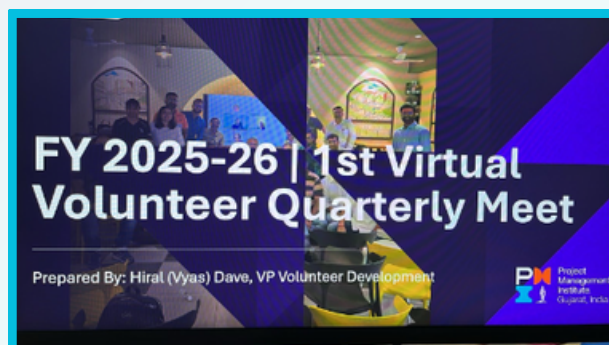
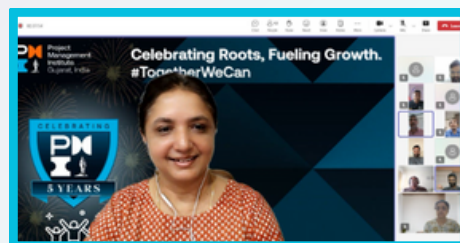
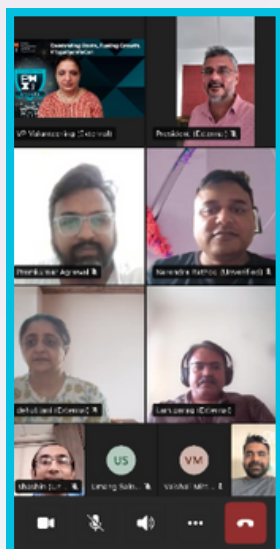


■ Making a Difference Through Volunteering

In-person volunteer meet with BoDs conducted on **23rd March 2025** - Agenda included address by President on Annual Plan and Key objectives for 2025-26, followed by portfolio wise presentation on key initiatives, activities.



Virtual volunteer meet on **19 July 2025**, update by VP Volunteer Development about PMI AP/SA LIM, upcoming PM SAC and introduction of new volunteers. Followed by portfolio wise quarterly update and alignment to the plan shared on 23rd March. Address by President about #MakeADifference CSR initiative and revisiting points discussed on 1st May - SIG, PM Prep guidance group, members involvement in Student Club activities, about possibility to have new center and member connect workflow on Neome tool.





5 Years of PMI Gujarat Chapter

A Journey of Growth and Gratitude



PMI Gujarat Chapter proudly marked the completion of five remarkable years since its inception. The 5-Year Foundation Day was a truly special occasion, made even more memorable by the presence of over 80 members who joined us in celebrating this milestone.

On this occasion, we extend our heartfelt gratitude to our President, Mr. Prerak Shah, for his inspiring reflections on the Chapter's journey; from its modest beginnings to its emergence as a thriving hub for project management professionals across Gujarat.

We take this opportunity to sincerely thank all Board of Directors, volunteers, and members whose dedication, passion, and unwavering support have been instrumental in shaping the Chapter's success over the past five years. Their collective contributions have not only advanced our community but also strengthened the culture of collaboration, knowledge-sharing, and professional excellence that defines PMI Gujarat Chapter.

As we look ahead, we remain committed to building on this strong foundation, creating more opportunities for growth, and continuing our shared journey of empowering the project management fraternity in Gujarat.





New Initiatives by PMI Gujarat Chapter

Enhanced Member Engagement through New Ideas & Initiatives

In line with President's townhall held on our fifth Foundation Day, and keeping up with our promise, team of volunteers have already started working closely with relevant board members on several of the initiatives announced on our **Foundation Day** call:

Initiate #MakeADifference project:

- Team of volunteers, led by Mr Deep Trivedi, is working closely with President's office and has already worked out a framework that has been well received and accepted by the board.
- Further, out of the 5 areas [aligned with UN's Social Development Goals (SDG)] that team had explored and presented to board for further action/decision, board has collectively decided and guided team to focus on 'Climate Change & Sustainability [UN SDG #11 and #13]' for the first.
- Our **#MaD [Make a Difference]** team has prepared the detailed proposition for the first project to be taken under this, which is under review with FAP [Finance, Administration & President – to ensure vision alignment as well as operational & financial feasibility] and expected to roll it out later this month [September 2025]

Launching Quarterly Townhall:

- Under leadership of Mr. Brijesh Shah, our VP of Programs portfolio, team will be working on the roadmap and template to ensure smooth and uninterrupted rollout of this initiative from Q3 of FY2526.

PMP Preparation Guidance Group:

- Our VP of Academics, Mr Sandip Karia, is leading this initiative – meant to guide and equip our members as well as other PMP prospects for PMP CE readiness.
- Draft structure and SoP are in place and being further reviewed & revised by core team to ascertain absolute clarity and expect to roll it out this month [September 2025].

Starting at least 2 SIG:

- As per the poll ran by our corporate portfolio, led by Mr Rajit Shah [VP of Corporate Relations], corporate team has identified Construction, Manufacturing , Services domains and among them as top three contenders to start Special Interest Group,
- Considering various factors and based on board's inputs, team has decided to start with Construction_SIG first, followed by Manufacturing & Services_SIG, later in the year.
- Corporate team is working on SoP to formulate SiG and SIG operational framework and likely to have draft ready for FAP review by end of September, with a goal to launch our first #SIG in Q3 of FY2526.



Upcoming Annual Conferences in December

Highly Anticipated Conference is Almost Here!



PMI Gujarat Chapter is delighted to announce that its Annual Conference 2025 will be held in December. This year's event carries special significance, as it will be a grand celebration of our 5 years of journey as a Chapter. Over the years, the Annual Conference has established itself as the flagship forum for project professionals, industry leaders, and thought experts to come together, exchange ideas, and shape the future of project management in Gujarat and beyond.

While the theme for 2025 is yet to be finalised, the Conference will continue to uphold its tradition of addressing the most relevant topics of the profession.

Attendees can look forward to:

- Insightful keynote addresses
- Interactive workshops, and panel discussions
- Platform for fostering professional connections
- Celebrating 5 year achievements

As one of the most anticipated events of the year, the Annual Conference 2025 will be more than just a gathering; it will be a landmark occasion reflecting on our Chapter's growth and the contributions of our members and volunteers. We eagerly look forward to welcoming project professionals, partners, and stakeholders to join us in this milestone celebration and be part of a memorable experience that will inspire the road ahead.

Testimonials: PMIGJC Member from Jan 2020



Vipul Panchal

Volunteer, T&D Portfolio

OCP Supply Chain D&P Lead, Schneider
Electric

I'm Vipul Panchal, currently working as OCP Supply Chain Design and Planning Lead at Schneider Electric, Bangalore. With expertise in designing end-to-end supply chain flows, I've had the opportunity to work on several global strategic initiatives, ensuring efficiency and operational excellence.

My association with PMI Gujarat Chapter since its inception has been a source of pride and growth. The support I received during my PMP journey especially when I faced challenges like rescheduling exams and resolving a false charge was invaluable. The chapter members stood by me, guiding and encouraging me until I successfully earned my certification.

Volunteering with the chapter has been a rewarding experience. From smooth onboarding to active involvement in Training & Development, I've contributed to programs such as PMP workshops, Excel, and JIRA training. Leading the first JIRA training end-to-end was particularly memorable, giving me hands-on experience in coordination and stakeholder engagement.

Even while based in Bangalore, I've always felt connected to the chapter thanks to its active members, regular updates, and inclusive culture. The Gujarat Chapter is more than a professional network—it is a family that supports, guides, and empowers its volunteers, making the journey both fulfilling and inspiring.

Testimonials: Voices of Inspiration



Narendrasinh Rathod

Volunteer – Academics Portfolio

AVP Design & Development – Ecubix

I joined PMI Gujarat Chapter as a volunteer on 16th September 2024, and as I look back at this year-long journey, I can proudly say it has been a truly enriching and fulfilling experience.

Being part of the Academics Portfolio under the leadership of VP Sandip Karia has given me the opportunity to contribute towards bridging the gap between academia and the professional world of project management. Over the past year, I have been actively involved in various student engagement initiatives — from supporting student club activities at Nirma University, PMI awareness programs, and leadership development interactions. Each activity has not only allowed me to share my knowledge but also learn from students, peers, and fellow volunteers.

I would also like to extend my heartfelt gratitude to Hiral (Vyas) Dave, VP – Volunteer Development, for her constant guidance, encouragement, and support throughout my volunteering journey. Her mentorship has been instrumental in helping me navigate the processes and actively contribute to the chapter's initiatives.

Volunteering with PMI Gujarat Chapter has been more than just giving back to the community — it has been about building meaningful relationships, enhancing my leadership and collaboration skills, and being part of a passionate network of professionals committed to making a difference.

As I complete my first year, I look forward to continuing this journey, contributing to impactful initiatives, and further strengthening the connection between PMI and the academic community.

Testimonials: Voices of Inspiration



Malav Shukla

Volunteer - Finance Portfolio

Director - Triune Consultants Pvt Ltd

Being a member of the PMI Gujarat Chapter for the past three years has been a truly enriching journey. The chapter has given me a vibrant platform to connect with passionate project management professionals and continuously upgrade my skills. As a volunteer in the Finance Portfolio,

I have gained valuable exposure to governance, budgeting, and collaborative decision-making. Participating in the PMI Gujarat Chapter Conference 2024 was a highlight—offering insightful sessions, networking opportunities, and global perspectives on project management. The chapter stands out for its commitment to knowledge sharing, leadership development, and fostering a strong professional community. I am proud to be associated with such a dynamic and impactful organization.



Noor Ahmed

Volunteer - Programs Portfolio

PMO Executive

I truly love volunteering with PMIGJC, it's an engaging and rewarding experience. Being part of the Programs Portfolio has been a perfect fit, with a full year of events that offer immense learning opportunities. From insightful PM Forum sessions to interactions with seasoned professionals, every moment has enriched my understanding of project management.

Through the learnings of my experience with this volunteering program I can certainly say and urge those who haven't become a PMIGJC member to not have any need to hesitate. When the leadership embodies PMI principles so naturally, it inevitably trickles down and spreads to the entire culture of PMIGJC and this can be witnessed almost immediately.

I am grateful to have been able to have this opportunity and have it at a time when the current leadership is in effect. Cannot wait to keep carrying forward the spirit of PMI volunteering with PMIGJC and work with these professionals and to see more growth of this chapter and to see the spread of PMI principles.

Knowledge Corner - Case Study

Solar is new age cash crop

Distributed Solar Power Project with Agriculture

How we completed one of the most challenging urban projects India has seen
– on time

By - Mr. Kishan Ghataliya, PMI ID: 11160373

Introduction:

- Global level, all industries have now decided to move ahead in installation of Green energy sources considering various environmental impacts like Global warming. There are various green energy sources like solar, wind, biogas etc.
- Solar Projects require a large area of land as the efficiency of the solar panel is in the range of 15-20% only (3-4 Acres of land for 1 MW capacity). India is targeting energy security with the help of solar energy. However, there is a challenge for the availability of waste land for installation of solar project which will have consumption source near to the generation to have minimum Transmission loss.
- I was part of the team for the implementation of innovative solutions for dual use of land i.e. for Energy Generation and crops. I call it “Solar is new age cash crop”
- In Agri Based solar project, Solar PV panels were arranged in a specific manner throughout the plot to enable farmers to cultivate the seasonal crops in an effective manner between solar panel arrays and below solar panel array, and also care has been taken so that sufficient sun light is available for photosynthesis process of the crop, thereby successfully achieved green energy (solar power) harvesting with seasonal crop cultivation.

Challenges Faced:

- Being an engineer who develops the solar plant, I do not have any idea how much sunlight is required for each crop
- Each region has different types of land and different environments so such a solution may not be applicable to the whole state
- Connection directly to 11kV grid requires special protection system
- Water availability for cleaning of PV module needs to be arranged over and above irrigation of crops.

Knowledge Corner - Case Study

Solution Implemented:

- Discussed with local farmers and took their inputs at design stage and strategy finalization and made them part of stakeholders.
- Two projects were developed at different locations, having different types of land
- Distributed Solar Power with Agriculture is unique scientific concept of producing green energy with dual use of precious resources like land and reuse of water consumed in cleaning of PV modules for irrigation of crops, minimizing energy losses in transmission.
- This concept also eliminates cutting trees / plants which otherwise may be necessary for setting up conventional Solar PV Projects.
- Special Solar PV Module Structure design based on shadow analysis of prototype structure / computer simulation to facilitate easy movement of Tractor under Solar Panels.
- The main purpose of this pilot project is to study agriculture yield below solar panels and between two rows of the panels.
- Connected directly to rural 11KV JGY feeder resulted in reduction of T&D losses & capital cost for power evacuation.
- 3 variants of structure design to facilitate crop experiments under different exposure to sunlight.
- Design of single water pumping and distribution network for Panel cleaning and drip irrigation to reduce cost.
- Safety features in design for isolation with grid. Auto isolation and auto synchronization.



Knowledge Corner - Case Study

Result:

- Distributed solar power with Agriculture can be one of the most sustainable schemes for generating clean/green energy for climate change program without any carbon footprint.
- Dual use of land (Waste Land/Gauchar land/Agriculture land) by demonstrating experiments of Agriculture activities in the Solar PV Plant. Small pieces of waste lands/Gauchar land at various locations can be utilized for productive use
- Improve reliability of 11 KV systems.
- Help in achieving Renewable Power Obligation (RPO) of DISCOMs.
- Alternative source of income to farmers/ Village local body. Act as a Risk mitigation tool- against crop failure in a Draught period.
- Water conservation & Recycle through Reuse of Solar PV Cleaning Water for irrigation. Design of single water pumping and distribution network for Panel cleaning and drip irrigation to reduce cost.
- Generation of Electricity is very near to the load center, thereby reduction in transmission loss, which is around 4%.



Knowledge Corner - Case Study

Achieving 100 % SKU Traceability Across a National Supply Chain in 18 Months

By - Mr. Narendrasinh Rathod, PMI ID: 6193095

Introduction:

In mid-2023 a diversified manufacturing group kicked off an enterprise-wide Track-and-Trace transformation aimed at stamping out counterfeits and unlocking real-time inventory intelligence. What began as a single-plant pilot has grown into a roll-out covering 4 company-owned production plants, 14 repackers, 3 cap vendors and 300+ downstream distribution facilities. Phase 1 brought 56 high-speed lines online; full programme scope will reach ~120 packaging lines by Phase 3. A core team of IT, Operations, Quality and external vendors rallied behind three strategic objectives:

- Serialise every SKU and maintain end-to-end parent/child genealogy.
- Provide live stock visibility at every node—from line conveyor to retail shelf.
- Enable rapid, data-driven recall and anti-counterfeit action while improving customer loyalty engagement.

Challenges Faced:

- Four-QR parent/child hierarchy (wad ► seal ► cap ► bottle) introduced complex aggregation logic and elevated error risk on legacy lines.
- Brown-field automation landscape meant integrating dissimilar PLCs, scanners and printers without scheduled downtime slip.
- Multi-vendor ecosystem—cap manufacturers, label printers, repackers—demanded airtight governance and SLA alignment.
- Regulatory requirement for zero-downtime cut-over plus long-term retention of 10 years' worth of scan data.
- Change-management hurdle: >300 shop-floor and warehouse users new to handheld-scanner SOPs

Solution Implemented

Hybrid Delivery Model

- Stage-gate hardware commissioning synced with 3-week Agile sprints for software; each sprint ended in a live demo on line cameras.
- Three-tier governance: Executive Steering (monthly), Performance Management (bi-weekly), Service Delivery (weekly).

Knowledge Corner - Case Study

Quality, Security & Compliance

- VAPT + Code Review scope: 56 dynamic pages, MASVS Level3 mobile compliance, OWASP Top-10 mitigated before go-live.
- Label quality gate embedded in Day-1 scope—600 dpi print verification and camera OCR comparison at source.

Business Process Innovation

- FIFO/LIFO-aware dispatch scanning; automatic Advance Shipment Notification (ASN) e-mails on truck seal.
- Loyalty module lets retailers and consumers earn & burn points via QR scans, boosting channel engagement.

Results

Metric	Baseline	Post-Go-Live	Δ
SKU Traceability	0%	100%	—
Unreadable Labels	~5%	<1%	↓ 80%
Recall Simulation Time	16h	<11h	↓ 30%
Counterfeit-Detection Accuracy	74%	96%	↑ 22pp
Sprint CPI / SPI	—	1.03 / 0.97	On Budget / Slightly Behind

Sustainability & Green Impact

Beyond compliance and counterfeit deterrence, the program delivered tangible environmental benefits. Camera-verified, 600 dpi printing and aggregation logic cut reprints and product write-offs, while targeted tracebacks reduced reverse-logistics miles during quality events. Accurate ASN-driven planning improved load utilization, and paperless workflows (e-invoicing, e-PoD) removed thousands of printed pages each month. On the IT side, edge processing and server consolidation trimmed energy use without sacrificing resilience. These outcomes map directly to Scope-3 reductions (transport, end-of-life) and support ISO-aligned continuous improvement—making the solution both operationally sound and environmentally responsible.

Green KPI Snapshot:

- Label/media waste avoided: ~60 kg/month
- (First-pass yield improved from 95.0% → 99.5% on ~2.0 M labels/month at ~1.2 g each)
- Reverse-logistics travel avoided: ~3,500 km per major event
- (Targeted recalls reduced affected nodes by ~70%)
- Paper eliminated: ~18,000 pages/month (~85–90 kg of A4)
- IT energy saved: ~720 kWh/month
- (Consolidating 10 → 6 servers at ~250 W average load, pre-PUE)

Knowledge Corner - Case Study

Installation of 10 MW Solar Power Plant at Charanka, Gujarat

Technology: Ground mounted Solar PV power system, GSFC Plant

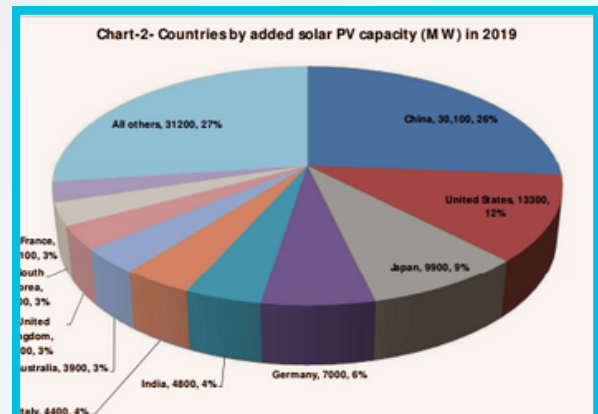
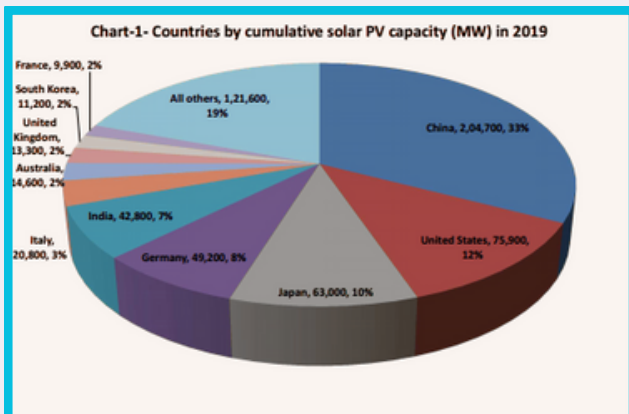
By - Mr. Mahesh Panchal, PMI ID: 4561571

Description of Energy Conservation Measure:

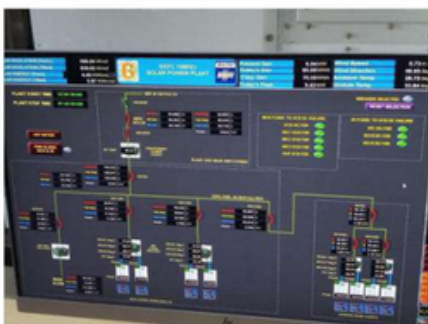
Renewable energy is obtained from resources that are essentially inexhaustible. Examples of renewable resources include wind power, solar power, geothermal energy, tidal power and hydroelectric power.

Due to increase in cost of fossil fuel and awareness about harmful effect on account of usage of fossil fuel in terms of Global warming, generation of power through installation of solar panels has attracted attention since last one decade, in India. The most important feature of renewable energy is that it can be utilized without the release of harmful pollutants.

As per the data up to the year 2019, India is ranked 5th at world level with 42800 MW power generation capacity already installed and ranked 5th with 4800 MW power generation capacity installed in the year 2019. Please refer Chart-1 & 2.



Control panel at 10 MW Solar power plant



Solar panel installation at Charanka



Total Investment: Rs. 5300 lacs

Year of Completion: 2019-20

Power Generation: Rs. 1355.46 lacs /Yr.

Cost of Power: Rs/kWh: 7.25

Payback Period: 3.9 years

Knowledge Corner - Case Study

As per the data published upto the mid of year 2019-20, Gujarat is 6th no. of state in India with power generation of 2410 MW whereas Karnataka is 1st with 7576 MW. Please refer Chart-3. According to The National Institute of Solar Energy in India, country's solar power potential is about 750 GW. It is considered that 3% wasteland is available for development of solar power projects in each state of India.

According to the estimates, RJ and J&K have the highest solar power potential. RJ with its healthy resource of solar radiation and availability of vast wasteland in the form of the Thar Desert, has a potential of ~142 GW. J&K receives the highest amount of solar radiation in India, and has a significantly large area of wasteland (inclusive of PoK) in Ladakh. The state has potential of ~111 GW. MP and MH both have >60 GW of solar power potential being largest states. Gujarat has potential of ~36 GW. India's current solar power installed capacity is around 3 GW, or less than 0.5% of the estimated potential.

To mitigate Renewable Power obligation (RPO)

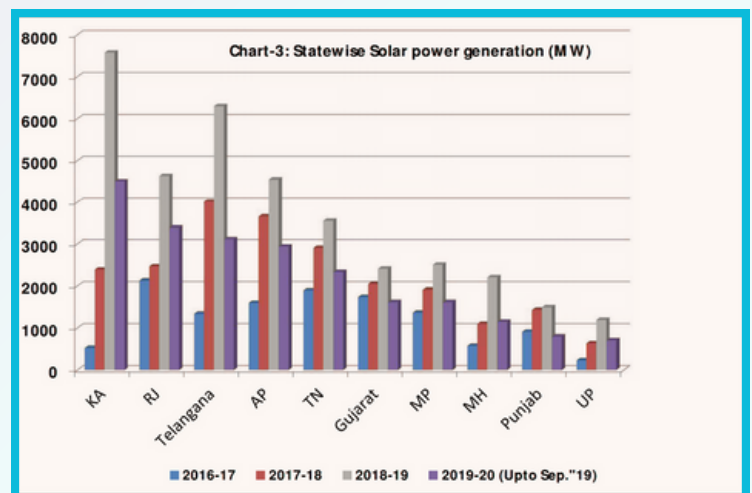
A statutory requirement to produce definite part of power of total power consumption of the complex, through use of renewable energy, which if not fulfilled, penalty will be imposed, GSFC has installed 10 MW ground mounted Solar power plant at Charanka, Dist. Patan.

Subject project is successfully commissioned and has generated

- 18696116 kWh/year, which is about 91% of guaranteed export value of 20,550,000 kWh/year.
- Capacity Utilization Factor (CUF) is 21.3% against design value of the same as 23.4%.

Less power generation was due to various factors like

- Plant maintenance activity started since Jan 2020, after Plant acceptance
- Prolonged monsoon season in 2019-20
- Flood in July-August 2020



Knowledge Corner - Case Study

Otherwise plant performance is mitigating requirement and one of the best operating plant among other solar power plants at Solar park, Charanka. Generated solar power is wheeled and to that extent requirement of importing power has reduced. It has resulted into revenue generation of about Rs. 1355.46 lacs/year. Cost of project is Rs.5300 lacs and worked out simple payback period is 3.9 years.

Table-1- Solar PV capacity by country and territory (MW) and share of total electricity consumption:

Country or territory	2015[14]		2016[7]		2017[15]		2018[16]		2019[17]		Share of total consumption'
	Added	Total	Added	Total	Added	Total	Added	Total	Added	Total	
China	15,150	43,530	34,540	78,070	53,000	1,31,000	45,000	1,75,018	30,100	2,04,700	3.9%(2019)[18]
European Union	7,230	94,570		1,01,433		1,07,150	8,300	1,15,234	16,000	1,31,700	4.9%(2019)[18]
United States	7,300	25,620	14,730	40,300	10,600	51,000	10,600	62,200	13,300	75,900	2.8%(2019)[18]
Japan	11,000	34,410	8,600	42,750	7,000	49,000	6,500	55,500	7,000	63,000	7.6%(2019)[18]
Germany	1,450	39,700	1,520	41,220	1,800	42,000	3,000	45,930	3,900	49,200	8.6%(2019)[18]
India	2,000	5,050	3,970	9,010	9,100	18,300	10,800	26,869	9,900	42,800	7.5%(2019)[18]
Italy	300	18,920	373	19,279	409	19,700		20,120	600	20,800	7.5%(2019)[18]
Australia	935	5,070	839	5,900	1,250	7,200	3,800	11,300	3,700	15,928	8.1%(2019)[18]
United Kingdom	3,510	8,780	1,970	11,630	900	12,700		13,108	233	13,300	4.0%(2019)[18]
South Korea	1,010	3,430	850	4,350	1,200	5,600	2,000	7,862	3,100	11,200	3.1%(2019)[18]
France	879	6,580	559	7,130	875	8,000		9,483	900	9,900	2.4%(2019)[18]
Spain	56	5,400	55	5,490	147	5,600		4,744		8,761	4.8%(2019)[18]
Netherlands	450	1,570	525	2,100	853	2,900	1,300	4,150		6,725	3.6%(2018)[17]
Turkey			584	832	2,600	3,400	1,600	5,063		5,995	5.1%(2019)[18]
Vietnam		6		6		9		106	4,800	5,695	
Ukraine	21	432	99	531	211	742	1,200	2,003	3,500	4,800	<1%(2017)[20]
Belgium	95	3,250	170	3,422	284	3,800		4,026		4,531	4.7%(2018)[17]
Mexico			150	320	150	539	2,700	3,200		4,426	2.6%(2018)[17]
Taiwan	400	1,010						2,618		4,100	
Canada	600	2,500	200	2,715	212	2,900		3,113		3,310	0.6%(2018)[17]
Thailand	121	1,420	726	2,150	251	2,700		2,720		2,982	2.3%(2018)[17]
Brazil					900	1,100[21]		2,296	551[22]	2,847	
Greece	10	2,613						2,652		2,763	7.5%(2018)[17]
Chile	446	848	746	1,610	668	1,800		2,137		2,648	8.5%(2019)[18]
South Africa	200	1,120	536	1,450	13	1,800		2,559		2,561	1.4%(2018)[17]
Switzerland	300	1,360	250	1,640	260	1,900	346	2,246		2,524	3.6%(2018)[17]
Czech Republic	16	2,083	48	2,131	63	2,193		2,078		2,070	3.5%(2018)[17]
United Arab Emirates		35		42		255		494		1,783	
Egypt		25		48		169		750		1,647	
Austria	150	937	154	1,077	153	1,250		1,431		1,578	2.0%(2018)[17]
Romania	102	1,325		1,372		1,374		1,377		1,386	2.8%(2018)[17]
Pakistan	600	1,000						1,568		1,329	
Poland	57	87						487		1,300	
Hungary	60	138						665		1,277	
Israel	200	881	130	910	60	1,100		1,070		1,190	8.7%(2019)[18]
Bulgaria	1	1,029		1,028		1,036	0	1,036		1,065	3.8%(2018)[17]
Denmark	183	789	70	900	60	910		998		1,079	2.9%(2018)[17]
Russia	55	62	15	77	159	236	310	546		1,064	
Jordan		29		298		471		829		998	
Philippines	122	155	756	900				886		922	
Malaysia	63	231	54	286	50	386		438		882	0.8%(2018)[17]
Portugal			58	513	57	577		670		828	2.2%(2018)[17]
Sweden	51	130	60	175	93	303		421		644	0.4%(2018)[17]
Honduras	391	391		414		451		485		511	14.8%(2019)[18]
Slovakia	1	591		533		528		472		472	2.1%(2018)[17]
Algeria		49		219		400		423		423	
Iran		9	34	43	141	184	102	286	81	367	0.4%(2019)[17]
Bangladesh		145		161		185		201		284	
Singapore		46		97		118		160		255	0.8%(2018)[23]
Morocco		20		22		25		205		206	
Malta	19	73	20	93	19	112		127		154	6.5%(2017)[24]
Luxembourg	15	125		122		127		134		150	
Namibia		21		36		70		88		135	
Finland ⁽²⁵⁾	5	20	17	37	23	80	53.1	134		215	0.2%(2018)[17]
Senegal		11		43		113		134		134	
Cyprus	5	70	14	84	21	105		113		129	3.3%(2016)[26]
Lithuania ⁽²⁶⁾	0	69	1	70	4	74	10	84		103	
Norway	2	15	11	27	18	45	23	68		90	0.0%(2018)[17]
Croatia ⁽²⁶⁾		15	8	56	4	60	1	61		69	
World total	59,000[27]	256,000[27]	76,800	3,06,500	95,000	4,01,500		510,000[1]		627,000[1]	3.0% (2019)



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**Data as on Jul 31, 2025*



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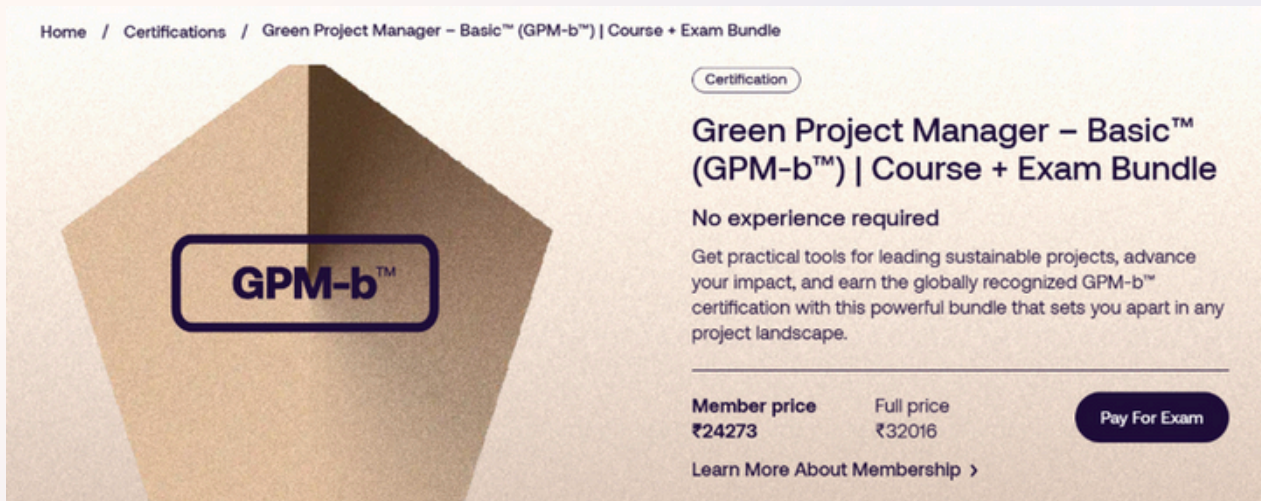
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*Data as on Jul 31, 2025

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