ISETIA & TRIMBLE TILOS CASE STUDY

POWER TRANSMISSION INDUSTRY



Sterlite Power

ABOUT STERLITE

Sterlite Power is a leading integrated power transmission developer and solutions provider globally, focused on addressing complex challenges in the sector by tackling the key constraints of time, space and capital. In our Global Infrastructure Business. Sterlite Power bid, design, construct, own and operate power transmission assets across multiple geographies.

Sterlite Power is a leading global developer of power transmission infrastructure with 22 projects spanning 12,478 circuit kilometers in India and Brazil. Our innovative usage of global technologies such as helicranes to aid in project completion, and drones to survey and monitor transmission lines remotely has allowed us to reduce the need for human intervention, and minimize impact on the environment, while also increasing accuracy in project planning and execution.



Our strong local presence and deep understanding of government regulations, in the regions we operate in helps us get things right in the first attempt. Our agile execution approach, and strong partnership ecosystem, working with all leading Indian EPCs has led to the successful completion of projects, ahead of schedule.



Our strong liquidity discipline, and innovative project financing helps empower our project execution teams to deliver ahead of schedule. We are committed to fulfilling our promises to the market, government and all stakeholders, ahead-of-schedule.

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ISETIA

IFND Trimble Tilos



What are the challenges which were faced in the absence of a Project Management Information System (PMIS) ?

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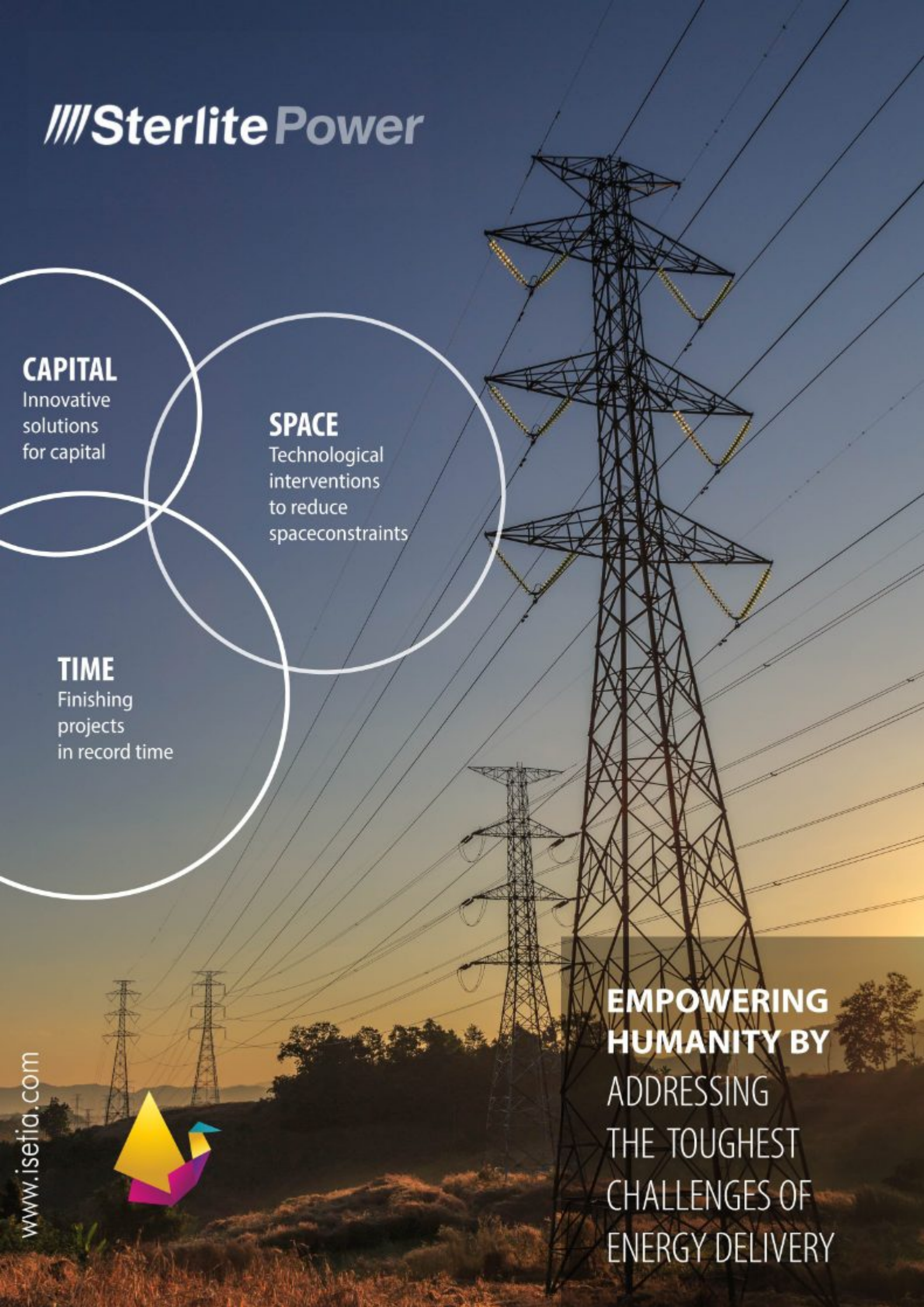
We have implemented ISETIA for 2-3 things mainly, such as workflow for change request, workflow for tracking the completion of activities. Earlier there was no online mechanism for change request approval. We used to do it only in mails and there was no record of anything. In ISETIA everything is recorded such as who has approved what, who has made changes and so on. We are also doing JMC approvals. **Challenge was in keeping track of approvals, who has approved what, who have made changes.**



How ISETIA supports Sterlite Power / The ways how the software benefitted the planning & execution team?

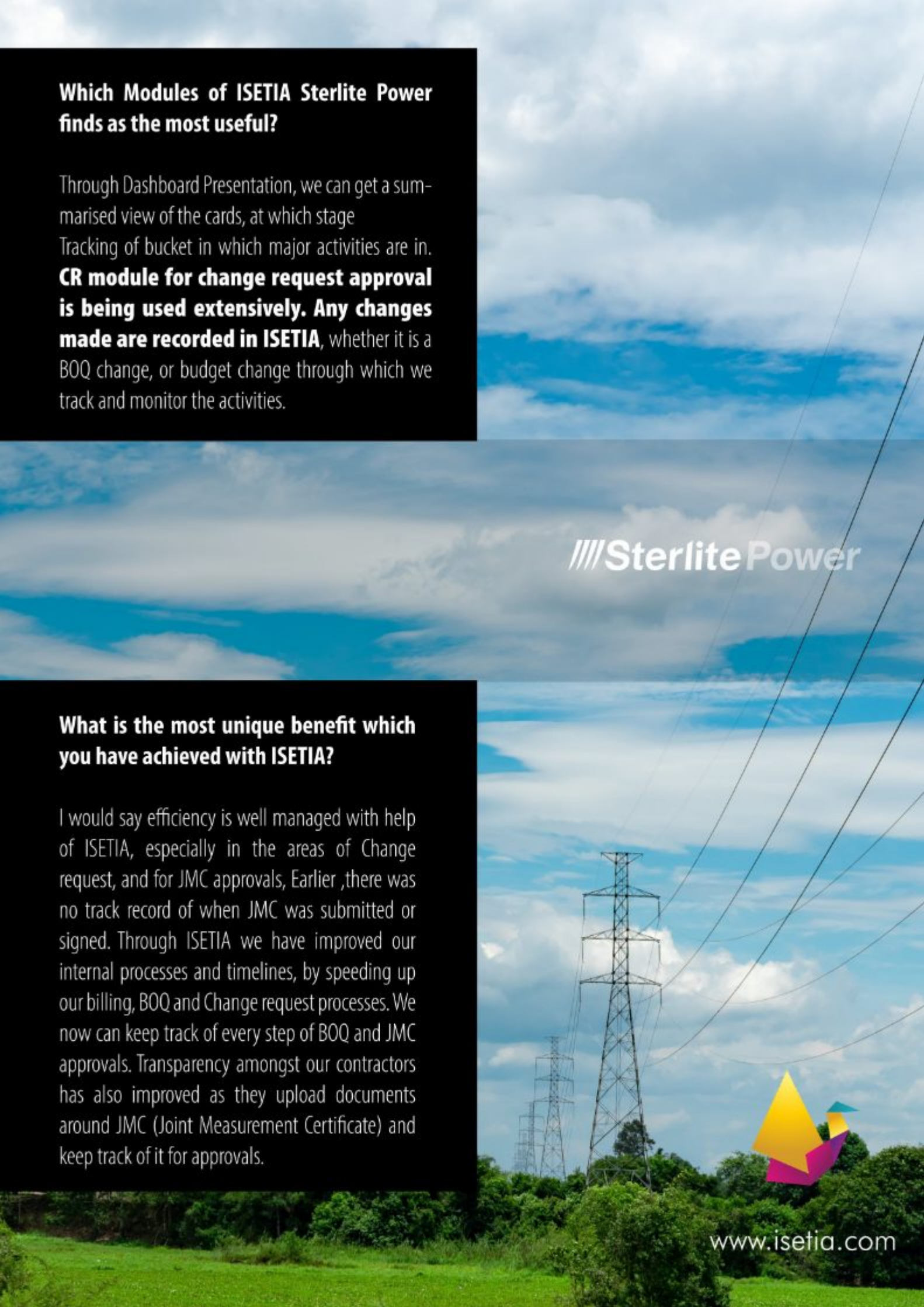
ISETIA helps in managing the micro level activities, which is difficult to track in an Excel. Since work includes a lot of activities, each step can be recorded in the cards of ISETIA which is beneficial. Secondly, all the data is stored in one central location, which can be accessed at any time, so analyzing plan vs actual is efficient and simpler. **Overall, ISETIA helps in tracking and monitoring.**

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CAPITAL
Innovative solutions for capital
SPACE
Technological interventions to reduce spaceconstraints
TIME
Finishing projects in record time
EMPOWERING HUMANITY BY
ADDRESSING THE TOUGHEST CHALLENGES OF ENERGY DELIVERY
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Which Modules of ISETIA Sterlite Power finds as the most useful?

Through Dashboard Presentation, we can get a summarised view of the cards, at which stage
Tracking of bucket in which major activities are in. **CR module for change request approval is being used extensively. Any changes made are recorded in ISETIA**, whether it is a BOQ change, or budget change through which we track and monitor the activities.



What is the most unique benefit which you have achieved with ISETIA?

I would say efficiency is well managed with help of ISETIA, especially in the areas of Change request, and for JMC approvals, Earlier ,there was no track record of when JMC was submitted or signed. Through ISETIA we have improved our internal processes and timelines, by speeding up our billing, BOQ and Change request processes. We now can keep track of every step of BOQ and JMC approvals. Transparency amongst our contractors has also improved as they upload documents around JMC (Joint Measurement Certificate) and keep track of it for approvals.

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STERLITE POWER HAS DEVELOPED KEY DIGITAL CAPABILITIES TO ENABLE EFFICIENCIES ACROSS THE PROJECT LIFECYCLE

1 SURVEY EXCELLENCE

Drone based **LIDAR** surveys

Satellite imagery to enhance terrain information

2 DESIGN OPTIMIZATION

3D design tools for pre-visualizing the built environment

Trans Analyst - **Big data algorithms** for route optimization

3 INTEGRATED SCHEDULING

Time and location based planning tool

4 PROJECT MANAGEMENT

Digital procure to pay

Workflow automation

Real time site progress tracking app

5 PROJECT CONTROLS

Digital workflow for change requests

6 VENDOR COLLABORATION

Seamless **partner collaboration platform** (design, EPC..)

7 CONTROL TOWER

BI & Analytics

GIS visualization

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How important is ISETIA for Sterlite Power?

It is very critical for our operations currently and ISETIA is an important part of our process, without which our operations might collapse in Change Request and JMC point of view. These modules are implemented in al our projects.





How ISETIA & TILOS integration fulfills needs of Utility & Transmission sector?

Generally, Indian Transmission sector, last 2-3 years have changed a bit. Before that, most companies had elementary ways of Project management like using Excel. Off late, many other companies are using TILOS for Transmission Lines. One benefit of TILOS is that we can plan more accurately and forecast better. We can identify problem areas better and rectify it sooner. We are also able to visualize the whole transmission line in one sheet visually. Now, a lot of companies are making the change from Excel to digital tools. In next 2-3 years, everyone will be moving to tools.



How is TILOS helping you?

One is forecast is much more accurate and we can see the real critical path. With excel, my team, which locations or parts that needed more work or focus. Having this tool, helped us plan more efficiently., We are utilizing the BOQ and rate function to come out with month wise cost per plan.







Report form TILOS that you use?

Plan vs actual
GANTT req
Gannt Plan vs actual

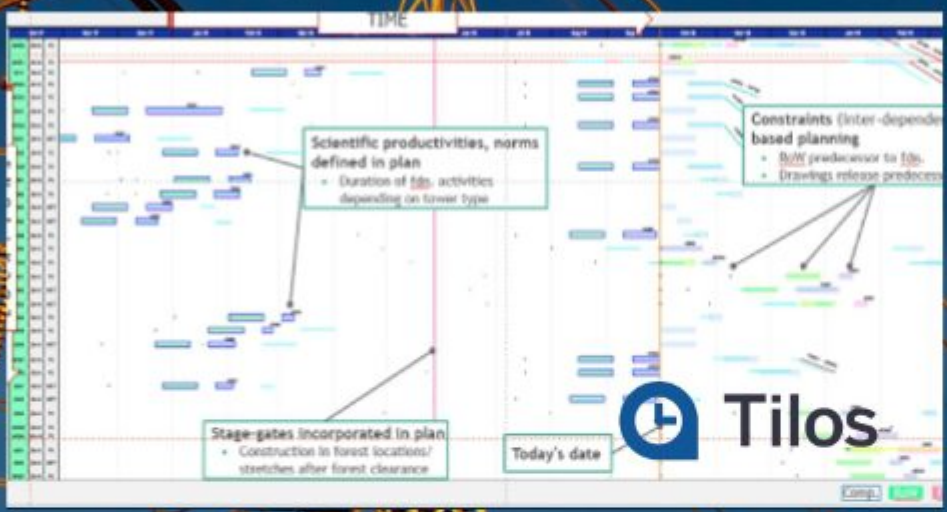
Could you quantify benefits of TILOS?

Planning process and efficiency has improved. TILOS gives early warning signs through which we take quicker actions. Planning time has reduced by 20-30%.



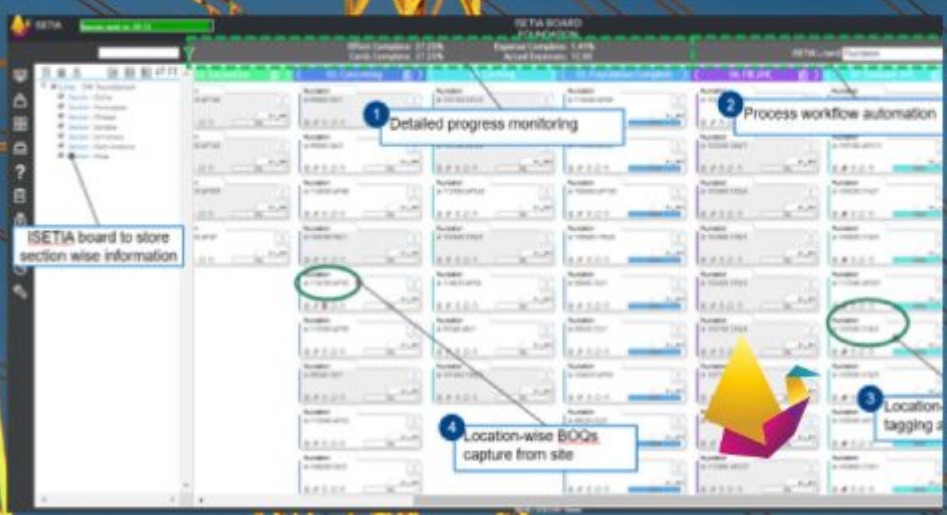
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SPEX: (ISETIA & TILOS) HELPED DEPLOY ROBUST, TIME & LOCATION BASED PLANNING AND REAL-TIME, ON-SITE PROGRESS MONITORING



TILOS for detailed, location wise construction & resource planning

- Integrated time & location level planning with stage gates
- Dynamic re-planning capability; powerful scenario analyses
- Productivity based plan; auto matic resource calculations



ISETIA to capture on-site progress, real time project data

- Digital workflow mgmt. and approvals
- Record key issues e.g. quality non-conformance
- On-site project progress
- Status of resource availability and deployment

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STERLITE POWER PARTNERED WITH FND/TRIMBLE TO CUSTOMIZE AND SHAPE THE SPEX PLATFORM

Sterlite Power

FND
Future Network Development

BCG

Trimble

KL iTech

- Defined business requirement for SPEX
- Mapped out processes, work flows to be digitized for the Transmission & Construction sector
- Understood all custom requirements
- Used flexibility of ISETIA platform to develop new functionalities
- Integrated Tilos & ISETIA into a seamless platform

STERLITE POWER, BCG & FND/Trimble's partnership has resulted in a '**BEST-IN-CLASS**' platform for the transmission and construction industries.

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CLEAR ON-GROUND IMPACT OBSERVED BY DEPLOYING **ISETIA**

ROBUST AND ACCURATE PLANNING	REDUCTION IN PROJECT DELAYS	QUICK DECISION AND CORRECTIVE ACTION	BETTER TRANSPARENCY ON COST
			
Improved predictability of project execution to 80-90%	**Reduced delays** due to material, manpower & equipment unavail-ability Ensuring construction **front readiness**	**Faster, data driven decisions** ensuring value maximization **Quick issue resolution** and corrective actions	**Early sensing** of variations in cost **Better cost control** due to granular tracking

A NEW WAY OF WORKING ESTABLISHED!

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HOW THE ISETIA PLATFORM HAS IMPACTED LIVES



We are able to expedite our monthly planning exercise with the help of TILOS and also work on various scenarios to optimize our execution plan.

Ankur V, Planning Director

TILOS is great a tool for linear asset management. We are able to easily replan in case of any delays. We can also monitor real time progress.

EPC Planning Lead

With introduction of ISETIA , we now track daily construction and RoW progress and are able to make quicker decisions.

Keyur Vadher, PMO - BNC

ISETIA has helped streamline day-to-day project management. Also, the project is now fully paperless and we are geared for a seamless handover of documentation on commissioning.

Badrinath Bhagavan, Project Director, NERSS

Besides being a great monitoring tool, ISETIA also helps us create and manage digital workflows of our documents as a DMS.

Project Teams

With TILOS, we can easily make planning forecasts by identifying critical paths, linkages and constraint release dates of all tasks.

Nilotpal Mallick, Planner - MCKT



To learn more visit us at

www.isetia.com
info@isetia.com

You will see why ISETIA has been chosen for

projects all over the globe.

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