L&T-Cloudfiniti

A brand of Larsen & Toubro

L&T Data Center & Cloud Services: Powering India's Digital Future

L&T-Cloudfiniti
Data Centers & Cloud Services

Larsen & Toubro

85
Years
of Imagineering

50+
Countries

$27Bn+
Annual Revenue

200,000+
L&Tites

Evolution of L&T

During World War II, import challenges led L&T to manufacture dairy equipment locally, marking its entry into manufacturing

1938

Founded by Henning Holck-Larsen and Søren Kristian Toubro

1940

1950

Transformed into a public limited company from a partnership firm.

Evolution of L&T

1994

L&T Finance

Larsen & Toubro Finance Holdings (LTFH) was founded (1994)

1996

LTI Let's Solve

Larsen & Toubro Infotech Limited (LTI) was founded (1996)

2000

L&T expanded globally, including in the Middle East and Asia-Pacific regions

2006

L&T Technology Services

L&T Integrated Engineering Services founded in 2006, rechristened as L&T Technology Services in 2012.

2019

Mindtree

Larsen & Toubro completed takeover of Bengaluru-based company Mindtree

Evolution of L&T

2020

L&T Electrical & Automation

Divestment of E&A Business

2022

LTIMindtree became India's 5th largest by Market Cap.

Launched L&T Data Center and Cloud Services

Started L&T-SuFin and L&T EduTech

Divestment in L&T IDPL

2023

L&T Energy GreenTech

LTSCT

Entered Green Energy Business

Entered Semiconductor Business - Fabless

Onwards

Journey Continues .....

Global Recognitions

Forbes 2023 World's Best Employer

No. 1 Middle East International Contractor (Head Quarter Outside China)

ATD BEST Awards 2024 in Talent Development

Great Place To Work® Certified FEB 2024 - FEB 2025 INDIA™

Stevie Award for Great Employers 2023

Ranked 17th in Top International Contractors (Head-Quarter outside China)

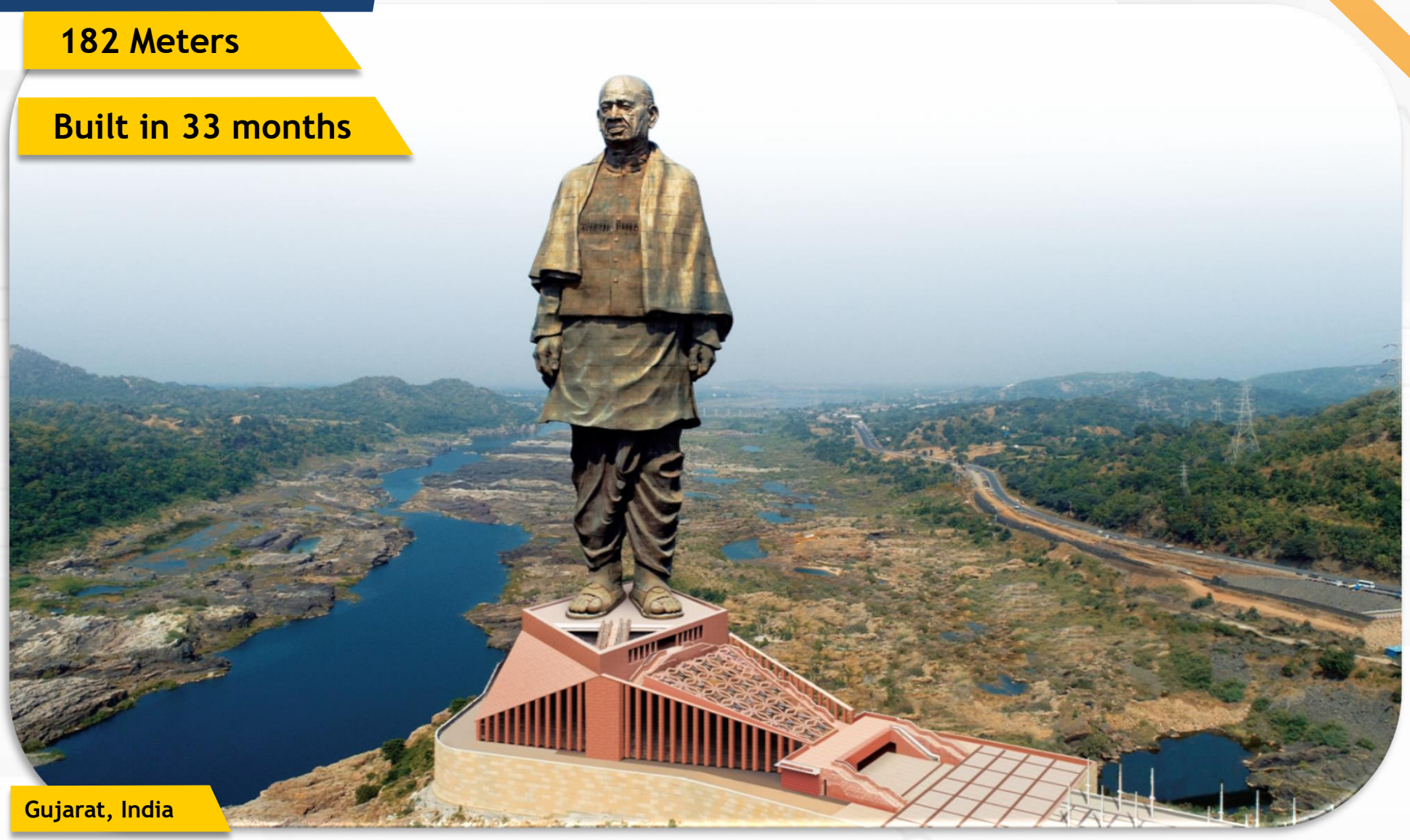
Golden Peacock HR Excellence Award 2023

MARQUEE PROJECTS

World's Tallest Statue

182 Meters

Built in 33 months

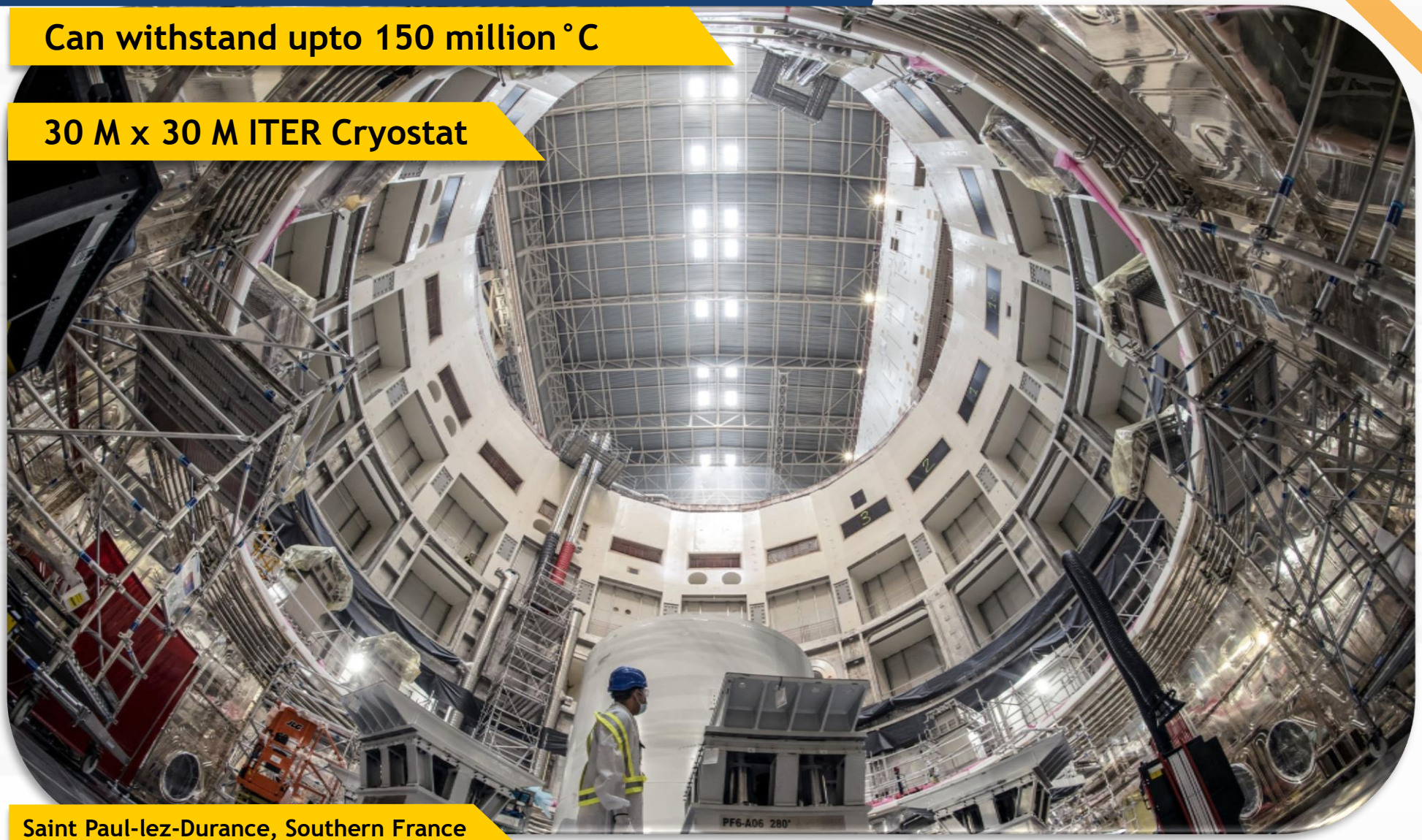


Gujarat, India

World’s Largest High-vacuum Pressure Vessel

Can withstand upto 150 million °C

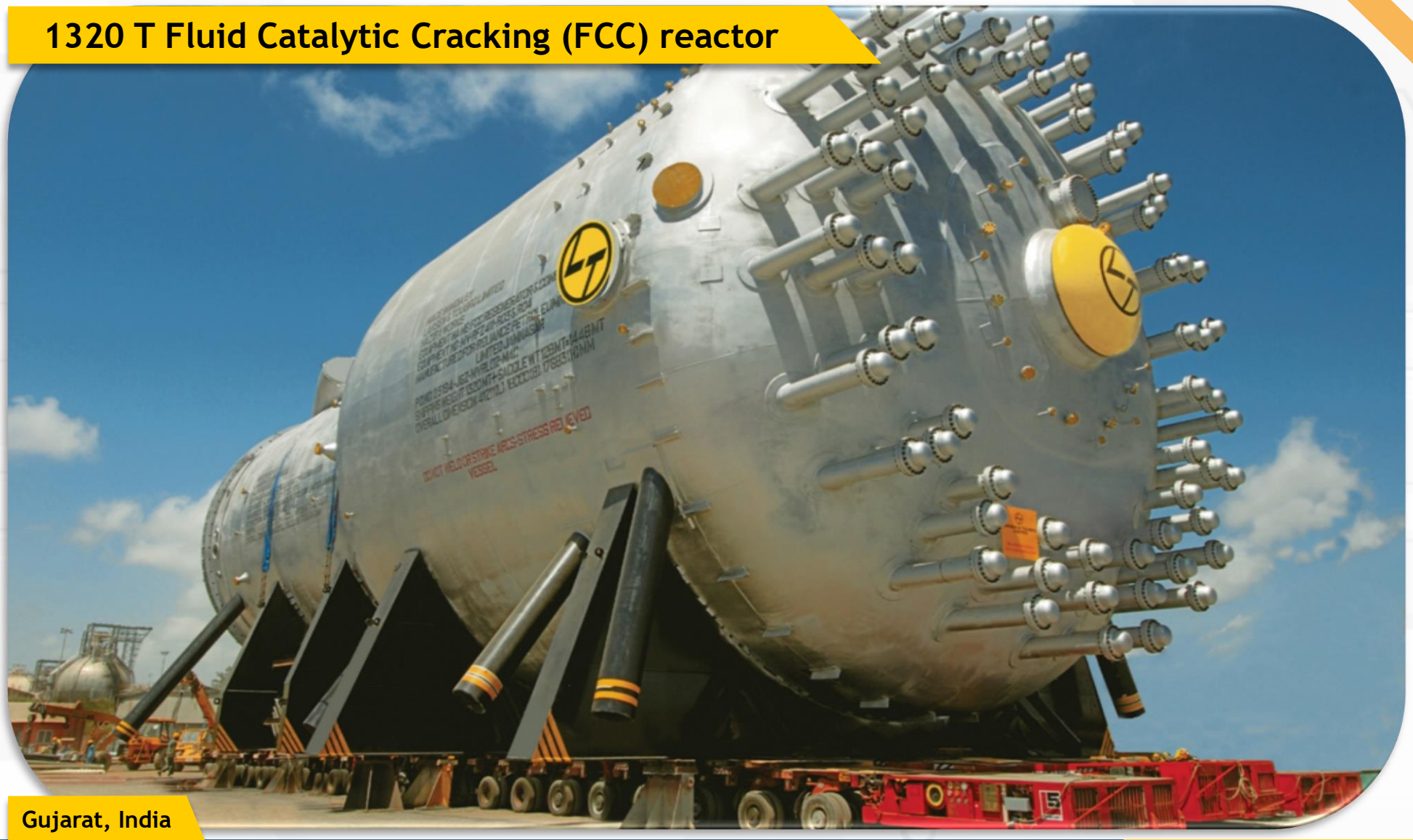
30 M x 30 M ITER Cryostat



Saint Paul-lez-Durance, Southern France

World’s Largest FCC Reactor

1320 T Fluid Catalytic Cracking (FCC) reactor



Gujarat, India

World's Largest AI-based Crowd Management System

250 million pilgrims congregating across a 100 sq. km area - the Kumbh Mela 2019

Uttar Pradesh, India

World's Longest Heated and Insulated Crude Oil Pipeline

619 km long and 24" diameter

Rajasthan to Gujarat, India

World’s Longest Extradosed Bridge

234 m main span, the Durgam Cheruvu Bridge

Telangana, India

World’s Heaviest LC Max Reactors

Weighing 2,313 tonnes

Andhra Pradesh, India

World’s Biggest Cricket Stadium

Seating capacity of 110,000 spectators

Gujarat, India

Al Rayyan Stadium for the 2022 FIFA World Cup

40,000-seater air-cooled open stadium

Doha, Qatar

Introduction to L&T Datacentre's

L&T-Cloudfiniti
Data Centers & Cloud Services

Why L&T Data Center?

- Deep Understanding Of The Indian Business Ecosystem
- Proven Track Record In Executing Hyper Scale DC
- Expertise In Providing End To End Managed Services
- Strong Existing Relationships With Government Customers
- Consumption Of Green Energy To Power Up 70% Of Proposed Datacenter Capacity
- Availability of Land Parcels

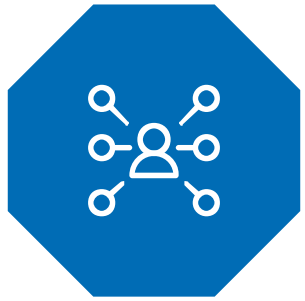
L&T's Capabilities Across Datacenter Spectrum

Buildings & Factories IC

1

NATION BUILDERS

Design & Build Infrastructure Space



Power Transmission & Distribution IC

2

LEADING

Power Infra Industry Including Renewables

L&T Technology Services

3

MANAGING

Government Data Center For Critical Operations

LTIMindtree

4

LEADING PLAYER

IT / ITes & Cloud Services

Legacy Businesses

Next-Generation Businesses

Data Centers Executed By L&T

L&T-Cloudfiniti
Data Centers & Cloud Services

EQUINIX

nxtra data
SMART. SECURE. RELIABLE

NPCI
भारतीय राष्ट्रीय भुगतान निगम
NATIONAL PAYMENTS CORPORATION OF INDIA

STTelemedia
Global Data Centres

Mumbai (Ongoing)
24 MW

Chennai (Commissioned)
24 MW

Chennai (Commissioned)
1.5 MW

Navi Mumbai (Ongoing)
24 MW

Chennai (Ongoing)
24 MW

Pune (Commissioned)
21 MW

Hyderabad (Commissioned) 1.5 MW

Bhubaneswar (Commissioned)
1.2 MW

Redundant Infra to Achieve 99.999% Uptime

POWER SOURCE	CHENNAI	PANVEL
	N+N (Sriperumbudur SS and Kanchipuram SS from TANGEDCO)	N+N

CHILLERS	CHENNAI	PANVEL
	N+2 (Quick Start Chillers)	(N+1) CRAC Units

DG SETS	CHENNAI	PANVEL
	N+1	N+1

TRANSFORMER	CHENNAI	PANVEL
	N+N	N+1

UPS BACKUP	CHENNAI	PANVEL
	N+N	N+N

L&T Panvel Datacenter

Panvel Datacenter Facility Overview

CATEGORIES	PARAMETERS	PANVEL
Configuration	No. of Racks	285
	IT Load	2 MW
	Design PUE	1.5
Site Specifications	Building Floors	G+1
	Floor Loading	15 KN/m2
	Racks / Floor	285
	Height (Slab to Slab)	6 m
	Loading dock & Staging Area	Available
	Elevator No. & Capacity	1 x 3T

Seven Layers Of Physical Security

- ✓ Perimeter Fencing
- ✓ Video Surveillance
- ✓ Boom Barriers
- ✓ Authorized Entry Only

- ✓ Physical Security
- ✓ Door Frame Scanners
- ✓ Digital Id Card
- ✓ Mantrap Entrance

- ✓ Lift Access Control
- ✓ Biometric Face Reader
- ✓ PIN 2-Factor Authentication
- ✓ Anti-Tailgating Facility

L&T Chennai Datacenter

Chennai Datacenter Facility Overview

CATEGORIES	PARAMETERS	CHENNAI
Configuration	No. of Racks	3000
	IT Load	30 MW
	Design PUE	1.5
Site Specifications	Building Floors	G+5
	Floor Loading	15 KN/m2
	Racks / Floor	600
	Height (Slab to Slab)	6 m
	Loading dock & Staging Area	Available
	Elevator No. & Capacity	2 x 4T 2 x 20 pax

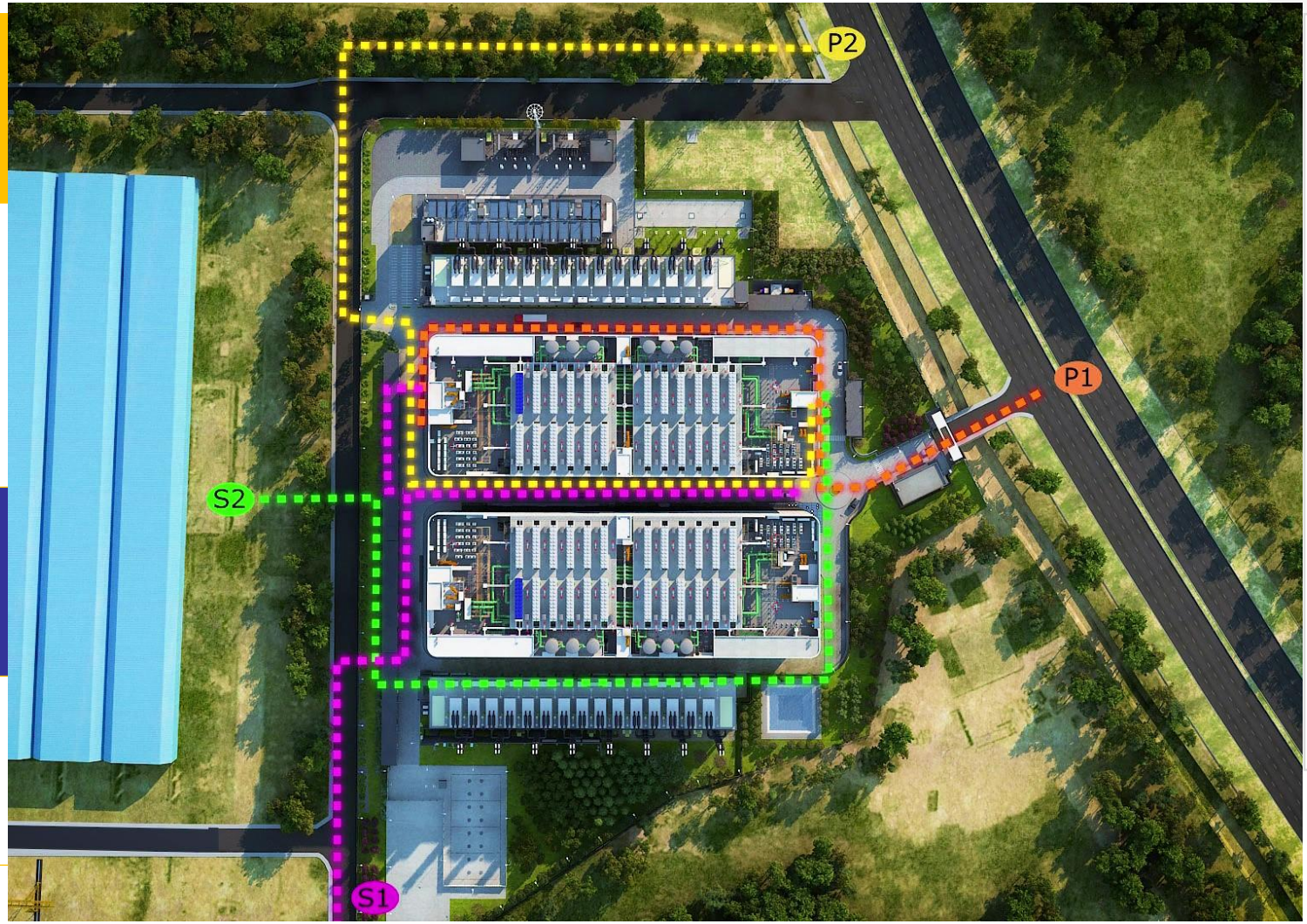
Chennai Datacenter Network Connectivity

Carrier Neutral Data Center

4 Independent Entry Points with Two Primary and Two Secondary Paths into Premises.

All Major Telcos available

Redundant Meet Me Room



airtel

Vi

Jio

TATA
TATA COMMUNICATIONS

BSNL

Power Supply & Sustainability Overview

- Dual Active 230 kV express feeders
- From two independent utility substations
- Redundant 230 x 11 kV captive gas insulated substation powers entire campus

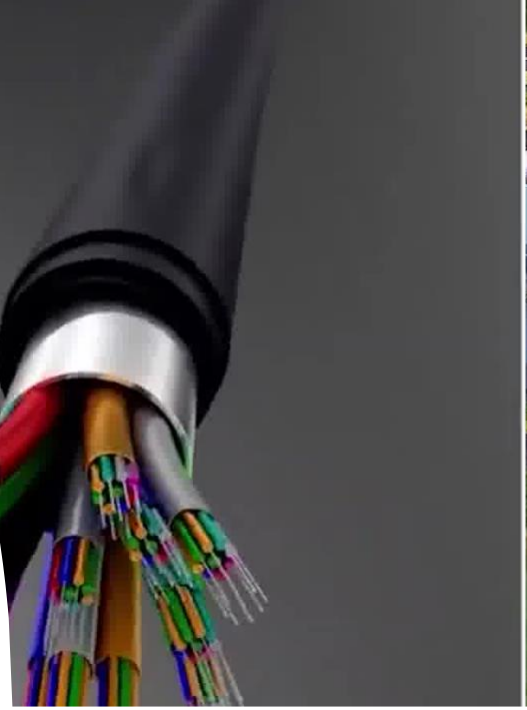
In House Facilities

Fiber Connectivity:

Four dedicated fiber paths for high-speed connectivity

Infrastructure:

- ✓ Captive 230 kV gas-insulated substation
- ✓ DG for backup power
- ✓ HSD yard for fuel storage
- ✓ Water treatment plant for sustainable operations
- ✓ Sewage treatment plant for environmental responsibility



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- ✓ Anti-Tailgating Facility

SPD DC : High-Density Racks with Advanced Cooling

Offering high power density racks from 12.5 kW to 80 kW, ensuring efficient and scalable solutions for all your data needs. Equipped with advanced cooling options such as direct liquid cooling for optimal performance.

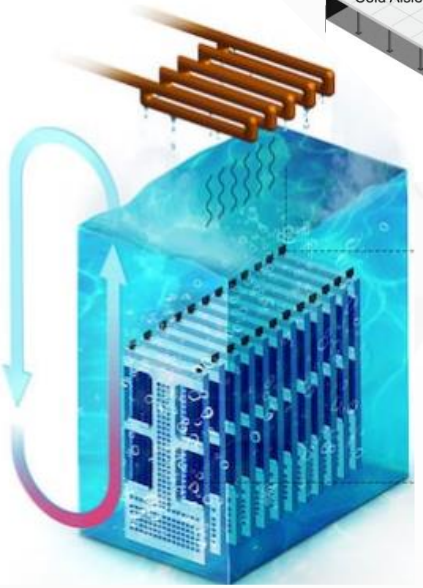
Cooling Technologies:

1. Direct Liquid Cooling:
Fluid circulates through plates on chips for effective cooling. Requires complex plumbing, common in high-performance computing.

2. Liquid Immersion Cooling:
Servers are submerged in nonconductive fluid like mineral oil, enabling efficient cooling up to 100 kW with minor server modifications.

3. Rear Door Heat Exchanger (RDHx):
Coils in cabinet doors remove heat. Passive units cool up to 32 kW; those with fans handle up to 60 kW, eliminating hot and cold aisles.

4. In-Row Cooling:
Units between server racks provide targeted cooling, improving efficiency and reducing energy costs.



Green Initiatives For Sriperumbudur Datacenter

IGBC Platinum Certified Green Building

- ✓ Natural Topography
- ✓ Eco-friendly Refrigerant
- ✓ Energy Management System
- ✓ Green Products E-Waste Management

Net Zero Water System

- ✓ Water Recharging Pits
- ✓ Water Efficient Plumbing
- ✓ Wastewater Treatment & Reuse

Renewable Energy

- ✓ Consumption Of Green Energy To Power Up 70% Of Proposed Datacenter Capacity
- ✓ 60 KW Captive Solar Power – Roof Top Solar Street Lighting

Green Initiatives

- ✓ Replanted 100+ Trees on Project Sites
- ✓ Use of Triple Blend Mix Concrete – 40% Less Cement Consumption (less CO_2 release)

The Power of AI

RE-IMAGINEERED

Adapting to AI Using a High-Density Colocation Data Center with L&T-Cloudfiniti

L&T-Cloudfiniti
Data Centers & Cloud Services

L&T-Cloudfiniti Sriperumbudur DC -
More than just colocation, its your gateway to AI world!

Beyond The Aisle –
Unlocking sustainable
Liquid Cooling Technology

High Density Powerhouse
Availability Of Flexible
Power Density

Sustainability At Its Core
Aiming to achieve a 70% green
power feed

Unmatched Scalability
Future growth &
changing AI needs

Reliable Connectivity
Connect your digital infrastructure
at your fingertips

Built To Suite - AI Ready
To host your Digital Infrastructure

Unwavering Security
Your AI infra is safe with
offered digital vaults

L&T DATA CENTRE & CLOUD SERVICES

LARSEN & TOUBRO

AI – Market Segmentation

AI at Scale

- ✓ Pure Infrastructure Play (BareMetal)

Enterprise AI

- ✓ Software Play
- ✓ (Platform, Modelling, Industry Specific Solutions)

Targeted Verticals

- ✓ Defence
- ✓ Media
- ✓ Government / Public Services
- ✓ Education & Research

Targeted Verticals

- ✓ BFSI
- ✓ Retail
- ✓ Healthcare
- ✓ Manufacturing

Datacenter Certifications In Process

L&T Announces Strategic Partnership with E2E Networks

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Data Centers & Cloud Services

E2E Cloud

E2E Networks Limited Announces Strategic Partnership with L&T to Accelerate Cloud and AI Innovation for Indian Enterprises

November 05, 2024 at 12:29 am EST

Share

E2E Networks Limited announced a strategic partnership with Larsen & Toubro. The partnership is a significant step towards adoption of GenAI solutions in India to foster a fundamental shift in the way Accelerated C

Larsen & Toubro Networks for Rs

The company will not acquire control in minority shareholder with certain prote

mint Premium | COMPANIES

L&T boosts AI, data centre ambitions with E2E Networks deal

Nehal Chaliawala , Shouvik Das | 4 min read | 05 Nov 2024, 10:07 PM IST

Budget 2024 Financial Literacy International Business Markets

PRESS RELEASE

L&T Announces Strategi Partnership with E2E Ne Accelerate Cloud and AI for Indian Enterprises

CXOtoday News Desk 6 days ago

LARSEN & TOUBRO

L&T to also acquire 21% equity in E2E Networks

Larsen & Toubro (L&T), India's premier tech-led conglomerate, has announced a strategic partnership with E2E Networks, an Indian Cloud and AI Cloud provider. The partnership is a significant step towards the adoption of GenAI solutions in India to foster a fundamental shift in the way Accelerated Computing on Cloud is used by Indian organisations. The transformative journey for organisations in AI adoption is a fundamentally different approach to implementing GenAI software solutions using Cloud GPUs to utilise an organisation's deep learnings to deploy and evolve production-grade self-adapting AI Software. L&T will also

1% stake in E2E Networks for

IST

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ubro (L&T) announced a significant investment of % stake in cloud services provider E2E Networks Ltd. This strategic move aims to bolster L&T's presence in the rapidly expanding cloud ... Read More

THE ECONOMIC TIMES | tech

English Edition | 11 November, 2024, 03:06 PM IST | Today's ePaper

Larsen & Toubro Engineers Rs 1,300 crore ladder to the cloud

THE HINDU BUREAU

L&T will integrate E2E Networks' Cloud and AI Cloud platform with its expertise in data centre management and cloud solutions to cater to the startups and enterprises. | Photo Credit: Reuters

NEW DELHI, Infrastructure major Larsen & Toubro (L&T) on Tuesday said it will acquire 21 per cent stake in E2E Networks Ltd, a cloud services company, for Rs 1,407.02 crore. The move assumes significance as it will increase L&T's reach in cloud and AI services -- the key growth areas in the technology sector.

"The company has entered into an investment agreement on November 5, 2024

How L&T and E2E Strategic Partnership Service Offerings

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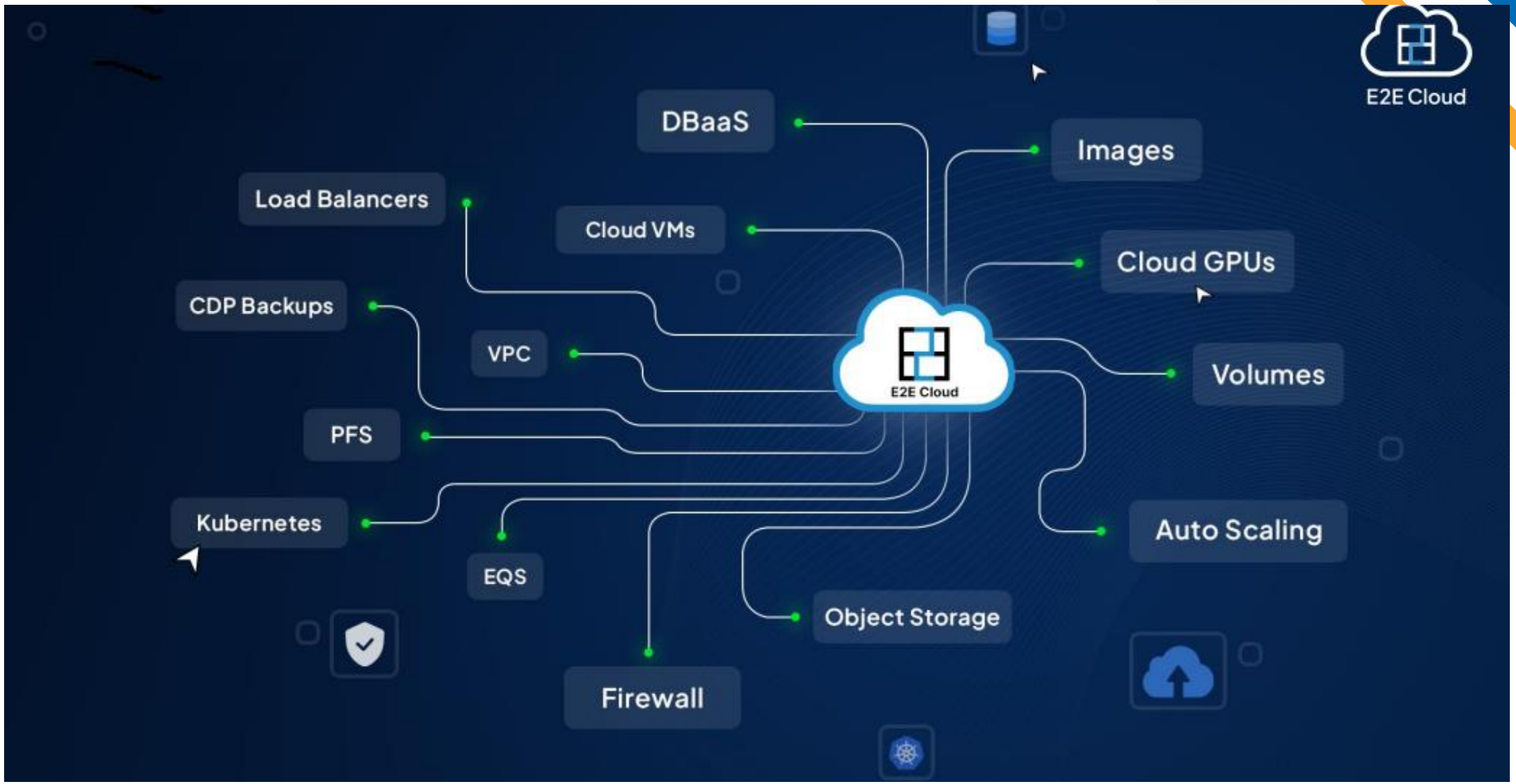
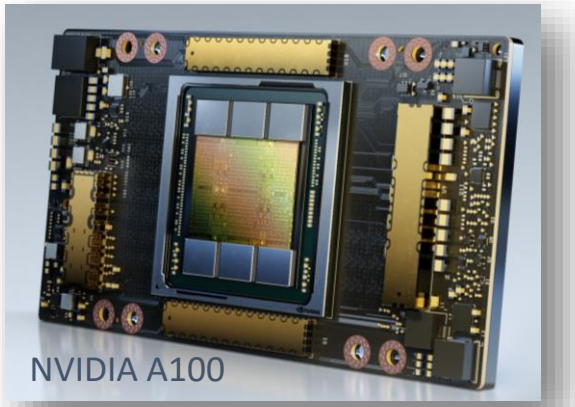

E2E Cloud
DBaaS
Images
Load Balancers
Cloud VMs
Cloud GPUs
CDP Backups
VPC
Volumes
E2E Cloud
PFS
Kubernetes
Auto Scaling
EQS
Object Storage
Firewall

Leveraging NVIDIA GPUs for your AI/ML workloads

L&T-Cloudfinity
Data Centers & Cloud Services

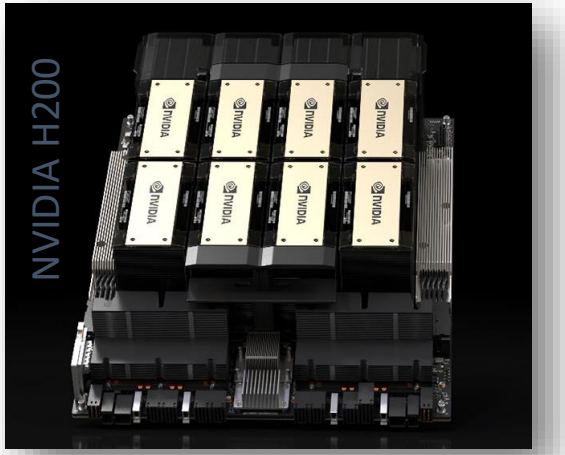
GPU Market-trend and Roadmap

Current trend shows most of the CSPs and Hyperscalers are offering NVIDIA A100, L40, L40 S, A2 Tensor, A10 Tensor, A16, A30, A40 as their GPU as a Service



What latest products we are offering is NVIDIA H200, which will transform your GPU based AI/ML Journey

H200 has shown better performance with 141 GB Memory, 4.8TB/s Memory Bandwidth,NVLink®: 900GB/s and PCIe Gen5: 128GB/s



With all these technological advancements H200 GPU further benefits us over and above old generation GPUs in the following ways.

How the NVIDIA H200 Enhances AI & HPC Performance Over the H100

1. Faster Inference for Large Language Models (LLMs)
The H100 struggles with slower inference speeds when running large models like GPT or Llama2, which can hinder real-time applications. The H200 fills this gap by delivering up to 2x faster inference, reducing latency and improving responsiveness for customer-facing AI.

2. Increased Memory Capacity for Deep Learning
With 80GB of memory, the H100 limits the size and complexity of models that can be deployed. The H200 overcomes this limitation with 141GB of HBM3e memory, enabling larger, more complex models to run seamlessly without memory bottlenecks.

3. Higher Bandwidth for Real-Time Processing
The H100's 3.35 TB/s bandwidth can restrict performance in high-resolution image and video processing. The H200 addresses this shortfall with 4.8 TB/s of bandwidth, a 43% increase that accelerates data handling and boosts throughput for demanding real-time workloads.

4. Improved Multi-Instance Capacity for Concurrent Workloads
While the H100 supports up to 10GB per Multi-Instance GPU (MIG), this can be limiting for running multiple tasks simultaneously. The H200 increases this capacity to 16.5GB per MIG, enabling more efficient concurrent processing and improved performance on large data tasks.

5. Enhanced Energy Efficiency for HPC
The H100's high power usage raises the total cost of ownership (TCO) in power-intensive applications. The H200 is designed with up to 50% lower energy consumption, reducing operational costs and supporting sustainability goals in high-performance computing.

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Latest News

L&T TECH ACQUIRES CALIFORNIA-BASED AI SOFTWARE FIRM, INTELLISIWFT

Expands footprint in Hyperscalers and big tech spenders

The acquisition aims at enhancing L&T Tech's AI and software capabilities through:

- **Industry leading software product development, data & platform engineering capabilities**
- **Intelliswift's AI-led automation framework which provides end-to-end automation solutions across platforms and processes.**
- **Digital enterprise & Integration services through agile engineering and next generation technologies**

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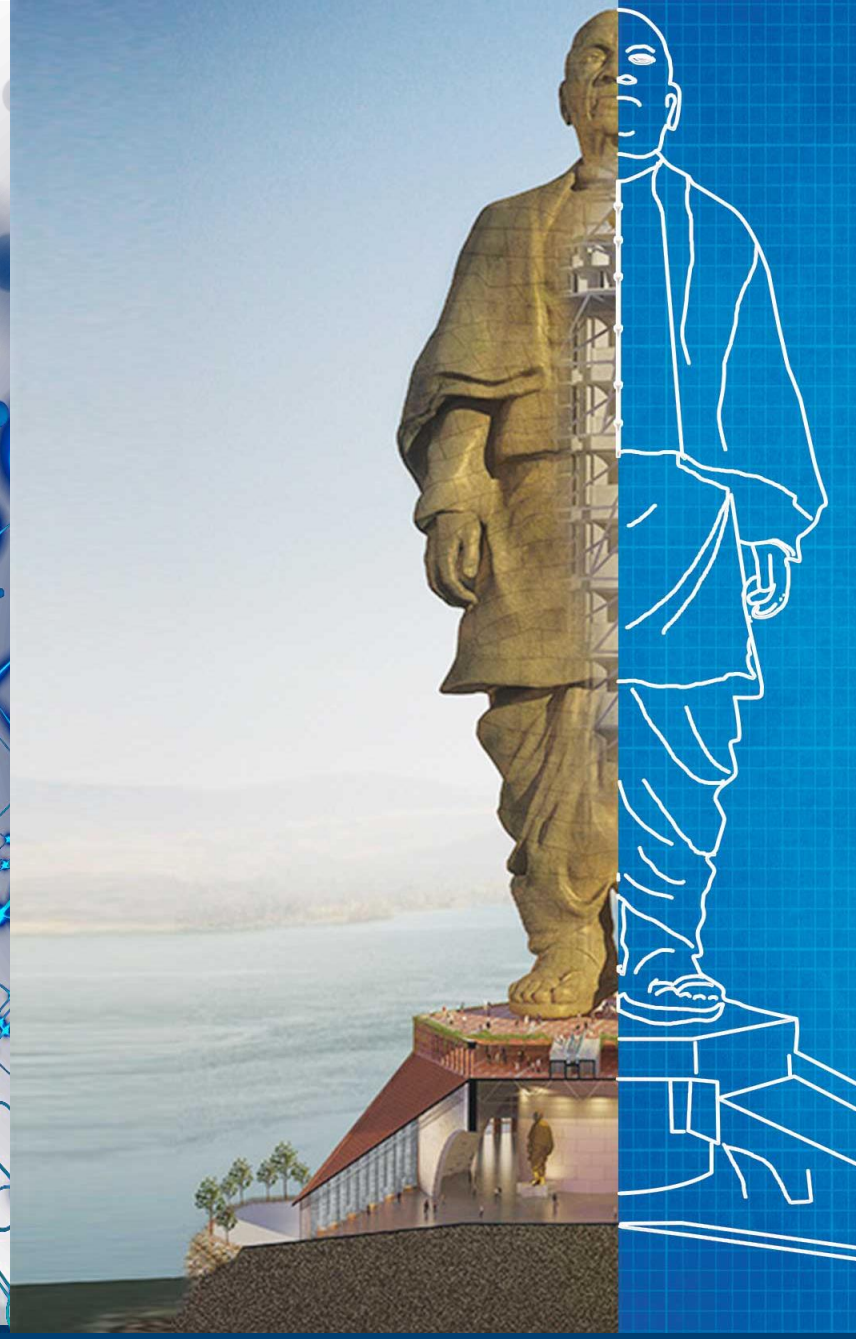

IF YOU CAN DREAM IT, WE CAN DO IT.

Thank You

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