



Dear Team and Valued Stakeholders,

I am thrilled to announce a significant milestone in our journey—Cygni Energy has successfully commissioned the first phase of our automated **Battery Energy Storage System (BESS) Giga-factory** at the E-Mobility Valley within the Electronics Manufacturing Cluster (EMC) in Maheshwaram, Hyderabad.

This achievement marks a pivotal moment in our commitment to advancing sustainable energy solutions. The inauguration was graced by *Shri Jayesh Ranjan, Special Chief Secretary to the Government of Telangana and CEO of the Industry & Investment Cell in the Chief Minister's Office.* We were also honored by the presence of *Prof. Ashok Jhunjhunwala, Chairman of IIIT-Hyderabad, and Mr Srinu Raju, Founder of iLabs Group,* along with several esteemed industrial leaders and our dedicated Cygni leadership team.

Thank you for your continued support and belief in our vision. The energy storage industry in India is witnessing a transformative phase, with groundbreaking developments and increasing adoption of sustainable energy solutions.

Read more in this month's newsletter, and as always, we welcome your feedback to help us improve..

Warm regards,

Venkat Rajaraman

Founder / CEO

Cygni Energy Pvt. Ltd.

Cygni in the News

Cygni Energy Opens 4.8 GWh BESS Gigafactory



Cygni Energy, a leading player in integrated energy storage solutions, has successfully commissioned the first phase of its state-of-the-art automated Battery Energy Storage System (BESS) gigafactory at the E-Mobility Valley within the Electronics Manufacturing Cluster (EMC) in Maheshwaram, Hyderabad.

The inauguration was led by Shri Jayesh Ranjan, Special Chief Secretary to the Government of Telangana and CEO of the Industry & Investment Cell in the Chief Minister's Office. He was joined by Mr Srinu Raju, Founder of iLabs Group and Prof. Ashok Jhunjhunwala, Chairman of IIIT-Hyderabad, along with several industrial leaders and the Cygni leadership team on 30-Apr-2025.

[Read the News here](#)

CYGNI'S LATEST PATENT ON REDUCING THERMAL RUN-AWAY IN LITHIUM-ION BATTERIES



INTELLECTUAL
PROPERTY INDIA
PATENTS / DESIGNS / TRADE MARKS
GEOGRAPHICAL INDICATIONS



सत्यमेव जयते

क्रम सं/SL No :044198304



पेटेंट कार्यालय, भारत सरकार

The Patent Office, Government Of India

पेटेंट प्रमाण पत्र

Patent Certificate

(पेटेंट नियमावली का नियम 74)

(Rule 74 of The Patents Rules)

पेटेंट सं. / Patent No.

565330

आवेदन सं. / Application No.

202341074645

फाइल करने की तारीख / Date of Filing

02/11/2023

पेटेंटी / Patentee

Cygni Energy Private Limited

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकरित **A SYSTEM FOR REDUCING THERMAL RUN-AWAY EVENTS IN LITHIUM ION BATTERIES** नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख नवम्बर 2023 के दूसरे दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled **A SYSTEM FOR REDUCING THERMAL RUN-AWAY EVENTS IN LITHIUM ION BATTERIES** as disclosed in the above mentioned application for the term of 20 years from the 2nd day of November 2023 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 21/04/2025
Date of Grant :

उत्पादक
पेटेंट नियंत्रक
Controller of Patents

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, नवम्बर 2025 के दूसरे दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained, will fall / has fallen due on 2nd day of November 2025 and on the same day in every year thereafter.

We're thrilled to announce that Cygni has been recently granted a patent for "**A SYSTEM FOR REDUCING THERMAL RUN-AWAY EVENTS IN LITHIUM-ION BATTERIES**" .

This innovation marks a significant step forward in ensuring battery safety and reliability, reinforcing our commitment to pushing the boundaries of technology and innovation in battery design.

At Cygni, we're not just building energy storage solutions; we're shaping a safer, smarter, and more sustainable energy future.

Economic Analysis of BESS

ECONOMIC ANALYSIS OF BATTERY ENERGY STORAGE SYSTEMS

Clean Energy Global Solutions Group
Energy & Extractives Global Practice

May 2020



Renewable Energy projects with Storage bring new challenges to economic and financial analysis: because BESS can deliver a range of grid energy management and power services (such as peak load shifting, renewable integration and , ancillary services), that are not always easy to quantify, or even possible to value and monetize. Though it is a dated report from the year 2020, it still provides a great overview of the Economic Analysis of the Battery Energy Storage Systems.

[Read the Report Here](#)

Cygni's Industry-Leading Storage Solutions



HOW CAN ENERGY STORAGE HELP YOU?

- ELIMINATE DIESEL GENERATOR USAGE
- FAST SWITCHOVER DURING POWER CUTS
- REDUCE TIME OF DAY CHARGES
- MANAGE PEAK POWER DEMAND
- INCREASE SOLAR CAPACITY
- INCREASE GREEN ENERGY USAGE

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WIDE RANGE OF ENERGY STORAGE SOLUTIONS

RESIDENTIAL (5 TO 20KWH)



- ✓ Ideal for homes / villas
- ✓ Elegant wall mounted or floor mounted options
- ✓ Instant power back-up
- ✓ 8 year standard warranty

SMALL COMMERCIAL (25 TO 50KWH)



- ✓ Suited for small offices / warehouses
- ✓ Eliminate DG up to 25 kVA
- ✓ Support fully off grid operation
- ✓ 8 year standard warranty

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WIDE RANGE OF ENERGY STORAGE SOLUTIONS

SMALL INDUSTRIAL (50 TO 250KWH)



- ✓ Ideal for factories, warehouses, commercial complexes
- ✓ Eliminate DG up to 125kVA
- ✓ Store excess solar, manage peak demand or time of day charges
- ✓ 8 year standard warranty

MEDIUM C&I (250KWH TO 1MWH)



- ✓ Small commercial complexes, process industries, off grid use
- ✓ Eliminate DG up to 500kVA
- ✓ Manage peak demand
- ✓ 10 year standard warranty

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Cygni's energy storage solutions provide a cost-effective and reliable alternative to grid power, offering significant benefits for Commercial & Industrial (C&I) customers:

- **10+ Year Warranty:** An industry-leading warranty that supports long-term financing options, akin to solar solutions.
- **Local Service Network:** A robust network of service technicians ensures maximum system uptime and reliability.
- **Custom Solutions:** Tailored energy solutions designed to optimize return on investment (ROI).

For inquiries, contact us at info@cygni.com.

[Download The Catalogue Here](#)

India's Stand-alone BESS Tenders as on Apr '25

Note: Only captures tenders under competitive bidding
Source: MNRE Guidelines, tender nodal agency websites, compiled by Debnaiya Sen

Tender Month	Tendering Authority	Power Capacity (MW)	Energy Capacity (MWh)	No of Cycles per day	Business Model	Subsidy/VGF	Present Status	Winners	Winning Quote (INR)
Mar-22	NTPC	10	40	1	EPC		Cancelled		
Apr-22	SECI	500	1000	2	BOOT		Cancelled	JSW Energy	10.83 lac/MW/month
Apr-22	KSEB	10	20	1	BOO		Cancelled	Hero Future	11.25 lac/MW/month
Jun-22	GUVNL	25	50	1	BOO		Cancelled		
Oct-22	UPPCL	50	200	2	BOOT		Cancelled	ACME, JSW, Continental Milkose	10.66 lac/MW/month
Apr-23	NTPC	0.25	1.2	1	EPC		Tender Awarded	Jayram Industries	-
Sep-23	BRPL	20	40	1	BOOT	Grant	Operational	Indigrid	57 lacs/MW/year
Oct-23	AEML	54	66	1	EPC		Cancelled		
Oct-23	SECI	8	20	1	BOO		NIT		
Nov-23	GUVNL	250	500	2	BOO		Under Execution	Indigrid, Gensol	4.49 lacs/MW/month
Mar-24	GUVNL	500	1000	2	BOO		Under Execution	Gensol	3.72 lacs/MW/month
Jun-24	NTPC	250	500	2	EPC		Bid Closed		
Jun-24	NTPC	0.6	3	1	EPC		Tender Awarded	Rays Power	
Jun-24	NTPC	500	1000	2	BOO	30% VGF	Tender Awarded	Indigrid, HS Infra, Kintech Synergy	2.37 lacs/MW/month
Jun-24	SECI	1000	2000	2	BOO		Cancelled	JSW, Reliance ADA	3.81 lacs/MW/month
Aug-24	UPPCL	300	1200	2	BOOT		Cancelled		
Aug-24	MSECDL	300	600	1	BOO	30% VGF	Tender Awarded	Pace Digitek	2.19 lacs/MW/month
Aug-24	GUVNL	500	1000	2	BOO	30% VGF	Tender Awarded	Kintech, HG Infra, Bhilwara, Adwait	2.26 lacs/MW/month
Oct-24	NTPC	100	400	2	EPC		RfS Issued		
Oct-24	OTPC	25	100	1	EPC		Cancelled		
Nov-24	RVUNL	500	1000	2	BOO	30% VGF	Tender Awarded	Oriana,JSW,Rays Power,Solarworld	2.21 lacs/MW/month
Dec-24	SECI	125	500	1	BOO	30% VGF	Under Execution	JSW Energy	4.41 lacs/MW/month
Jan-25	GUVNL	500	1000	2	BOO		RfS Issued	Solarworld, HG Infra	2.80 lacs/MW/month
Jan-25	NHPC	125	500	2	BOO	30% VGF	Bid Closed		
Jan-25	TGGENCO	250	500	2	BOO	30% VGF	Tender Awarded	Bondada Engg, Oriana Power, Pace Digitek	2.40 Lacs/MW/month
Jan-25	NTPC	2500	10,000	2	EPC + O&M		RfS Issued		
Feb-25	KPTCL	500	1000	2	BOOT	30% VGF	Tender Awarded	Sarala, Oriana, Pace Digitek	2.49 lacs/MW/month
Feb-25	BSPGCL	125	500	1	BOO	30% VGF	RfS Issued		
Feb-25	NHPC	500	1000	2	BOO	30% VGF	Bidding Closed		
Feb-25	NTPC	250	1000	1	BOO	30% VGF	RfS Issued		
Feb-25	SJVN	375	1500	1	BOO	30% VGF	RfS Issued		
Feb-25	NVVN	500	1000	2	BOO	30%VGF	RfS Issued		
Feb-25	TNGECL	500	1000	2	BOO	30% VGF	Bidding Closed		
Apr-25	DVC	250	500	2	EPC + O&M		RfS Issued		

According to the Central Electricity Authority (CEA, 2023), India will require at least 41.7 GW / 208 GWh of battery energy storage systems (BESS) by 2030. Fast-forward to 2032, and the India Energy Storage Alliance (IESA) projects a total market size of 250 GWh of BESS capacity — a staggering leap from the 0.36 GWh operational as of January 2025.

Clearly, this is no longer a niche segment — battery storage is central to India’s clean energy and mobility ambitions.

[Read Here](#)

Industry News

Maharashtra’s new EV Policy 2025 to accelerate sales of zero-emission vehicles



Comprehensive five-year Electric Vehicle Policy with an allocation of Rs 1,993 crore is designed to accelerate adoption of electric mobility across all vehicle segments while also rapidly expanding charging infrastructure across the state. In FY2025, Maharashtra was the No. 1 state in sales of e-two-wheelers, electric cars and SUVs, and also e-commercial vehicles.

[Read Here](#)

Upcoming Activity

EFY (Electronics For You) Expo Pune2025

Cygni Energy is set to engage at the EFY Expo Pune 2025, with our CEO, Mr. Venkat Rajaraman, slated to speak at the upcoming session titled "**Empowering Energy: The Role of Electronics and AI in Revolutionizing Battery Energy Storage Systems**". The event is slated for May 15th-17 at the Auto Cluster Exhibition Center, Pune.



Register Here

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