

TPI Polene Group of Companies

We Build the Future

20 January 2023

Global Economics Awards 2022

What We Stand for



T TECHNOLOGY

Driving and expanding businesses using cutting edge technologies and the latest techniques

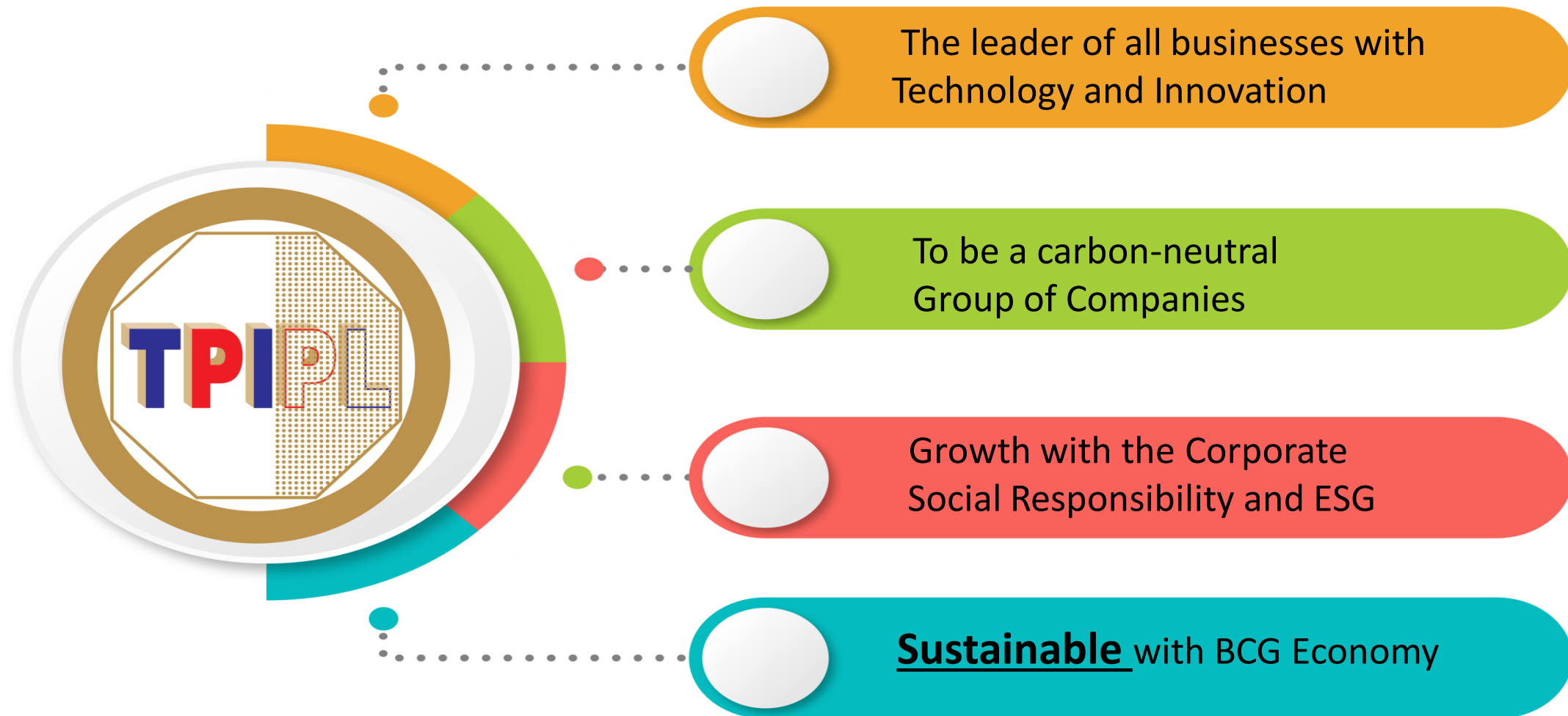
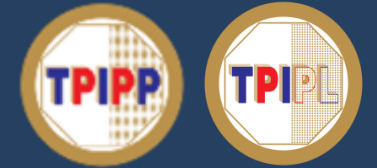
P RODUCTS

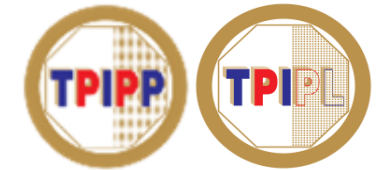
Produce the top, world-class products to satisfy the customer's needs in all areas of life

I NNOVATION

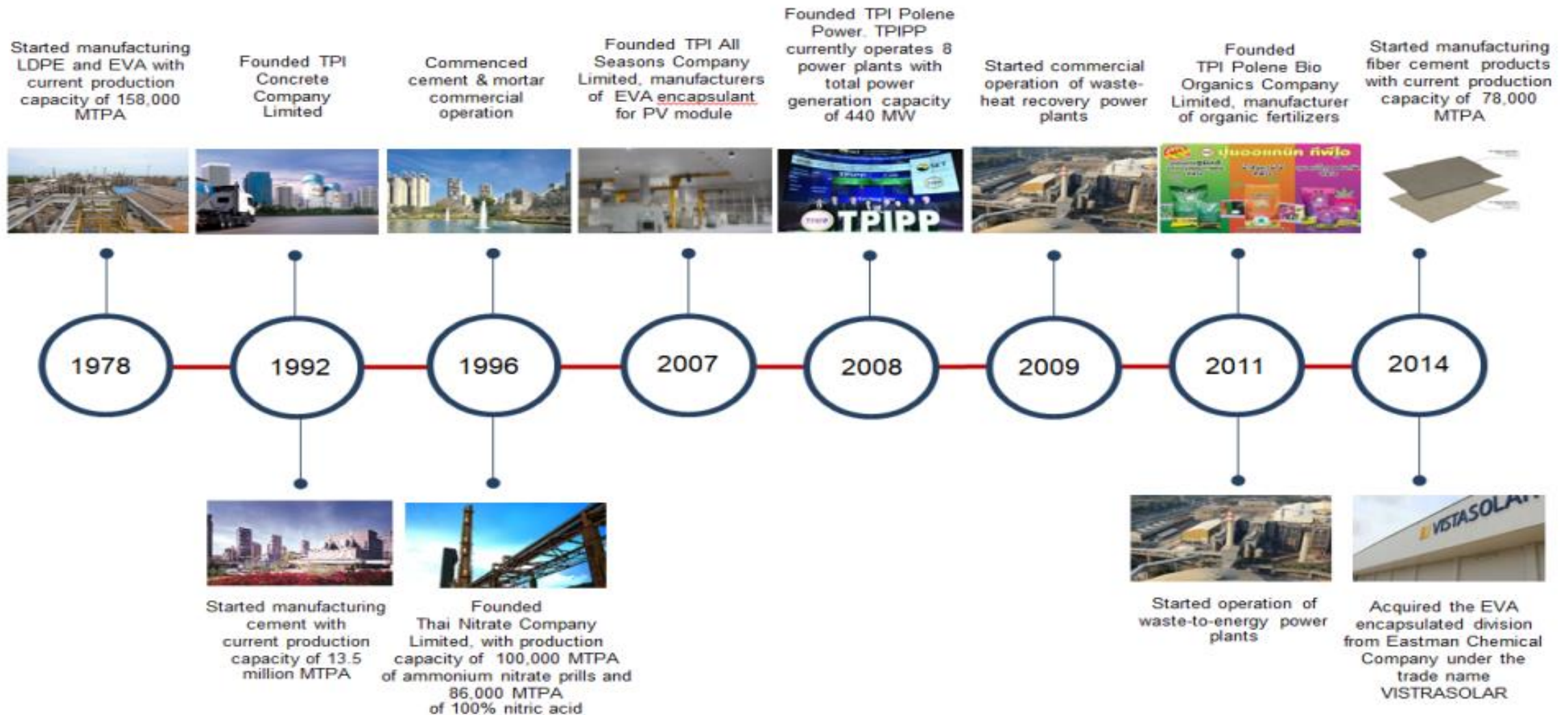
Moving forward with the newest innovations through a top class R&D facilities

Our Visions and Missions





History in Brief – Over 40 Years of Presence



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Overview of the Company



| | TPIPL Group (2021a) | TPIPL Group (Q32022 annualized) |
|-------------------|---|------------------------------------|
| Businesses | Fully integrated construction materials, coupled with specialty polymer, power plant (emphasis on WTE), agriculture products and healthcare products. | |
| Total Revenue | 41,279 | 53,181 |
| Operating EBIT | 9,128 | 11,331 |
| Net Profit | 6,918 | 9,232 |
| Total Assets | 135,714 | 140,549 |
| Total Liabilities | 78,152 | 78,197 |
| Total Equity | 57,562 | 62,352 |

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Construction Materials

Cement
Concrete
Fiber Cement
Concrete Rooftiles



BUSINESS UNITS

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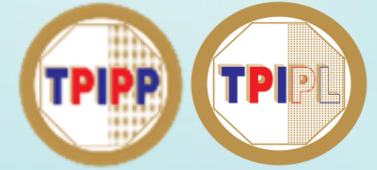
Specialty Polymer and Chemicals

Ethylene Vinyl Acetate Resin
Low Density Polyethylene Resin
Special Polyethylene Resin
Vinyl Acetate Ethylene Emulsion
EVA Redispersible Powder
Ammonium Nitrate



Energy

Waste to Energy Power Plants
Heat Waste Power Plants
Coal Power Plants



BUSINESS UNITS

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Agriculture

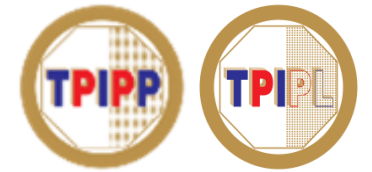
Organic Fertilizer
Biological Supplements
Health Care Products



Encapsulant Film

EVA film for Solar Panels
Encapsulant for LCD TV
Wrap Film

Construction Materials



Our many firsts in Thailand:

Diversify in all types of mortar (e.g. Non-shrink, sulfate-resistance and etc.)

One of the first hydraulic cement

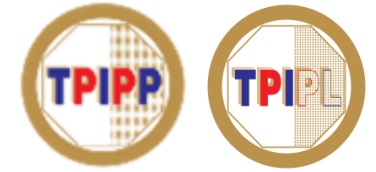
First and only stucco producer.

First and only cement producer that uses MSW as an alternative fuel

Linked quarry to production facility via conveyor belt saving 3.03m litres of diesel per year, and produce 1.07m kWh of electricity.

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Construction Materials



Our many firsts in Thailand:

First and only producer to use fly ash to save cement in the process

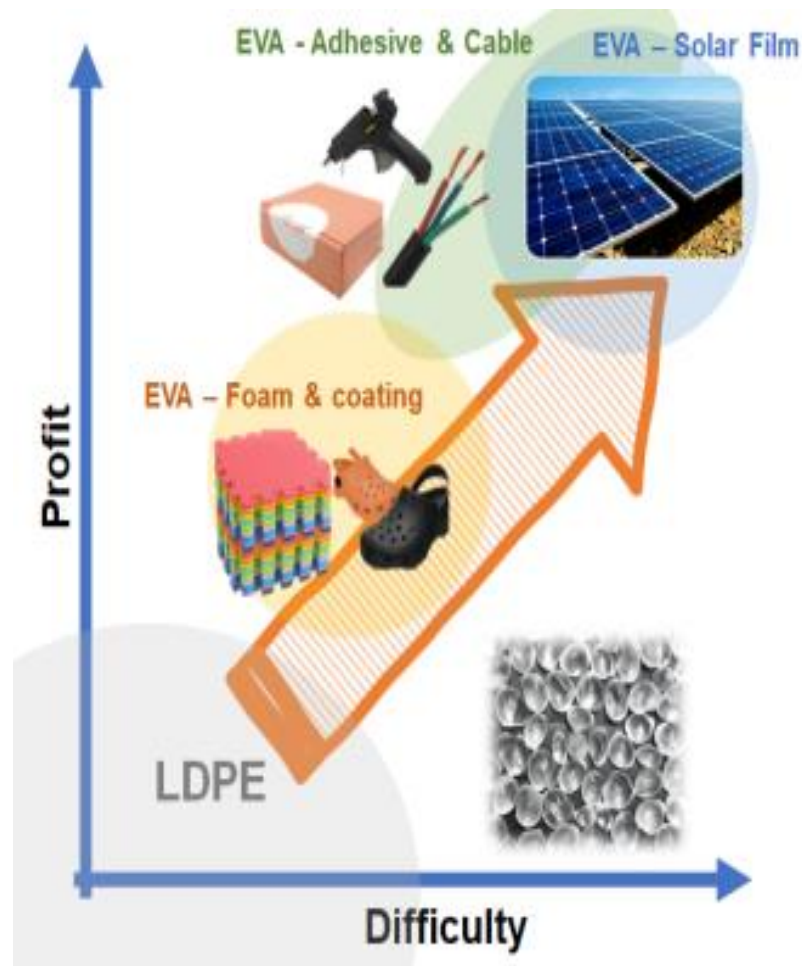
First fire propagation(resistance) fiber cement producer in Thailand

First and only furniture board and door frame producer from fiber cement

First and only fast drying and odorless paints for walling and other surfaces

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Specialty Polymers and Chemicals



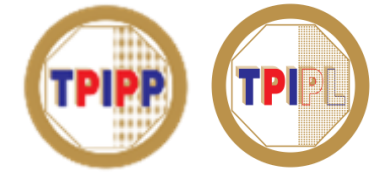
Programmed for launch 2023/2024

ZV1055 – High speed hotmelt

- Roughly 10% premium over top hotmelt adhesive grade; a potential **EBITDA** increment of **15-20 million baht** annually at current prices.
- Few producers and low threat from new Chinese capacities; thus, **more sustainable profit**.

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Renewable Energy - Focusing on MSW



Our many firsts in Thailand:

First power plant to use zero-waste policy (use up all incoming waste)

First power plant to use MSW (municipal solid waste), not only IW (industrial waste)

First power plant to use segregation method

First and only WTE SPP (more than 10 MW capacity)

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Agriculture & Health Care Products



Agriculture products are innovations

Bio Knox is a high alkaline powder/drink that can stunt viral growth and propagation

ProVita is a probiotic drink (*Lactobaccillus paracasiae*) produced with a in-house **probiotic microencapsulation technology (PET)** that prolongs the shelf life of the formulation for up to four months at room temperature

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Current Projects towards Carbon-Neutral



-Switching from Coal to MSW for Clinker Production (2021-2023)

-Phasing out of remaining diesel truck and switching to EV trucks for mining activities (2022-2025)

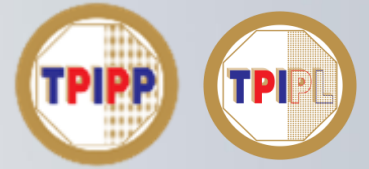


-Phasing out of Coal and switch to MSW for Power Plant operations (2022-2025)

-Start operation of VSPP Power Plants around the country (2024)

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TPIPL Group to the community – making a visible difference



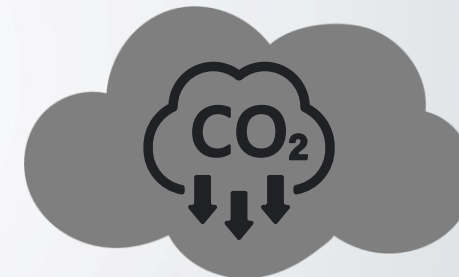
WTE



1 Ton MSW

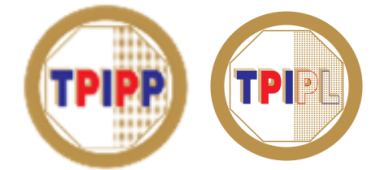


2.32 Ton



| CO ₂ eq | TPIPL | TPIPP | Waste | Total |
|--------------------|---------------|------------|------------|--------------|
| 2021a | -8.72m Tons | 1.74m Tons | 2.19m Tons | - 6.96m Tons |
| 2024e | - 8.08m Tons | 8.16m Tons | 4.68m Tons | .08m Tons |
| 2026e | - 8.03 m Tons | 9.75m Tons | 5.37m Tons | 1.72m Tons |

TPIPL Group to the community – making a visible difference



Nakorn Ratchasima Landfill in 2017...



... in 2022



Chonburi Landfill in 2017...

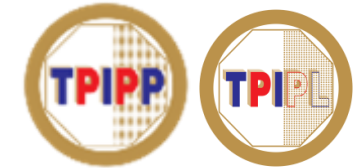


... in 2022



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Citations Received in 2022



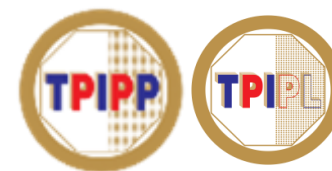
Citations Garnered in 2022

- TPIPL SET's Thailand Sustainability Investment (THSI) List
- TPIPP SET's Thailand Sustainability Investment (THSI) List
- TPIPL Four Star Corporate Governance Rating
- TPIPP Four Star Corporate Governance Rating
- TPIPL in Thaipat Institute's Emerging List of 2022
- TPIPP in Thaipat Institute's ESG100 Securities Group out of 851 listed securities assessed
- TPIPL Most Socially Responsible Conglomerate – Thailand 2022 by the Global Economics
- TPIPP Best Product Innovations for Sustainable Development – Thailand 2022 by the Global Economics
- Mr. Prachai Leophairatana - Asia's Greatest CEO 2022-2023 by AsiaOne Magazine
- TPIPL Asia's Greatest Brands 2022-2023 by AsiaOne Magazine
- TPIPP Asia's Greatest Brands 2022-2023 by Asia One Magazine



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Management Straddling Generations – Concrete Succession Plan



Mr. PRACHAI LEOPHAIRATANA
Chief Executive Officer



Mr. PRATEEP LEOPAIRUT
President



Dr. PRAMUAN LEOPHAIRATANA
President



Mr. PAKORN LEOPAIRUT
President TPIPP

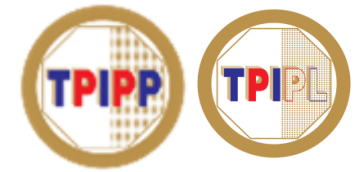


Mr. PAKKAPOL LEOPAIRUT
Executive Vice President



Dr. PORAKRIT LEOPHAIRATANA
Executive Vice President

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End of Presentation
Thank You