

MARKET SPOTLIGHT: SOUTH KOREA



Jung Choi

Regional Manager, Asia Pacific
Center for Resource Solutions (CRS)



Ms. Soyoung Jang

Sr. Manager, Energy Collaborative & Consortium
SEMI



Lorenzo Mancini

Head of Power Sales and Marketing
Peak Energy



Zhijia Chong

Head of Energy Policy, APAC
AWS

Tuesday, 21 April 1:30-2:15 PM



SEMI Decarbonization Pathway

‘A Call to Action’

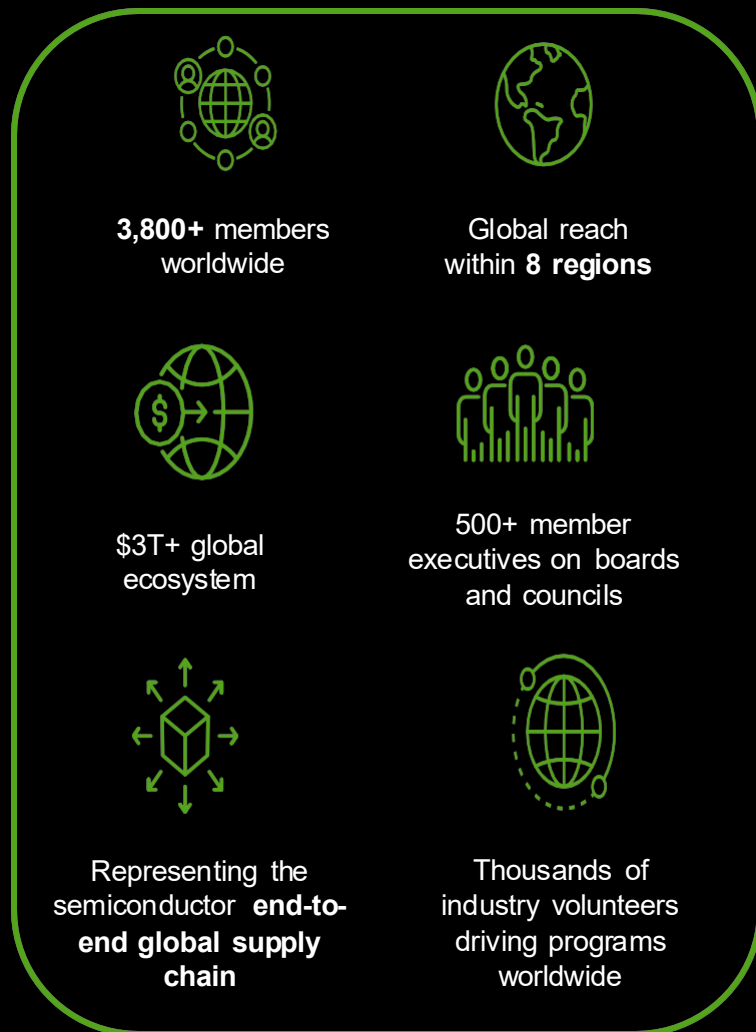
April 21 2026

SoYoung Jang, SEMI

Sr. Manager, Energy Collaborative and Consortium

CONNECT - COLLABORATE - INNOVATE - GROW - PROSPER

SEMI – Global Structure: Empowering the Chip Industry



SEMICON
KOREA

SEMICON
CHINA

SEMICON
SOUTHEAST
ASIA

SEMICON
WEST

SEMICON
TAIWAN

SEMICON
INDIA

SEMICON
EUROPE

SEMICON
JAPAN

SEMIEXPO
VIETNAM

Scope 1 Emissions

SCC Ambition

43% reduction from 2019 levels by 2030 (per IPCC)

Scope 2 Emissions

LCE transition: *LCE : Low Carbon Energy
 - 100% in EU & Americas by 2030
 - 100% in APAC by 2040 | 70% by 2035

Transparency

>95% of members report

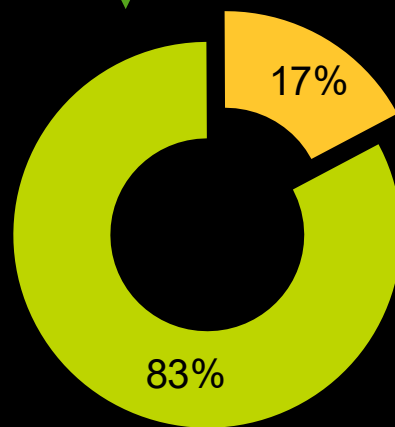
- 2027: Scope 1 & 2
- 2028: Scope 3

Develop & implement a methodology and reporting framework for PCF

ENERGY COLLABORATIVE

Industry's LCE Needs

Unlock multi-GW scale commitments to capacity deployment and adoption- South Korea, Taiwan, Japan, Malaysia and Singapore



- **There is a >40 GW gap** for LCE by 2030 in APAC to achieve semiconductor industry Net Zero commitments
- **More than \$70B** of low-carbon energy capacity needs to be installed in the next 6 years in the APAC region

83% of our industry emissions is from electricity generation

■ Emissions from Electricity Generation ■ Non-Electricity Related Emissions

Source: Transparency, Ambition and Collaboration SEMI SCC and BCG report 2023.

SCC & EC



Energy Collaborative (EC) Government Roundtables

Convene key government stakeholders to drive targeted policy improvements for scaling renewable energy supply and improving price competitiveness at speed and scale toward a credible 2030 roadmap.

Region and the respective dates of roundtables

Korea



2026 Apr 1

2026 Feb, 11
2025 Jun, 20
2025 Feb, 21
2024 Nov, 25
2024 Jun, 04

Japan



2026 June 18

2025 Dec, 17
2025 Jun, 12
2024 Dec, 10
2024 Jun, 06

Taiwan



2026 Apr 29

2025 Dec, 08
2025 Nov, 20
2025 Apr, 23
2024 Aug, 16

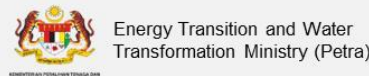
Singapore



2026 Apr 24

2025 Oct, 02
2025 May, 08
2024 Oct, 08

Malaysia



2026 May 5

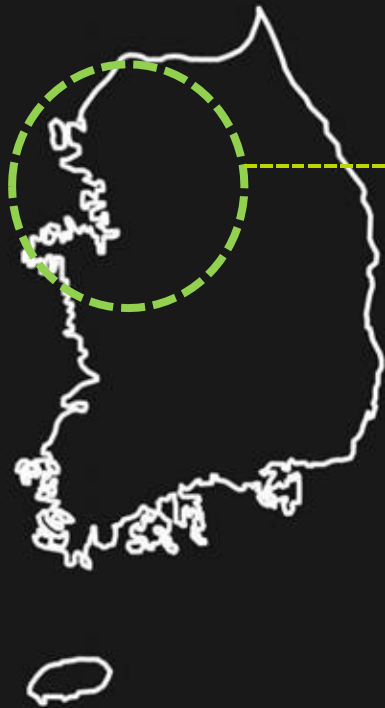
2025 May, 21
2024 Oct, 11

Accelerating multi-GW scale low-carbon energy (LCE) builds in APAC

South Korea Market

1 Expanding RE Supply at Speed and Scale

Seoul Metropolitan Area – Gyeonggi Province



- ~25% of South Korea's electricity demand, driven by the semiconductor and electronics industries
- Critical to scale RE near demand centres by 2030, as current resources are distant from supply chains and grid expansion takes time



- **Public-Led Model** to designate RE zones:

- ✓ Agri-PV
- ✓ Floating solar (reservoirs, inland water)
- ✓ Rooftop and building-integrated solar (BIPV)
- ✓ Unused spaces

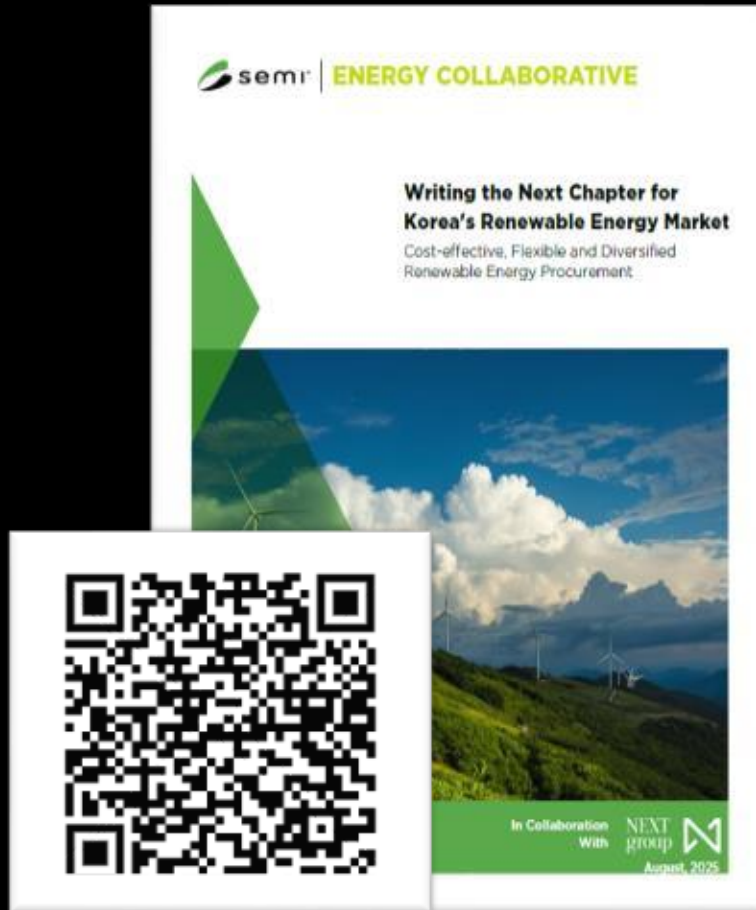
Signed on November 11, 2025

Gyeonggi–Semiconductor Renewable Energy Partnership MoU

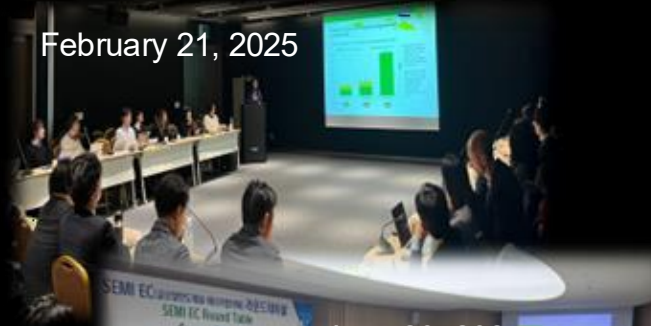
South Korea Market

2 Cost-Effective RE Procurement Options

Deploying Utility Green Tariff (UGT)



February 21, 2025



June 20, 2025



August 26, 2025



April 1, 2026

Credible UGT Design Recommendation

1. Additionality and Policy Certainty
2. Transparency and Traceability
3. Flexible and Cost-Competitive Contract Structure
4. Certification & International Standards Alignment
5. GHG Reporting Recognition

Amazon is one of the largest corporate purchaser of RE globally

- Powering a Sustainable Future

Climate Pledge

Net-zero carbon by 2040



Renewable Achievement

100% renewable electricity in 2023, 7 years early



Global Leadership

700+ projects worldwide, exceeding 40GW capacity



Energy Innovation

Investing billions in nuclear energy technologies



BloombergNEF recognized Amazon as one of the world's leading corporate purchasers of carbon-free energy in 2025, and the most active buyer in Europe and Asia Pacific.

Committed substantial investment in South Korea

- South Korea is a strategically important market for Amazon Web Services (AWS)
- At the 2025 APEC Summit, our Global CEO met with President Lee and committed an additional 7 trillion KRW in AI and cloud infrastructure
- Cumulative investment of over 12.6 trillion KRW by 2031 - the largest investment by a cloud company in South Korea

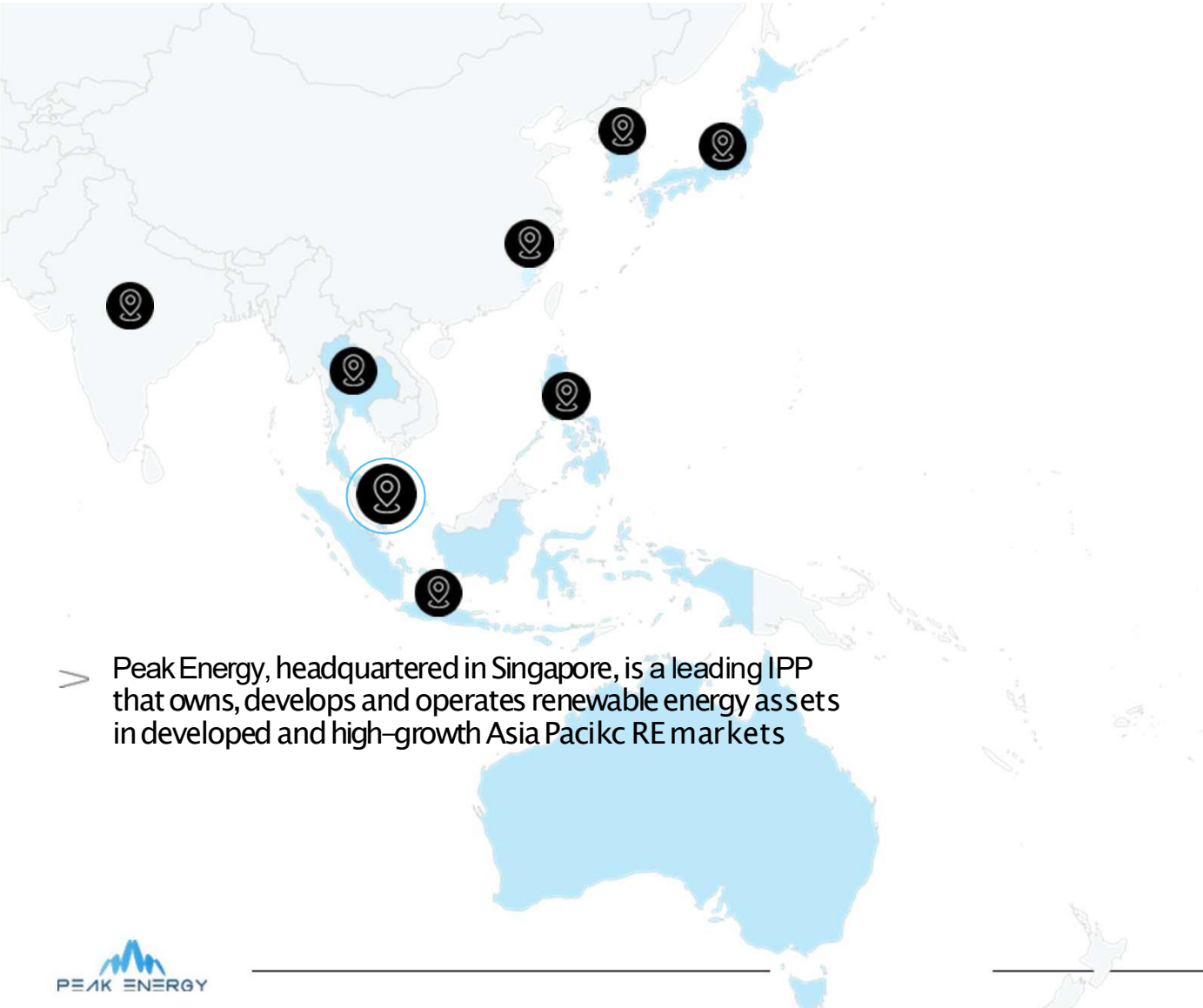




PEAK ENERGY

> Peak Energy company presentation

For discussion purposes only.
Materials provided on request.
Strictly confidential & trade
secret.



> Peak Energy, headquartered in Singapore, is a leading IPP that owns, develops and operates renewable energy assets in developed and high-growth Asia Pacific RE markets



- 130 people
across APAC
- 300 MW
PV capacity
in operation / construction
- 313 MWh
BESS capacity
delivered
- 5.5+ GW
Near-term pipeline
- 50+
site locations

 Offices

 Active markets

Our power is our people.

Energy Pioneers
Seasoned experts with proven track records,
our management team are renewable energy
pioneers in their respective markets.



Gavin Adda

CEO
Singapore

Pioneering leader in
renewables who has led
over 200 renewable
projects across 10 Asian
markets.



Geoffrey Jahnke

COO
Singapore

World-class expertise in
project finance and
execution, overseeing
commercial aspects of
the business.



Lorenzo Mancini

Head of PS&M
Singapore

Renewables pioneer with
over 20+ years of B2B
commercial and BD
experience across Asia.



Suan Hwee Song

Head of UPP Development
Singapore

Industry heavy-weight
with over 20 years of
international experience in
infrastructure investment,
private equity, project
finance and RE
development.



Sanoj James

Head of Engineering
Bangalore

Technology leader with
over 1GW of generation and
asset management under
his belt during his 20+
years career across Asia.



Martin Zillmann

Head of Project Delivery
Bangkok

Martin has dealt with
every stage of project
execution - from
negotiation to quality
assurance - over a 20+
year career.



Peak Energy is backed by Stonepeak

Stonepeak is the largest independent infrastructure manager, with a 13-year track record investing across the global infrastructure landscape

This means our customers gain financial certainty, reliable delivery, and long-term support.

\$84bn

AUM across diversified infrastructure, energy transition¹ and real estate

~330

Global staff across 11 offices

86

Total investments across 9 funds



¹Details on Stonepeak's energy transition investments on next page

Stonepeak invests in renewables infrastructure globally.



300 MW of solar in operation or construction



1st OSW project in Taiwan



Largest OSW Portfolio in APAC-ex China



Largest OSW Farm in the US

200+ Projects

Under Management by Stonepeak Renewable & Energy Transition Portfolio Companies.

~18.4 Gross GW

In Operation and Development Across Stonepeak Renewable & Energy Transition Portfolio Companies.



KOREA

1.7 GW



JAPAN

2.3 GW



INDIA

1.4 GW



TAIWAN

3.3 GW



UNITED STATES

3.9 GW



EUROPE

702 MW



AUSTRALIA

3 GW

LATIN AMERICA

2.0 GW

Notable Peak Energy projects.

KYUSHU
JAPAN

Type: Utility-scale
Capacity: 30 MW
Status: In operation



JEOLLANAM-DO 2
SOUTH KOREA

Type: Utility-scale, DG, and BESS
Capacity: 74 MW and 22 MWh
Status: In operation



KAGAWA
JAPAN

Type: DG (Solar Carport)
Capacity: 2 MW
Status: In operation



GYEONGSANGNAM-DO
SOUTH KOREA

Type: DG (Rooftop)
Capacity: 0.8 MW
Status: In operation



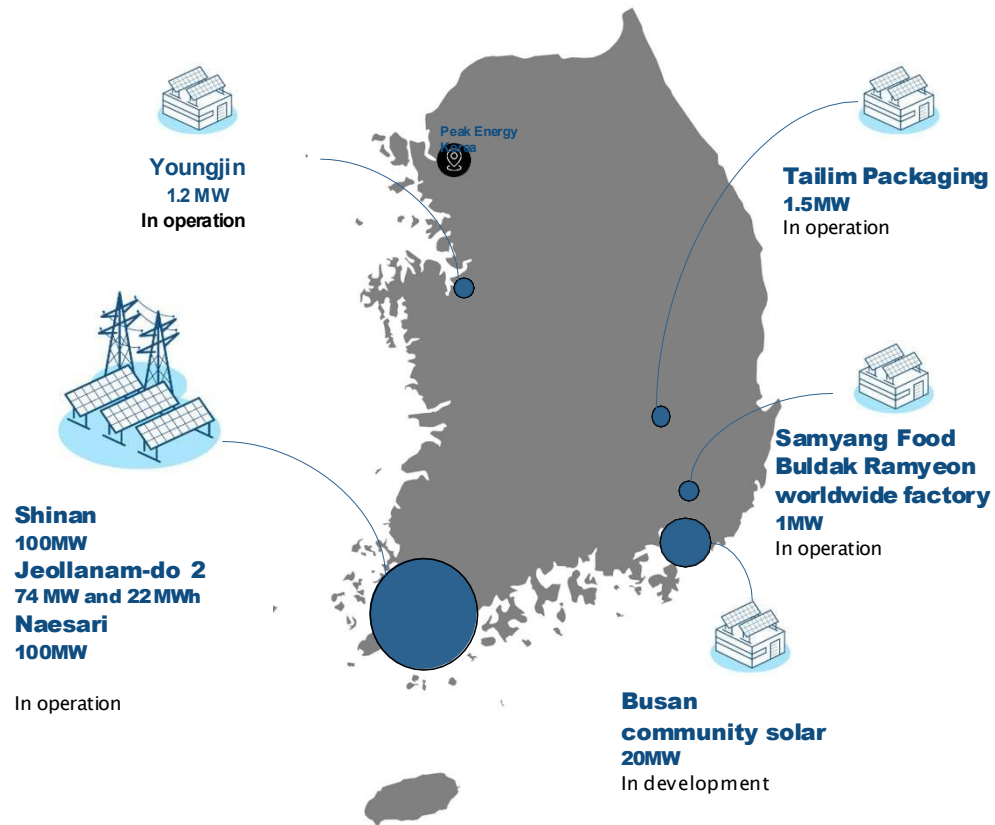
JURONG
SINGAPORE

Type: DG (Rooftop)
Capacity: 20 MW
Status: In operation



> Peak Energy in Korea – Utility Scale + Rooftop

Peak Energy owns 3 of the biggest Utility scale solar in the country and is delivering key rooftop projects with leading manufacturing companies.



- Largest Utility scale solar project in Korea: started its commercial operation in October 2022



- Youngjin Project February 2026

> They trust us already.



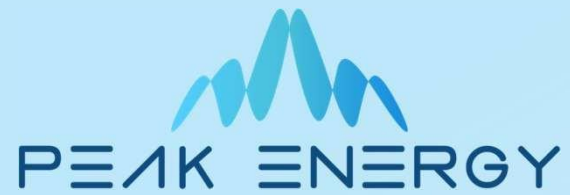
Customers

Trusted by leading regional and global corporates across utilities, chemicals, automotive, and the food industry.
Multi-market execution with standardized PPAs and flexible sourcing structures.
Clear decarbonization reporting aligned with RE100 and corporate sustainability targets.

Partners

Collaborations with Tier-1 technology and EPC partners to deliver high-quality and bankable projects.
Co-development model supports multi-country scale and accelerated COD.
Proven execution validated through joint ventures and financing partnerships.





Your expert renewables partner in Asia.



Singapore

15A Duxton Hill
Singapore 089598

Tokyo

PMO Hamamatsucho III 7F
10-6, Hamamatsucho 2-chome,
Minato-ku,
Tokyo 105-0013

Seoul

5F NIA building,
14 Cheonggyecheon-ro, Jung-gu,
Seoul, 04520

Bangkok

2 Silom Edge, 10th Floor, Silom Road,
Suriyawong, Bangrak, Bangkok 10500

Jakarta

Palma Tower 20th Floor
Jl. RA Kartini II-S Kav.6 Sektor 2
South Jakarta, DKI Jakarta 12310

Manila

Tower 2, Unit 708, 26th St. Cor. 9th Ave.
High Street South Corporate Plaza, BfIC
Taguig City, 1634

Taipei

1-11 Songzhi Rd.
Xinyi District
Taipei City 110

Bangalore

Brigade Metropolis, Sumit A – 3rd Floor
B-9, ITPL Main Rd, Brigade Metropolis,
fiarudachar Palya, Mahadevapura,
Bengaluru, Karnataka 56004





PEAK ENERGY

> Thank You