



WPC
ENERGY

The World Forum for
Energy Transformation

ÖGEW / DGMK Autumn Event 2025

Security of supply through energy storage technologies

20-21 November, Vienna



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The World Forum for
Energy Transformation

Since 1933



WPC (World Petroleum Council) ²⁰¹⁷



WPC Energy

Expanded perspective to cover the whole energy industry

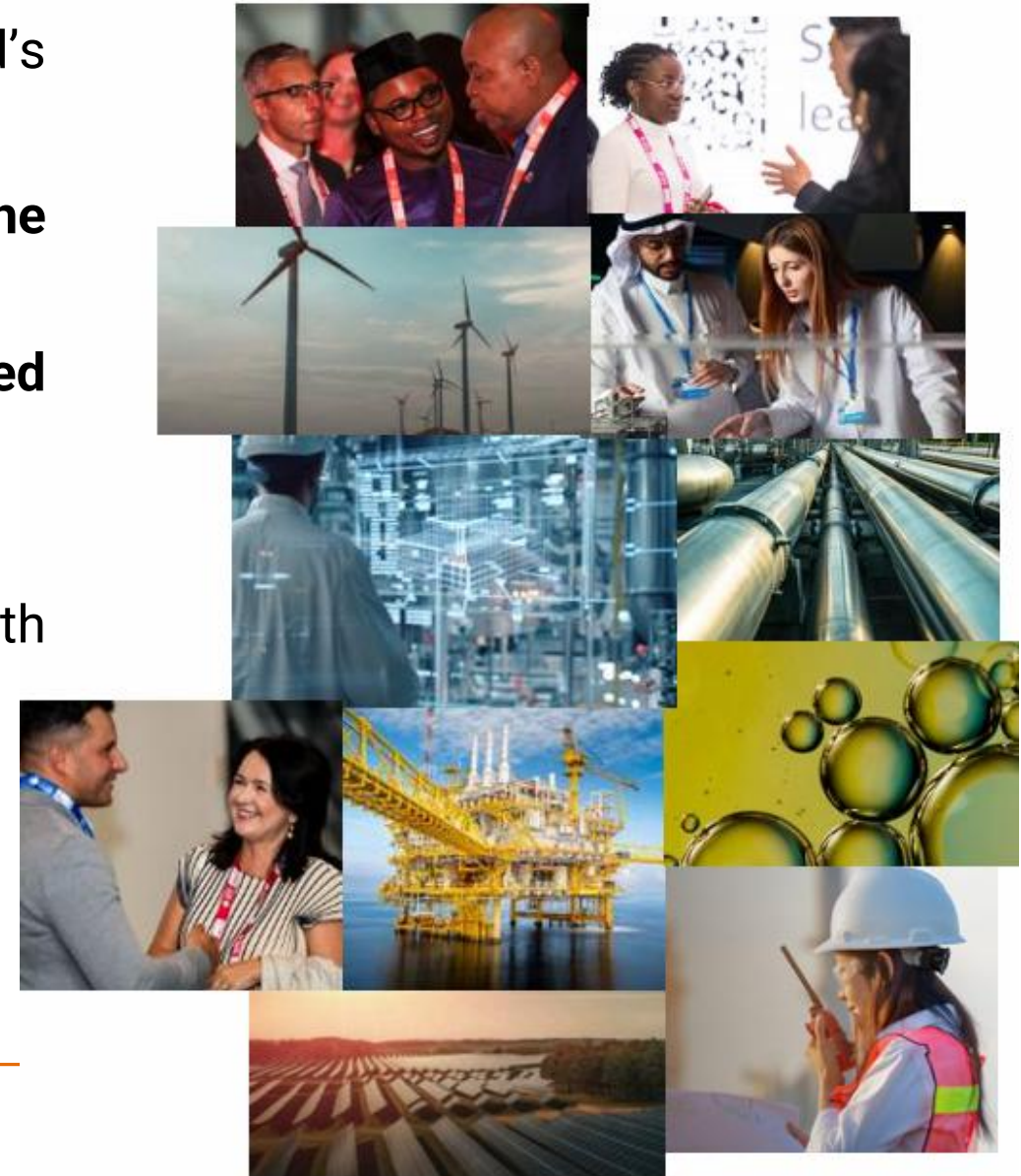
WPC Energy – The World Forum for Energy Transformation

Promotes sustainable management & use of the world's energy resources for the benefit of all

Facilitates dialogue among **stakeholders** across the **energy system**

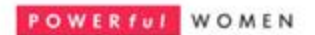
Champions a realistic understanding of what is required for an effective energy transformation

- Non-advocacy, non-political, UN Accredited NGO with charitable status in the UK
- **Not for profit**
all surpluses are dedicated to **legacy projects**
- **60 National Committees**
>96% of consumers & producers



WPC Energy - Collaboration

We are proud to cooperate closely with a wide range of stakeholders across the energy sector



8th WPC Energy Youth Forum, 22-23 October 2025, Kuwait

ORGANISERS



WPC ENERGY
The World Forum for Energy Transformation



وزارة النفط
Ministry of Oil
دولة الكويت | دولة الكويت



شركة نفط الكويت
Kuwait Oil Company
أحد شركات مؤسسة المصالح الحكومية
A Subsidiary of Kuwait Petroleum Corporation



8th WPC Energy Youth Forum | Kuwait | 22 & 23 October 2025

Secretariat
To: Secretariat
Cc: Secretariat
Bcc: email@mail.matchesfashion.com; zekenovaanel@gmail.com; evgeny@posflora.com; aibraev@kbtu.kz; b.sarsenbekuly@kbr; zhanakazbayeva@gmail.com; a.utenyazov@kazenergy.com; taimagambetov@kazenergy.com; beenik.kbtu@gmail.com; +6

Dear Industry Colleague

Will you be attending the premier global event? Under the esteemed patronage and in the presence of Young Professionals as catalysts for change within the evolving energy sector and provide opportunities for intergenerational networking. At the heart of the Youth as Changers, Smart and Sustainable, Strategic Leaders! These thematic blocks include data analytics.

DIGITAL COMMS

ter of Oil, and generation of energy leaders with the tools and platforms

WEBSITE

Kuwait's role in the global energy sector

Kuwait plays a significant role in the global energy sector. As one of the world's leading oil producers, with oil reserves, Kuwait is a key member of OPEC, where it actively participates in shaping the country's energy policies and production policies.

SOCIAL MEDIA

You Can Register For the **8TH WPC ENERGY YOUTH FORUM** Through the Ministry's Website

The WPC Energy Youth Forum is a vital platform for empowering the next generation of energy leaders. It fosters dialogue, innovation, and collaboration between young professionals and industry veterans.

IN PERSON

HIS EXCELLENCY MINISTER OF OIL, KUWAIT

We are proud to announce that the Kuwaiti National Committee, a member of WPC Energy since 1994, will host the 8th WPC Energy Youth Forum, scheduled to take place on October 22-23, 2025.

As the largest gathering of young professionals in the global energy calendar, this prestigious event will underscore the State of Kuwait's significant contributions to the energy sector and its steadfast support for future industry leaders—an emphasis that aligns with the strategic objectives outlined in Kuwait Vision 2035.

PRESS RELEASE

EMPOWERING THE FUTURE
8th YOUTH FORUM WPC ENERGY
KUWAIT 19-23 OCTOBER 2025

Under the Patronage and Attendance of His Excellency the Minister of Oil – Kuwait
Tarek Suleiman Ahmed Al-Roumi

We are honored to invite you to attend the 8th Youth Forum – WPC Energy under the theme:
Empowering the Future
Empower. Innovate. Transform.

Empowering the Future: Connecting Young Professionals, Ideas & Knowledge

25th WPC Energy Congress – 26-30 April, Riyadh

25th WPC Energy Congress in Numbers

50,000
sqm Exhibition

25,000
Attendees

1,000
Companies

500
CEOs

100
Ministers

800
Speakers

Occidental chief Hollub named winner of Dewhurst Award

Hollub becomes first woman to be granted the honour, which will be presented during WPC Energy Congress in 2026

upstream



Congress Experience

Women in
Industry

Executive
Programme

High Level panels incl. Plenaries,
Keynotes Sessions, CEO Panels,
Ministerial Roundtables

Technical
Programme

Including Forums, Keynote
Sessions & Digital Poster
Presentations

Saudi Keynotes

Official Welcome and Keynotes by
Saudi Energy Leadership

WPC Energy
Council Meeting



Opening
Ceremony



Exhibition

Sustainability
Pavilion

Social Events

Welcome Reception / Saudi Arabia Night /
Youth Evening / Closing Ceremony



Side Events

E.g.: IEF Ministerial, Islamic League, and
other selected organisations



Parallel Events

Student Programme, Localisation
Forum, B2B Presentations

Young
Professionals
Programme

Creating an Intergenerational Dialogue

Post Event
Technical
Tours



Pathways to an Energy Future for All

Technical Programme

Future Pathways to



Block 1
**Primary
Energy Supply**



Block 2
**Energy
Infrastructure**



Block 3
**Energy Fuels
and Molecules**



Block 4
**Energy
Technologies**



Block 5
**Energy
Leadership**

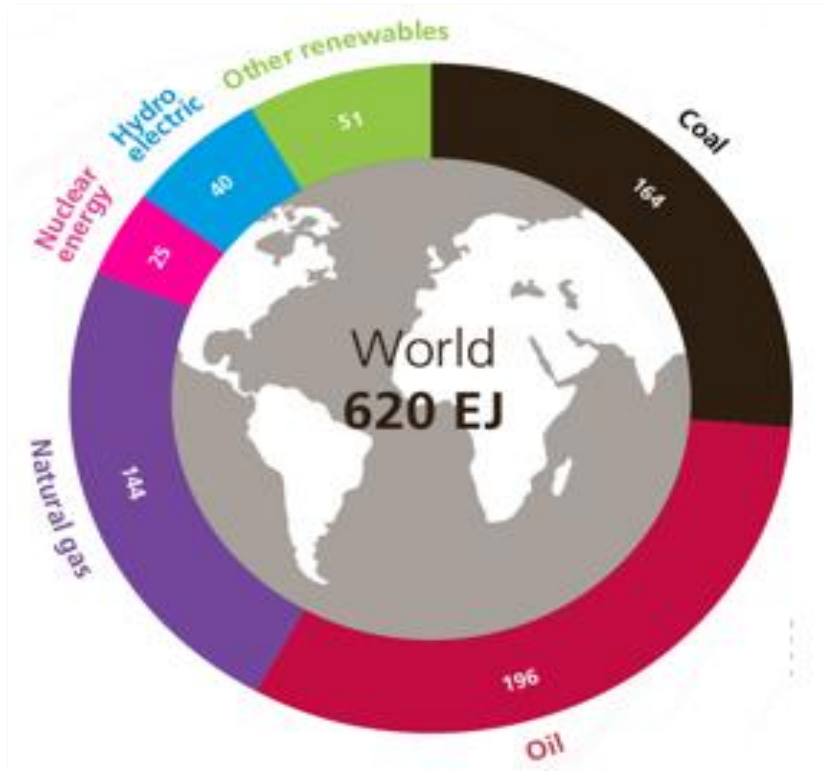
Synergy Pavillion

Young Professionals, Women in Industry, Circular Carbon Economy, Social Responsibility

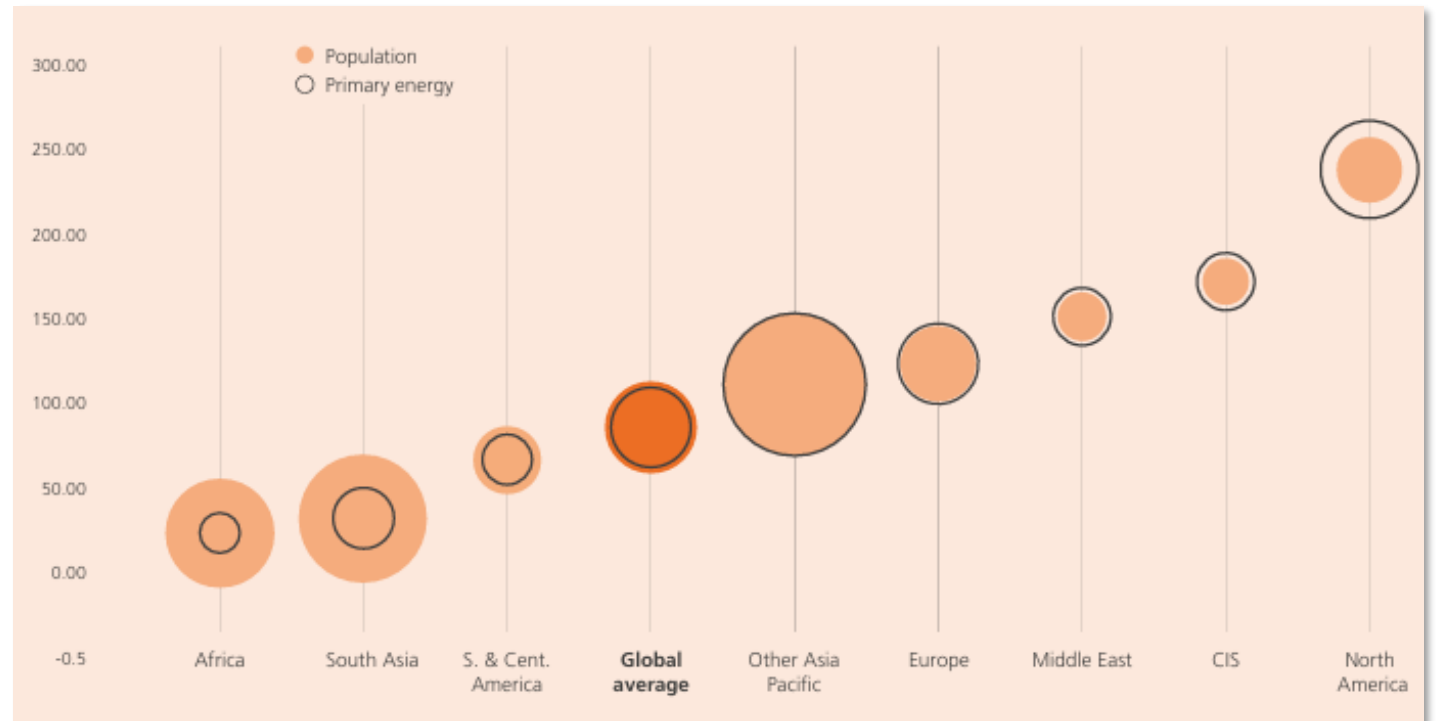
Global Energy Security in a Transforming Landscape

Burcu Gunal
Director General
WPC Energy

Global Energy Mix



Primary Energy Consumption/Population (GJ/person)



2024 Oil consumption: 103.75 mb/d
Gas consumption: 4.2 tcm

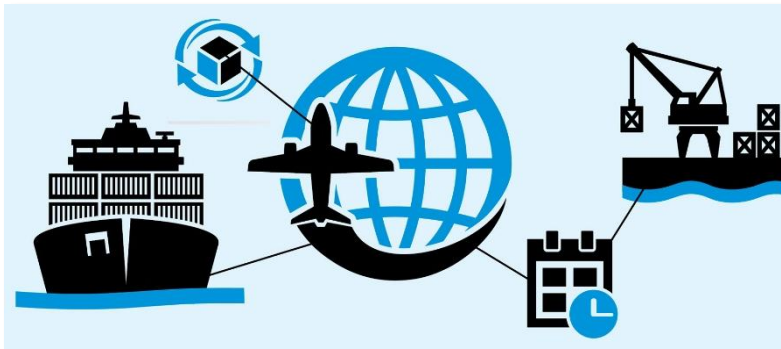
Increasing trend - energy demand
new record for the 2nd consecutive year

Fossil fuels account for 82% of the global energy supply mix

Global challenges



- **Growing new energy generation –**
not fast enough to meet demand growth



- **Climate goals –**
decarbonisation & Net 0



- **Volatility in pricing,
Trade concerns**

- **Geopolitical instability**



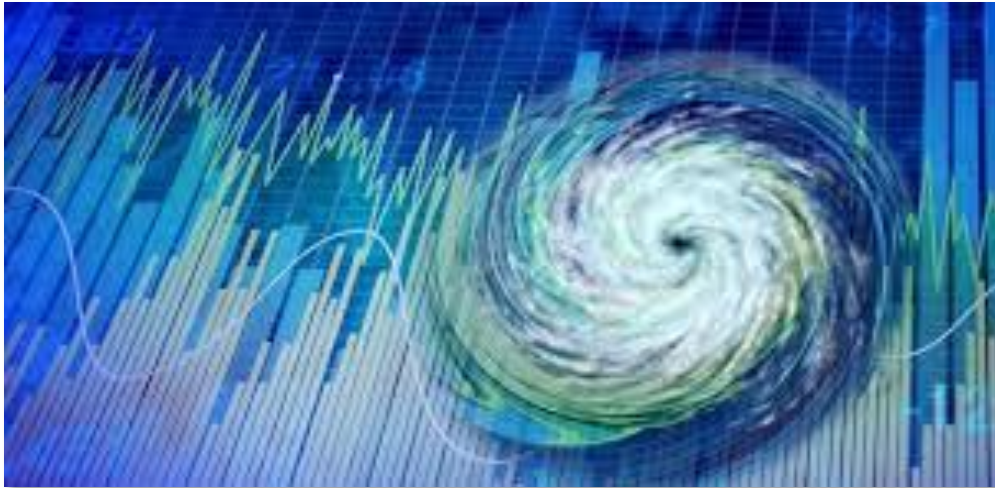
- **Supply chains disruptions**
*(Supply/demand, lack of investments,
storage capacity, HR)*

- **AI & Digitalisation
Tech. & Innovation**

Global Energy Security in a Transforming Energy Landscape

- The world's energy system :

Transition & Turbulence



Urgent, complex, interconnected

- New technologies are entering the system at speed
- Renewables set new records for deployment in 2024
- Oil, natural gas & coal consumption, and nuclear output, reached record highs
- Since 2019 demand for coal has grown 50% faster than the next fastest growing fossil fuel, natural gas, a key reason why energy-related emissions have continued to grow.

IEA

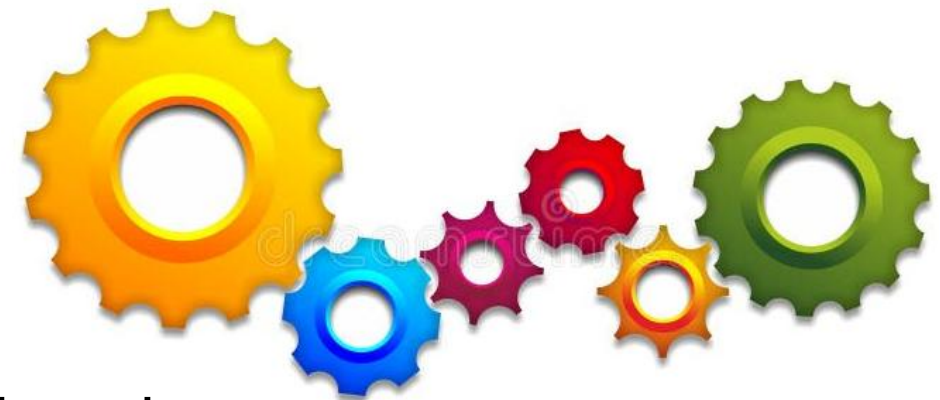
In a volatile world, energy security takes centre stage

Energy Security

- Stable access to reliable and affordable energy
- Resilience to shocks – whether they're geopolitical, environmental, or technological
- Flexibility in supply chains
- **Alignment with sustainability goals**
- **Ability to integrate renewable resources** without compromising reliability
- **Flexibility to handle extreme variability.**

Rebalancing act :

- traditional and new sources of energy
- national interests and global cooperation
- short-term needs and long-term climate commitments.



Energy security is being fundamentally rewritten by global transformation dynamics

The Changing Energy Landscape

- **Profound transformation**

Shift toward low-carbon technologies

- **Oil and gas continue to play a critical role** in global supply

What's changing is the context: expectations around emissions, social license to operate & integration with new systems

- **Storage technologies, digitalization & decentralised systems**

Emerging as key enablers energy access & resilience.

- **Renewables expand rapidly**

Defining feature of today's energy landscape:

Coexistence of Traditional and New Systems



The concept of security of supply evolves to reflect not just physical availability, but also technological and structural readiness

Energy Storage

- Renewable penetration alone does not guarantee stability
- **Storage: backbone of energy systems**
- Without storage, the decarbonisation timeline is slowed, costs rise, and resilience falls
- Storage links demand - supply, and volatility - reliability
- As energy systems become more interconnected, so too must our policy and planning frameworks.
- Short-term reliability and long-term planning
- It changes how we build networks, invest & what kind of shocks we can withstand
- The decades ahead will demand coordination between policy, finance, & technology more than ever



Storage is the key integrator of the transformation

Global Energy Storage Market (2025–2040)

- 1. Explosive Growth & Scale-Up**
- 2. Diversifying Demand & Emerging Markets**
- 3. Technological Innovation & Cost Pressure**



5 Strategic Implications for Energy Security

- 1. Storage becomes the central pillar of energy security**
- 2. Countries must diversify storage portfolios, not chase a single technology**
- 3. New storage demand centres will reshape global energy geopolitics**
- 4. Innovation and digitalisation become critical security tools**
- 5. Policy must shift from “supporting storage” to “planning storage”**

A Call for Strategic Balance

- Global energy security today is about **integrating, adapting and managing risk, while enabling innovation, and delivering reliability alongside sustainability, across a diverse energy ecosystem.**
- Systems that are not only efficient, but equitable and enduring. That will require balanced strategies, smart investments, and **global cooperation.**

- **Energy security depends on:**

Cross-Border Collaboration, Transparent Markets, and Knowledge Sharing



Global Coordination and Collaboration is key

Conclusion

- **A stable and reliable energy system** is the foundation for any successful transformation.
- **No one-size-fits-all**
- **Era of energy addition**
- **Energy security in a transforming world depends on our ability to store** energy reliably, flexibly, and at scale.

Storage is no longer a supporting technology. Whether through batteries, thermal storage, pumped hydro, hydrogen, or new long-duration systems, storage gives countries the flexibility to manage volatility, integrate new energies, and ensure uninterrupted energy for homes, industries, and critical infrastructure.





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Thank you
