



EnerGeo Newsletter

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ISSUE

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Karl Farrow
- CEO CeraPhi® Energy

With the UK elections now behind us and the US election race heating up I thought I would call this issue of EnerGeo, "Geothermal levelling up" and reflect on how the election outcome affects development and support for CeraPhi's geothermal development plans and potentially other players in the sector, whether they are focused on open, close or advanced geothermal.

UK Election Race

It became apparent, from the polls, that there was only one horse in the race and "The Conservatives" horse was lame. They demonstrated a weak run with little commitment to prior climate mandates, leading a somewhat cautious approach to large-scale public spending on renewable energy. Although the administration had made political claims to achieve net-zero emissions by 2050 supporting a mix of energy sources, including nuclear, wind, and solar, the last 2 years with 4 changes of leadership has pulled the rug from under the feet of many technology start-ups.

Sending mixed messages on the position of oil, gas and nuclear, whilst relinquishing on previous commitments, had a direct effect on the stability of investors backing new innovation and technology. Added to this was the rolling back previous plans for scrapping the sale of fossil fuel cars in 2030, all things which slow down growth in the sector.

CEO Message

Geothermal Levelling Up...

Prime Minister Starmer

As our newly elected Prime Minister, Keir Starmer has articulated a strong commitment to tackling climate change through substantial investments in renewable energy and infrastructure.

Labour's Green Industrial Revolution aims to achieve net-zero emissions by 2030, with significant focus on green technologies and job creation.

Prime Minister Starmer's actions could include:

1. ****Massive Public Investment****: Starmer is likely to support substantial public investment in renewable energy, including deep geothermal energy. This could involve large-scale funding for geothermal R&D and deployment, which is great news for geothermal start-ups and companies seeking to scale-up in the space.
2. ****Aggressive Climate Policies****: Labour's ambitious climate policies could include specific targets for geothermal energy capacity, integrated into a broader strategy for transitioning to renewable energy and increased decarbonisation through the direct use of heat.

3. **Support for Innovation**: Encouraging innovation and the development of new geothermal technologies could be a priority, with incentives for private sector participation and collaboration. This provides the opportunity for geothermal to get mainstream attention as it has under the Biden administration within the US.

4. **Infrastructure Integration**: Integrating geothermal energy projects into broader infrastructure plans could stimulate significant logistical and financial support, facilitating rapid deployment. This is great news for developers and should help close project investment and simplify project development red tape.

US Elections Race

President Biden

Biden has made climate change a central theme of his administration. His \$2 trillion climate plan aims to transition the United States to a clean energy economy and achieve net-zero emissions by 2050. The Biden administration's policies include substantial investments in renewable energy technologies, and while solar and wind have received significant attention, there is also recognition of the potential of geothermal energy.

Biden's actions could include:

- Increased Funding and Research**: Biden is likely to increase federal funding for research and development (R&D) in geothermal technologies. This could involve grants and incentives for private companies and research institutions to develop and scale deep geothermal systems.
- Regulatory Support**: The Biden administration could streamline regulatory processes to accelerate the deployment of geothermal projects. This might include simplifying permitting processes and providing clear guidelines for environmental assessments.



3. **Incorporation into Infrastructure Plans**: Integrating geothermal energy projects into broader infrastructure initiatives, such as the Bipartisan Infrastructure Deal, could encourage significant funding and logistical support for geothermal developments.

Ex-President Trump

During his presidency, Donald Trump's energy policies were largely focused on fossil fuels, with substantial support for coal, oil, and natural gas industries. His administration rolled back several environmental regulations and reduced funding for renewable energy programs. Geothermal energy did not receive sufficient attention or support during his tenure.

Trump's actions could include:

- Fossil Fuel Dominance**: If re-elected, Trump is likely to continue prioritising fossil fuels, which would limit the development and scaling of geothermal energy. His administration might not provide the necessary regulatory and financial support needed for geothermal projects. A negative approach for geothermal more investment in oil and gas generally means less focus from oil and gas services businesses in supporting geothermal projects. This is due to the higher rates commanded in oil and gas, resulting in geothermal projects running into cost over runs and delivery delays.

2. **Market-Driven Approach**: Trump's approach to energy policy emphasises deregulation and market-driven solutions. This could mean that while there might be fewer regulatory hurdles, there would also be less direct government support or investment in geothermal energy. This could be good for well repurposing activities within geothermal well reuse area which forms a key part of CeraPhi USA development strategy.

3. **Limited Federal Support**: Without significant federal investment, the geothermal sector might rely more on state-level initiatives and private investments. States with strong renewable energy mandates might still pursue geothermal projects, but the overall federal support would be limited. This could lead to the rolling back of potential subsidies on projects that make a conventional geothermal approach less commercially appealing and more challenging to deliver.

Overall Conclusion

In evaluating the potential support for scaling deep geothermal energy from Kier Starmer, Joe Biden, and Donald Trump it is evident that:

Keir Starmer would likely offer the most robust support, with massive public investment, aggressive climate policies, and comprehensive integration into infrastructure plans, promoting geothermal energy as a key renewable resource. This is extremely positive for the developers of larger scale heat networks and power generation projects now beginning in the UK. Thus, building a positive and stable platform for investment and growth over the next few years.

Joe Biden is likely to continue to provide steady support through increased federal funding, regulatory facilitation, and public-private partnerships, positioning geothermal energy within a comprehensive clean energy strategy and continuing to build investor confidence in the USA market to invest in scaling geothermal projects.

Donald Trump would likely deprioritise geothermal energy, focusing instead on fossil fuels, resulting in limited federal support and reliance on market-driven approaches. This would be disastrous for geothermal, should regulations change, and subsidies be rolled back. Potentially this could break the current momentum and destroy investor confidence in the space.

Ultimately, the scaling of deep geothermal energy as a baseload power source is best supported under the leadership of Keir Starmer, and Joe Biden. However Trump could again throw a wild card in the mix derailing the momentum that conventional geothermal has gained in the USA over recent years under the Biden administration. Alternatively, the focus on oil and gas investment may help support the more unconventional closed loop approach of CeraPhi, through well repurposing, with the UK providing a stable basis for rolling out its large portfolio of heat network projects over the next few years.

Disclaimer: These are my views and thoughts, exploring the potential political effects from UK and US elections on geothermal and do not reflect in any way a political alliance to any party.

Global Update

New EU Report Highlights Untapped Potential of Geothermal Energy Across Europe

A new report published by the European Commission, titled “Geothermal Energy Resource Indicators for Member States” highlights the wide variability across European Union countries in tapping into geothermal energy resources. The report, which accompanies a recent EU policy push towards expanding the use of geothermal energy, examines the technical, economic, and policy conditions that dictate whether countries extract value from their geothermal energy resources.

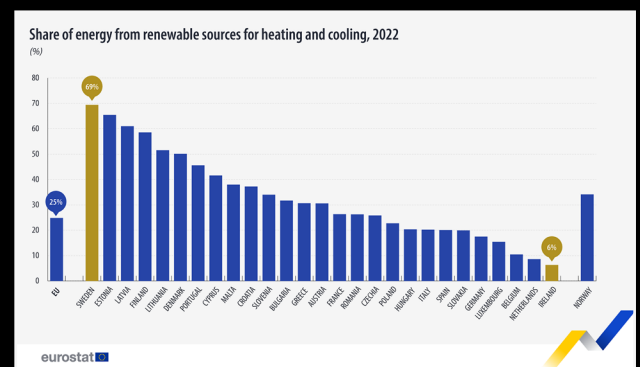
Most countries have not yet utilised their geothermal resource potential which the report indicates represents an opportunity to increase the use of indigenous energy sources in a sustainable way across the EU. According to the report, the production of electricity from geothermal energy is expanding in many European countries from Italy to Austria, Germany, Hungary, Portugal, Spain, and Sweden. Some countries such as Belgium and Ireland lacked domestic production until new power plants utilising excess heat from certain industrial operations went online.

The report points out examples of innovative ways that certain European countries are extracting value from their geothermal resources in addition to electricity production. This includes using geothermal heating/cooling systems with heat pumps or using waste heat to produce electricity.

According to the report, the countries with the most developed geothermal energy sectors in the EU include Hungary, Italy, Netherlands, Belgium, Austria, and Germany. However, the countries with the most untapped geothermal energy potential referenced in the report include Spain, France, Poland, Czech Republic, Sweden, Denmark, Hungary, Slovakia, Belgium, and the United Kingdom.

The report states the proportion of energy sourced from geothermal across the EU region likely needs to increase going forward, to comply with EU renewable energy targets, phasing out fossil fuels, and transitioning towards a more sustainable energy supply. This transition will involve both extracting further value from existing geothermal resources to recover energy from cavern heat and extraction of heat for industrial purposes, as well as exploring new geothermal resources such as low temperature heat recovery.

To read the full report click [here](#).



CeraPhi's Global Reach for Geothermal Solutions



In yet another remarkable milestone, CeraPhi Energy has expanded its global footprint by reaching all six populated continents with its innovative geothermal energy solutions. This achievement underscores CeraPhi's commitment to harnessing the immense potential of geothermal resources worldwide.

From exploring opportunities in Australia to assessing the feasibility of geothermal energy applications in Morocco, CeraPhi has demonstrated its capability to cater to the diverse energy needs of various regions and cultures.

One such endeavour involves collaborating with an Australian company, Whitebark, to explore the prospects of geothermal energy in the country. Furthermore, CeraPhi has established a connection with a company in West Africa, paving the way for potential rural power solutions through geothermal resources.

Back on home soil, CeraPhi continues to make strides in its mission to promote sustainable energy practices.

The company is currently working on two engineering studies: one focused on supplying heat to a large glasshouse project and the other aimed at generating steam for industrial processes. Both initiatives underscore CeraPhi's commitment to providing innovative energy solutions.

Barry Read, Geology Specialist at CeraPhi Energy, expressed his excitement, stating: "We are thrilled to expand our reach worldwide and explore the immense potential of geothermal energy across diverse regions. Our aim is to empower communities, businesses, and industries with sustainable and renewable energy alternatives."

As CeraPhi Energy continues to forge ahead, its global presence and its commitment to harnessing the power of geothermal resources are becoming increasingly prominent, paving the way for a more sustainable and energy-efficient future.

New Project Launch

CeraPhi500 is born

Offering a unique approach, the CeraPhi500 is a game-changer with its single 500m vertical borehole capable of providing 40-50kWh of thermal energy. To put this into perspective, this energy output is sufficient to heat 5-10 domestic homes, showcasing its potential as a scalable solution for a variety of developments.

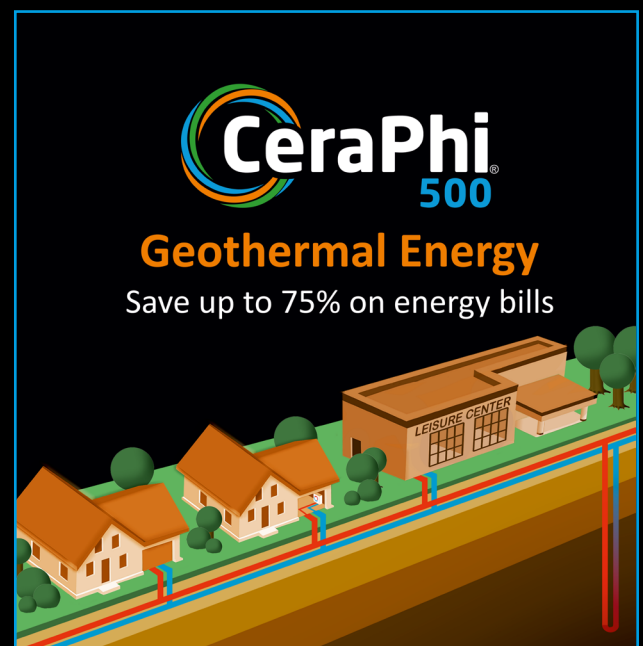
One of the key advantages of the CeraPhi500 lies in its adaptability to various settings. Whether it's housing developments, leisure centres, hospitals, universities or agricultural applications, the CeraPhi500 stands out as a versatile and efficient option that meets the energy needs of diverse projects.

At the core of this innovative solution is our dedicated in-house drilling team. Equipped with expertise and cutting-edge technology, our team ensures a seamless process from surveying and assessing requirements to the final stages of installation. Clients can rest assured that the implementation of the CeraPhi500 is not just effective but also fully managed, providing peace of mind and reliable energy solutions.

The introduction of the CeraPhi500 marks a significant milestone in the pursuit of sustainable energy practices. As we continue to prioritise eco-friendly and efficient solutions, the CeraPhi500 stands as a testament to our commitment to innovation and sustainability in the energy sector.

For more information on how the CeraPhi500 can revolutionise energy solutions for your project, reach out to our team today.

www.ceraphi.com/heating



Partnerships

CeraPhi Partners with Geothermal Ukraine to Unlock Nation's Vast Potential



CeraPhi Energy has signed a landmark agreement with Geothermal Ukraine (GU), a non-profit research and development organisation, to accelerate the deployment of geothermal energy solutions across Ukraine. This collaboration unites CeraPhi's proprietary CeraPhiWell™ technology with GU's extensive scientific expertise.

Ukraine possesses immense geothermal potential, with an estimated capacity of over 10 gigawatts for power and heat generation. CeraPhi's closed-loop system offers a unique solution by repurposing end-of-life oil and gas wells or drilling new wells for heating, cooling, and power generation.

"Ukraine has a rich history in the oil and gas sector," said CeraPhi CEO Karl Farrow. "We can strengthen that with our geothermal expertise, well-repurposing technology, and experienced team, contributing to Ukraine's energy security and decarbonisation efforts."

Geothermal energy presents a promising solution to Ukraine's energy challenges, including dependence on imported fossil fuels, aging infrastructure, and geopolitical tensions. By tapping into this renewable resource, Ukraine can diversify its energy mix, reduce

greenhouse gas emissions, stimulate economic growth, and create new job opportunities.

"Our collaboration with CeraPhi represents a significant stride towards establishing geothermal energy as a cornerstone of Ukraine's renewable energy landscape," said Taras Popadynets, Head of Geothermal Ukraine. "Together, we possess the knowledge and drive to turn this ambition into a tangible reality."

Key objectives of the partnership include feasibility assessments for repurposing existing infrastructure, joint research and development initiatives, workforce training programs, and public outreach campaigns to raise awareness of geothermal energy benefits.

With an unwavering commitment to sustainability and energy independence, CeraPhi and Geothermal Ukraine are poised to make a lasting impact on Ukraine's energy sector, fostering economic prosperity, environmental stewardship, and a resilient future powered by the earth's boundless heat.

KMA WELL SITE

Geothermal Site Visits at KMA Well a Success

In early June, CeraPhi hosted over 100 visitors at the KMA well site for demonstrations of our geothermal technology in action. Over the course of two weeks, industry professionals from various sectors attended to learn how geothermal energy could provide a heat source and aid in decarbonisation efforts for their businesses.

Karl Farrow, Gary Williams, and Russell Hoare led the site visits, sharing CeraPhi's innovative geothermal solutions and engaging in productive discussions with attendees. The visits offered an invaluable opportunity for participants to witness our cutting-edge technology firsthand and explore its potential applications within their operations.

While CeraPhi does not have plans to reopen the KMA well site for additional visits in the near future, we welcome inquiries from those interested in learning more about our geothermal technology.



CeraPhi remains committed to advancing sustainable energy solutions and supporting organisations in their journey toward decarbonisation. We look forward to continuing these vital conversations and partnerships to drive positive change in the energy sector.

If you would like to explore how our solutions could benefit your business, please contact us directly to arrange a consultation.

Geothermal Progress in Pickering



CeraPhi is making strides in its mission to repurpose oil and gas assets into renewable energy solutions.

Our Pickering geothermal heat network project took a major step forward when the Pickering Community Interest Company was awarded £36,000 in funding from North Yorkshire Council to explore geothermal heating solutions for the area.

The company has also made headway on two other grant-supported projects that could allow us to provide geothermal heating for rural communities and

agricultural operations:

- Our Kirby Misperton site is exploring potential solutions for providing geothermal heat to the village, agricultural businesses and a hotel/restaurant.
- At our KMB and Malton sites, we are looking at providing solutions for the villages of Great Habton and Little Barugh and nearby agricultural businesses.

In exciting news, we're now evaluating opportunities to partner with other companies on geothermal heat and power projects. We're seeing growing interest to move away from fossil-based operations and look at alternatives to coal and gas-fired energy production.

Certainly, these are demanding times for many in the agriculture/industrial sphere. But as energy costs continue to surge, could CeraPhi and others provide solutions to allow businesses to move away from reliance on fossil sources to using heat from the earth itself? We think so!

Past Events

EEEGR SNS Conference 22-23 May, Royal Norfolk Showground, Norwich

CeraPhi once again attended the EEGR SNS Conference, the biggest and most important energy event in the East of England. Karl Farrow CEO made a compelling presentation and the rest of the team informed other energy professionals of the benefits of Geothermal on the CeraPhi exhibition stand.

<https://eeegr.com/sns2024-the-energy-ecosystem/>



Agritech-E 10th Year Celebrations 4th June, Cambridge

Gary Williams COO attended the Agritech-E celebration networking event to meet existing and new colleagues from the UK's agri-tech community.

<https://www.agri-tech-e.co.uk/>



The Royal Norfolk Show 26-27 June, Royal Norfolk Showground, Norwich

CeraPhi was invited to exhibit as part of the Norfolk Chamber of Commerce, presenting the CeraPhi500 geothermal system and discussing how the heat beneath our feet can significantly reduce energy bills but more importantly help to reduce carbon emissions and meet Net Zero targets.

<https://www.royalnorfolkshow.co.uk/>



Upcoming Events



NHS EXPO 2024

13th September 2024, Colchester, Essex

'Can Do Health and Care' Expo 2024 - The Power of Kindness: is an opportunity to connect with stakeholders across the Suffolk and North East Essex system about the work they do.

<https://www.sneeics.org.uk>



Futurebuild 2025

4-6th March, London, UK

Futurebuild is an annual event taking place on 04 - 06 March 2025 at London's ExCeL, focused on showcasing the latest sustainable innovations and solutions in the built environment industry.

Celebrating its 20th year, the theme for Futurebuild 2025 is Impact, which embodies the commitment to making a positive change on the built environment and the communities.

The whole team at CeraPhi Energy is already looking forward to another great event next year.

<https://www.futurebuild.co.uk/>

CERAPHI'S Commitment to the next generation

Rising Stars and Inspirational Leaders in the Spotlight

At CeraPhi Energy, we take immense pride in nurturing and supporting the next generation of talent in the energy sector. That's why we are delighted to see Beth Suckling, a former intern at our company, featured in the spring issue of Insight Energy magazine.

Beth's journey with CeraPhi began when she undertook a paid internship while studying at the University Technical College. During her time with us, she showcased her exceptional aptitude and passion for the industry, leaving a lasting impression on our team.

Now, Beth's hard work and dedication have propelled her to new heights as she pursues an EDF degree apprenticeship, a testament to her unwavering commitment to professional growth and development. As a company at the forefront of geothermal energy solutions, we understand the importance of investing in young professionals who will shape the future of sustainable energy.

Therefore, CeraPhi has committed to take on two interns this summer from the Ogden Trust's Energy Internships scheme who will collaborate on a major mapping project for us.



Featured in Insight Energy's summer issue was our very own CEO Karl Farrow

In the insightful article, Karl reflects on his humble beginnings as an apprentice in the energy sector and the winding path his career has taken. His journey is a testament to the power of perseverance, hard work, and an unwavering passion for sustainable energy solutions.

Karl's story serves as an inspiration to aspiring professionals and seasoned industry veterans alike. From his early days as an apprentice, he has risen through the ranks, demonstrating an exceptional commitment to innovation and a deep understanding of the challenges and opportunities that lie ahead.

As the CEO of a pioneering company in the field of geothermal energy, Karl has been at the forefront of developing cutting-edge solutions that harness the earth's natural heat to provide sustainable and reliable energy sources. His insights and expertise have been instrumental in shaping CeraPhi Energy's trajectory and positioning the company as a leader in the industry.



The article not only highlights Karl's professional achievements but also sheds light on his personal journey, offering readers a glimpse into the resilience and determination that have propelled him to success.

At CeraPhi Energy, we take immense pride in having a visionary leader like Karl at the helm. His feature in Energy Insight serves as a reminder of the incredible potential that lies within each individual and the transformative impact that can be achieved through unwavering dedication and a commitment to sustainable energy solutions.

To read the article in full [click here](#).

CeraPhi's Geology Lead Inspires Young Minds at Queens Hill Primary School



On June 22, 2024, CeraPhi's very own Geology Specialist, Barry Read, took an exciting step towards community engagement by visiting Queen's Hill Primary School. Barry spent the day with the Year 3 class, a lively group of 7-8 year olds, to help them explore the crucial topic of sustainability as part of their geography curriculum.

During the interactive session, Barry introduced the children to the concept of sustainability and its importance in the UK. He explained how sustainable practices can help protect our planet for future generations and shared insights on how everyday actions can contribute to a more sustainable lifestyle. The children were eager to learn about renewable energy, specifically geothermal energy.

Barry's hands-on approach included fun activities and visual aids that made the learning experience both enjoyable and educational. The session sparked curiosity and inspired the students to think critically about their impact on the environment.

The enthusiastic participation and inquisitive questions from the young learners highlighted their keen interest in making a positive difference. CeraPhi is proud to support educational initiatives that promote awareness and understanding of sustainability. Engaging with the next generation on such vital topics aligns with our commitment to fostering a sustainable future.

We extend our heartfelt thanks to Queen's Hill Primary School for welcoming Barry and providing this wonderful opportunity to connect with the community. We look forward to more such inspiring interactions that help shape a greener and more sustainable world.

Advisory Board News

Energy Matters in Australia

by Chris Sladen, Advisory Board - Energy Transition

It is no surprise that primary energy consumption in Australia has grown slowly but steadily over the last decade, and that overall, carbon emissions have changed little.


Oil consumption remains flat around 1 million barrels per day (mmb/d). Domestic production has fallen and is now around 0.4mmb/d and imports have risen to around 0.6mmb/d. Refinery throughput is down significantly, around only 33% of what it was 10 years ago. Over 20 years, Australia has reduced from 8 to just 2 refineries. Today, Australia mostly imports fuels and refined products and has compromised its energy independence.

Coal production remains robust. Despite up and downs over the decade, production around 440 million tonnes is similar to 10 years ago. Australia remains a top 3 coal exporter together with Indonesia and Russia. Domestic consumption accounts for 25% of production, and although its consumption has fallen by a quarter over the decade, the domestic power sector remains a substantial coal user. It is clearly a struggle to move 'Beyond Coal'.

Australians continue to show more interest in hybrid vehicles and plug-in hybrid vehicles which together outsell EVs. All varieties have strong year-on-year growth, with EV growth higher than hybrids. These types of vehicles are now ~20% of all new sales.



Australia remains critical for the global energy transition. It is the world's largest lithium ore producer, top 3 for rare earth minerals, and a significant cobalt producer too. Over the last decade, lithium production has grown 5 fold and rare earth production 6 fold. Australia is investing tens of billions of dollars into the supply of graphite, cobalt, and nickel. There are many companies producing a range of components for EV and hybrid batteries. This is seen as reducing reliance on China. Australia seeks to differentiate itself with higher mining ESG standards. Australia remains the world's largest miner of iron ore supplying an astonishing 38% of global demand. Production is more than double of second placed Brazil. The ore is used to create steel used all over the world in the energy sector for pipes, rigs, pylons, cables, ships, tankers, trucks, platforms, buildings etc.



Geothermal interest in its many variations is increasing. Legislation exists in Australia for both licensing and tenders, with over 100 new exploration permit applications accepted in the last two years. There is so much scope for shallow, medium, and deep geothermal, and all its many uses in heating & cooling, power, and helping to generate fuels such as green hydrogen. There are many opportunities to add clean heat and power at existing fields.

Ground source heat pump systems tapping shallow geothermal are increasingly popular where the climate is well-suited. In Canberra, for example, many commercial & government buildings, as well as residential apartment blocks optimise roof-top solar, combined with a shallow geothermal array with heat pumps, hydronic radiators as well as innovative management of air flow and water to provide year-round efficient low-cost clean heating and cooling.

Power generation has increased around 10% over the last decade. Today, power generation is still dominated by coal at 47%, renewables has grown to 27%, then natural gas at 17%. Renewable energy consumption is up 4 fold in the last decade, even-so the country has an enormous challenge to decarbonise its electricity sector. Over the last decade, installed solar PV has grown around 6 fold, and wind power around 4 fold. Solar is widespread on residential and light industry buildings, but I observed there is plenty of space to add more solar farms. Today, solar power production is higher than wind, though the two have broadly similar capacity.

Nuclear power is banned in Australia on health and environmental concerns, and there is little remaining hydro that can be developed, however pumped hydro storage has potential in certain advantaged locations, such as nearby Sydney or part of an expanded Snowy Mountains scheme. I was fortunate to see the famous Barron Gorge hydropower system and the gigantic 125m waterfall nearby. Power was generated here through Australia's first underground system in 1935 and nowadays the remodelled and overhauled system has a respectable 66MW nameplate capacity.

Over the last decade, natural gas production has almost tripled to 150 billion cubic metres per year (bcm/y). Around 70% is exported as LNG to energy hungry Asian markets. LNG exports have risen 4 fold, to around 110bcm/y mostly supplying Japan, China, South Korea, and India. There is a high risk that underinvestment in domestic gas leads to power shortages in 2025. Domestic natural gas consumption has grown steadily and is now around 42bcm/y. Getting enough gas into the east coast Australia domestic market has been a longstanding problem. Many States have a ban or moratorium on unconventional gas, fracking and coal seam gas, and exploration has dwindled. Nationwide, numerous gas plays remain undrilled and discoveries undeveloped.

A frequent message that I encountered was that the energy sector has become over-regulated, with cumbersome and unnecessary detail which stifles the investors, innovators, and entrepreneurs. People also described to me their frustration over ineffective climate change policies. Australia's climate action ranks in the bottom 15 of over 60 countries assessed in the 2024 Climate Change Performance Index. The short political cycle of a federal general election every 3 years does not help.

Global Energy Developer Delivering Integrated Geothermal Energy Solutions



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