



PGM Energy

MAKING DIGITAL SUSTAINABILITY POSSIBLE

Transformation Journey with PGM Energy Services

PGM Energy staff are multi-skilled and deeply passionate about their domain, many of which contribute to open source frameworks, specialist industry forums and hackathons. They come fully certified, with regular training in associated technologies to remain relevant and compliant.



DAAP - Digital as a Product/Platform

'Think products & platforms across your organisation', your team's access to data, customer multi-experience (internal & external facing), continuous innovation, deployment, learning, improvement.



Hybrid Cloud Migration

Infrastructure & Applications: flex your compute needs as your organisation grows, reduce capital expenditure. Azure, GCP, AWS, plus many others.



Data - Architecting, Cleansing, Analytics, Products

Data lakes - Offer central, cost-effective, scalable storage for large volumes of structured and unstructured data.

Cloud-native data warehouses - High-performance, reliable, SQL-driven platform for business intelligence and reporting.

Lakehouse - Combine the advantages of a data lake's cost-effective, scalable storage with a data warehouse's reliable and performant reporting offering.

Data mesh - Uses a decentralized data architecture that allows for federated development and provisioning of data products.

Data fabric - establishes a metadata layer across multiple data environments.

www.pgmenergy.com

To learn more please contact: Howard Goodkind at howardg@pgmenergy.com



API Modernisation

Design, Architecture, Implementation, Support.

REST - uses simple HTTP requests and responses to get data from A to B. REST gets the job done without much fuss but can be clunky for real-time apps.

GraphQL - clients can ask for just the data they need. This makes GraphQL slick and efficient, but requires some extra work to set up.

WebSockets - allows constant two-way communication between client and server. This makes them awesome for real-time apps, but maybe a bit complex for simpler needs.

gRPC - fast and efficient, using Google's Protocol Buffers over HTTP/2. But gRPC requires more configuration than REST.

MQTT - uses a lightweight publish-subscribe system perfect for IoT devices talking to each other. MQTT isn't great for complex interactive apps.

Webhooks - allows servers to ping clients when something interesting happens. They're easy to use but not 100% reliable.



Software Re-engineering

Re-wire large monolithic systems into agile, flexible, customer centric microservices architecture, ready for continuous delivery, innovation, frictionless maintenance, future proof infrastructure. Includes TDD, Test driven development & scaling agile pods and automation.



UX

Creating meaningful and enjoyable digital experiences that benefit both users and businesses. Modernizing UI/UX results in more intuitive, user-friendly interfaces, improving overall user satisfaction. UX VR - Integrating digital elements onto real world. Balancing Omni-channel UX.



Gen-AI

Cloud native infrastructure advisory, Kubernetes delivering generative AI platforms. Large language model advisory, OpenAI GPT4, Meta's Llama2, and Mistral. ML and Algorithmic training models.



Cyber Security

Advisory, Training & Implementation. AI-powered threat detection, anomaly detection, and automated response systems. Confidentiality, Integrity, and Availability. Operational Technology threat detection.



Blockchain

Private & Public blockchain advisory services. Software architecture, development, testing, implementation, support. Examples Hyperledger, B3i, ripple, Quorum, r3, Ethereum, Kava EVM, Binance smart chain, Avalanche, Polygon Mainnet, Cronos Mainnet Beta.

In association with & audited by 5DNetZero ISO14065 standard



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