

interfuze.

# Case Study



**DevOps for critical infrastructure  
on Azure and Kubernetes**



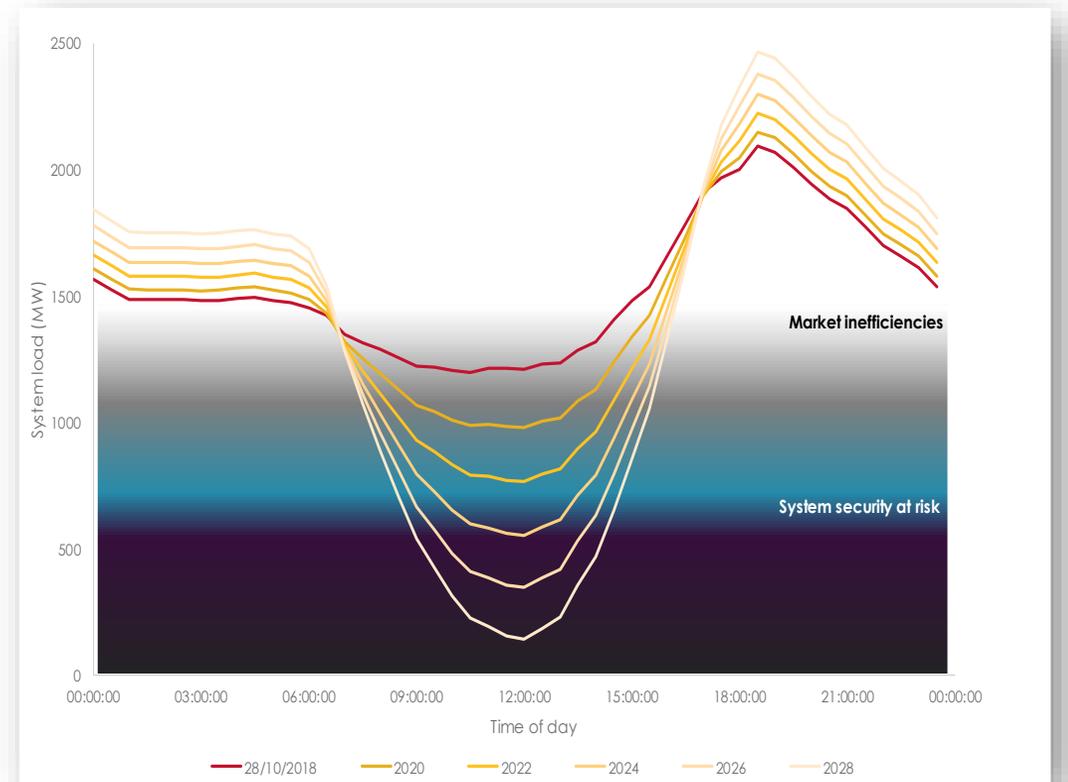
## The Client

The Australian Energy Market Operator (AEMO) is responsible for operating Australia's largest gas and electricity markets and power systems in the best interests of Australian energy consumers. These include the National Electricity Market (NEM) and interconnected power system in Australia's eastern and south-eastern seaboard, the Wholesale Electricity Market (WEM) and power system in Western Australia, the Victorian gas transmission system and gas markets across Australia.

As Australia's independent energy markets and power systems operator, AEMO provides critical planning, forecasting and power systems security advice and services to deliver energy security for all Australians.

## Overview

- AEMO has been charged with implementing the WEM Reform Program, which includes significant changes to its current IT systems.
- To address substantial availability and security needs, AEMO run an advanced cloud and DevOps ecosystem using Microsoft Azure, Kubernetes and service mesh.
- Interfuzze have worked closely with AEMO as part of its DevOps capability to successfully rollout their first work package to production.



*The South West Interconnected System (SWIS) is at an inflection point of being able to manage the changing dynamics of system demand level, generation mix and volatility, thus adding to the urgency to implement the WEM Reform*

## The Challenge

- The teams working on the WEM Reform Program are made up of many different disciplines and are dispersed across several geographies and time zones.
- All work to comply with AEMO's security and cloud standards.
- At the point of engagement, the DevOps effort was still in its infancy. Significant Interfuzze capability was drawn upon in working with AEMO to mature that DevOps capability and take it through to Production.

For AEMO, WEM Reform means delivering a new WEM that addresses today's security and market effectiveness challenges to shape a better energy future for Western Australia.

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## What is WEM Reform

WEM Reform is AEMO's Program of work to deliver the Foundation Regulatory Framework part of the WA Government's broader [Energy Transformation Strategy](#) which includes:

- Development of a [DER Roadmap](#)
- Development of an initial [Whole of System Plan \(WoSP\)](#); and

The Foundation Regulatory Framework includes two subcomponents:

1. **Improving Access to the SWIS** – changes to Regulations and other instruments to implement constrained network access, as well as necessary, consequential changes to the [Reserve Capacity Mechanism \(RCM\)](#).
2. **Delivering the Future Power System** - Modernisation of the Wholesale Electricity Market to enhance power system security and enable new generators access to the network.

For AEMO, WEM Reform means delivering a new WEM that addresses today's security and market effectiveness challenges to shape a better energy future for Western Australia.

## The Approach

- Interfuze sent in a Principal Consultant (Tim de Boer) in early to address communications, organise the work, deal with issues and engage and manage stakeholders in a Technical Lead capacity until a new AEMO Technical Lead came on board.
- Two Senior Consultants, took on the technical challenges and stayed on top of progressing the DevOps effort across the relevant technical environments.
- Our Principal Consultant then handed over to the new AEMO Lead and transitioned out of the project, leaving the senior consultants behind to work with the new DevOps lead in finishing the DevOps initiative.
- As the environment matured, our senior consultants were able to document and then hand over the environment to AEMO's internal capability.

## The Results

- The team worked collaboratively to release DevOps across all technical environments and into Production.
- Documentation and handover left behind a sufficiently ramped up internal capability.



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Think we can help solve  
your problem?

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