Certificate Management Solution

Improving energy market security by providing Market Participants a solution to self-manage TLS certificates

This material covers the Certificate Management solution, which is presently under development.

All information shared is confidential and for impacted market participants only.

The Certificate Management solution is designed to allow market participants to self-manage their TLS* Certificates that are used to connect to many AEMO electricity and gas systems.

Once completed, **AEMO will launch a Certificate Management interface in Q1 2023.**

* Transport Layer Security – facilitates secure communication over a network

Background

Today, Electricity and Gas market participants connect to many of AEMO's systems securely using TLS certificates supplied by AEMO.

These certificates must be replaced every 3-years. The replacement process is very manual and can take weeks.

Electricity

Gas

Moving to a self-managed solution

As part of improving market security and empowering market participants to self-manage their connections to AEMO systems, we are providing better way than the current manual approach to TLS certificate management.

Certificate Management

Certificate Management API*	Certificate Management User Interface
To allow you to self-manage your TLS certificates through an API, so that you can choose to automate the management of your TLS certificates.	A user interface on the Markets Portal to allow your IT and network staff to self-manage your TLS certificates.

* Application Programming Interface – an interface that systems use to communicate with other systems.

Where do I use TLS certificates?

TLS Certificates are only required by participants for application-to-application (also known as system-to-system) communications.

User Interfaces do not use participant-supplied TLS certificates.

The following systems across Gas and Electricity require the use of TLS certificates to authenticate through AEMO's network to use those systems. If you use any of these systems, this solution impacts you.

Gas

Gas Supply Hub FRC, also known as the GHUB FRC (Gas Retail B2B, and B2M, traffic using ebXML)

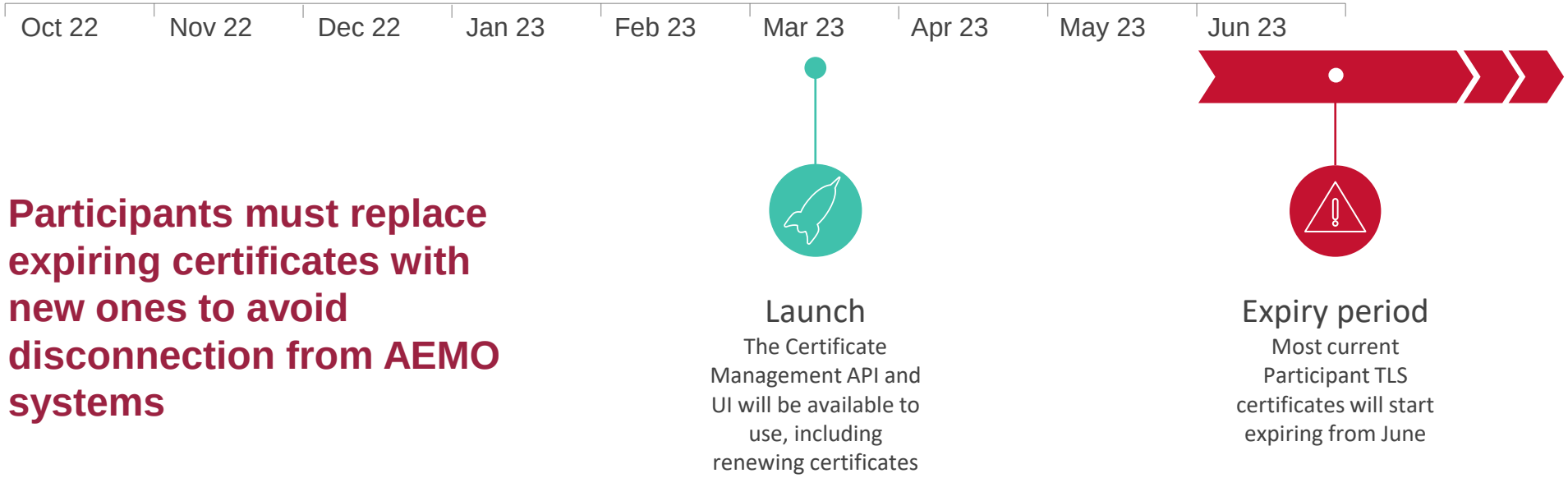
Electricity

Electricity Hub, also known as EHUB, APIs and systems.

Your responsibility

- Once launched, **market participants will be required to ensure their own TLS certificate currency and self-manage their TLS certificates**.
  - The solution will send notifications to Participants 90-days prior to the expiry of the TLS certificate to remind them to replace their soon-to-expire certificate.
  - AEMO will monitor the replacement of expiring certificates to ensure participants are self-managing the replacement of their TLS certificates prior to expiry.

- Most participant TLS certificates will start expiring from June 2023.



Participants must replace expiring certificates with new ones to avoid disconnection from AEMO systems

Next steps

AEMO will be in regular contact with **your nominated IT contacts** as the solution progresses, and to ensure they understand their responsibility.

For any further enquiries, please contact this mailbox:

CertificateReplacement@aemo.com.au

Please circulate this pack to your appropriate technical people within your business