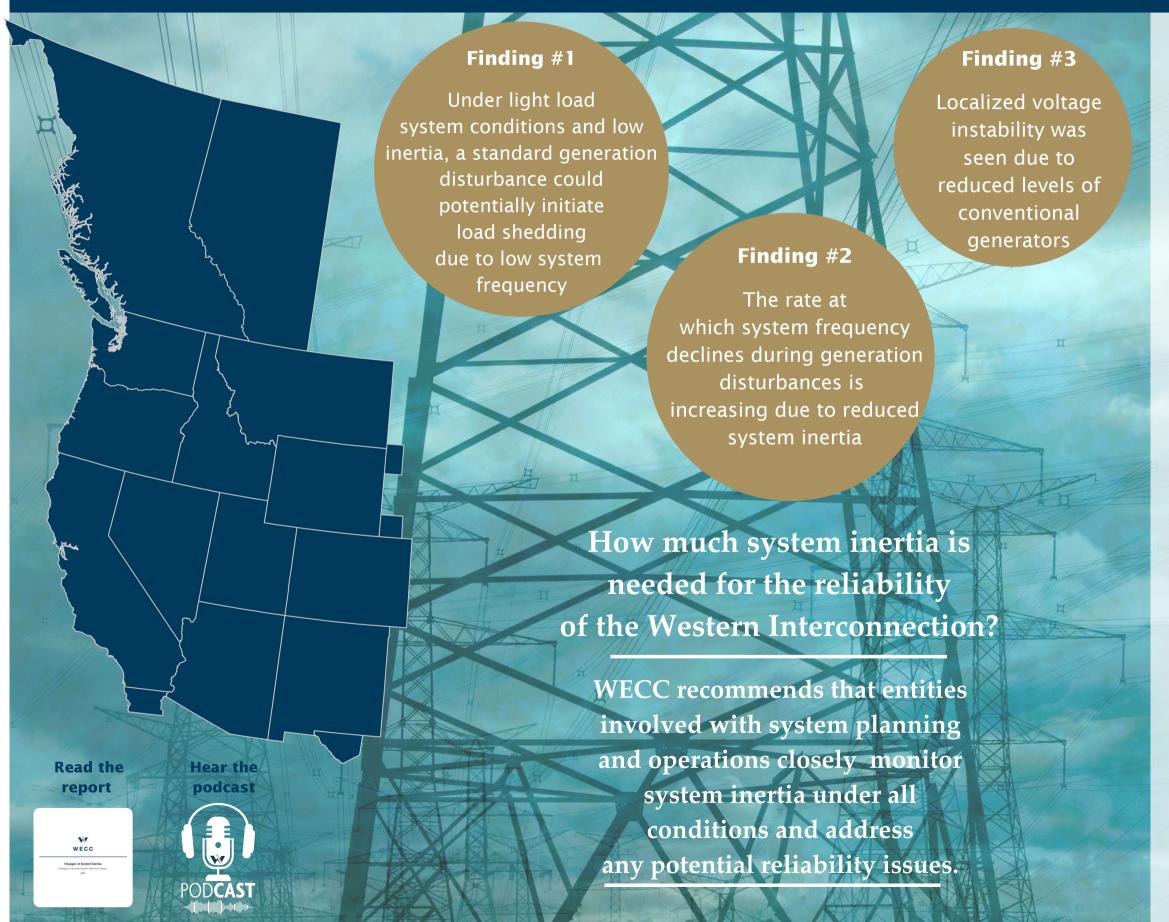
CHANGES IN SYSTEM INERTIA

Executive Summary



WHAT IS SYSTEM INERTIA?

In power systems, inertia is the energy stored in large rotating generators and some industrial motors, which tend to remain rotating. This stored energy could be particularly valuable if a large power plant were to fail, since it can temporarily make up for the power lost when a generator fails.

WHY DOES THIS MATTER?

System inertia matters because the Western Interconnection is experiencing a shift from conventional resources to wind and solar generation resources, which do not inherently provide inertia to the system. This could result in system instability or loss of load under certain conditions.