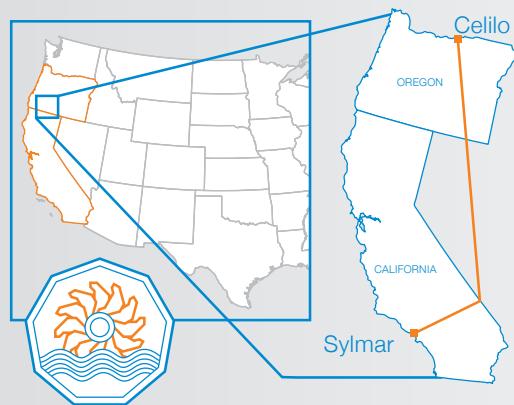


Pacific Intertie – A partnership nearing half a century Sylmar station upgrade – Enhanced efficiency and reliability of power supply

The 846 miles (1,362 km)

long **Pacific HVDC Interie** allows power to flow between the Northwest and Southern California, helping to balance supply with demand.



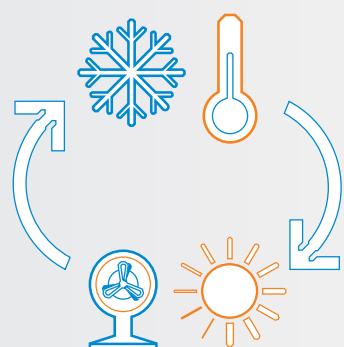
Oregon consumes more power for

heating

during winter while in summer

California consumes more power for

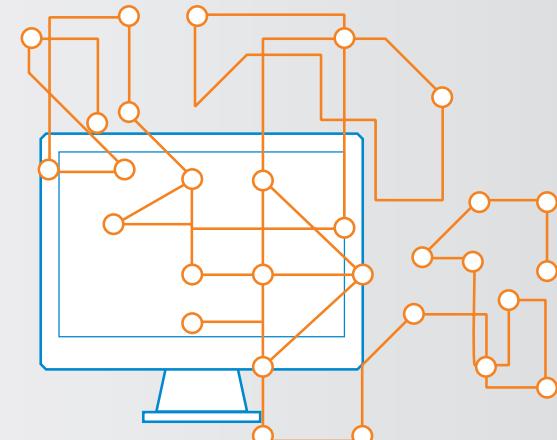
cooling.



Lifetime commitment

- **Now** Upgrade of Sylmar station to enhance and improve efficiency and reliability of power supply.
- **2016** Refurbishment and upgrade of Celilo converter station.
3,800 megawatts, ±560 kilovolts
- **2004** Modernization and life extension of Sylmar converter station.
- **1989** ABB commissions the Pacific Intertie Expansion.
3,100 megawatts, ±500 kilovolts
- **1985** Upgrade.
2,000 megawatts, ±500 kilovolts
- **1975** Transmission rating raised.
1,600 megawatts, ±400 kilovolts
- **1970** ABB commissions Pacific Intertie HVDC link.
1,440 megawatts, ±400 kilovolts

An HVDC link in an AC grid



MACH,
the market leading control
and protection
system for HVDC.

Optimized
for the unique requirements of the
Pacific Intertie.