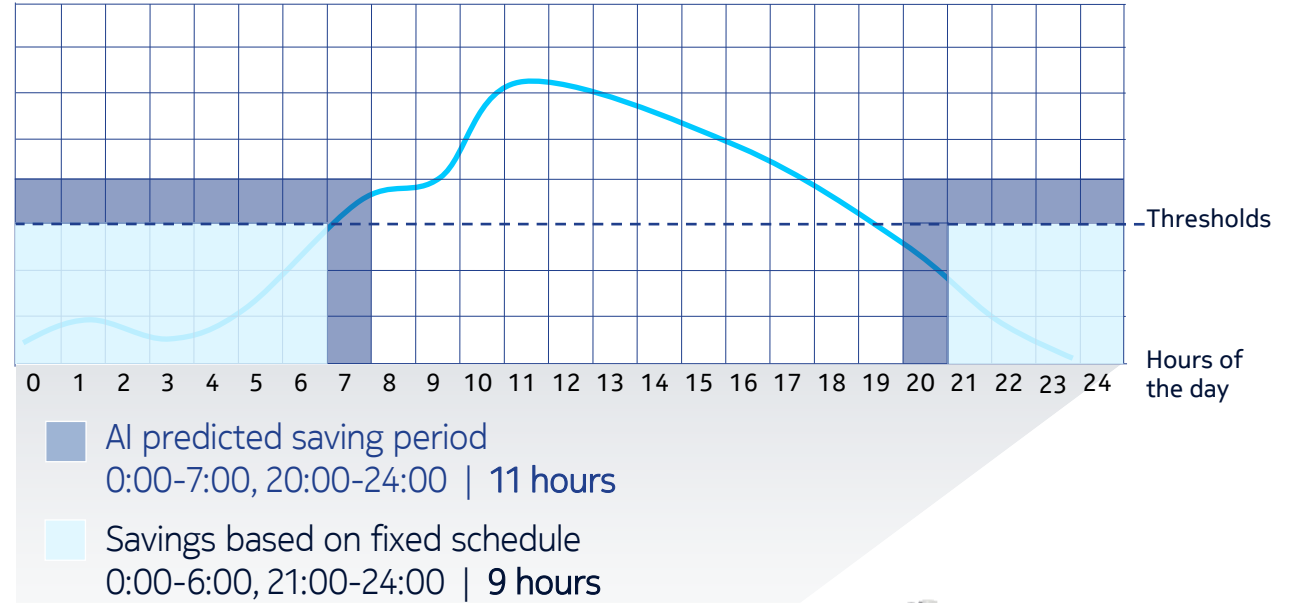# Nokia AVA for Energy Efficiency
AI based energy savings automation reduces energy use by up to 30%

Pain point

- Ambitious sustainability targets
- >80% of energy is not used in a productive way, idle resources

Solution

- Dynamic powering down of unused RAN elements
- Covers both complex network scenarios and site level analytics
- Hard power control to unplug hardware
- Consumption transparency across active and passive elements

Up to **30%** Energy savings w/o impacting customer experience

Thresholds

Hours of the day

AI predicted saving period
0:00-7:00, 20:00-24:00 | **11 hours**

Savings based on fixed schedule
0:00-6:00, 21:00-24:00 | **9 hours**

Technologies

Usage over time

Office

Mall

Urban outdoor

Deactivated carrier

NOKIA