

# PACIFIC NORTHWEST AGGREGATED DEMAND RESPONSE COMMERCIAL DEMONSTRATION PROJECT

WINNER  
2015 PLMA  
PACESETTER  
AWARD

**35**  
MEGAWATT  
DEMAND RESOURCE PILOT

AVAILABLE  
**24/7**

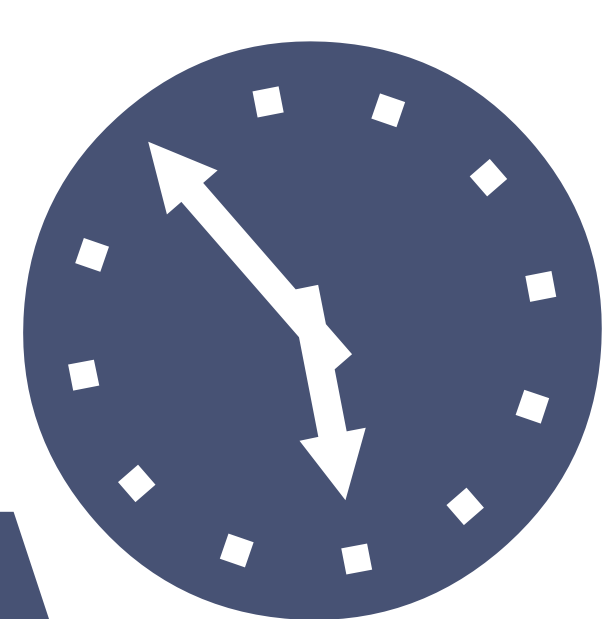
**FAST**  
(**<10 - MINUTE  
RESPONSE**)

## TECHNOLOGY

**DEMAND  
RESPONSE  
AGGREGATED  
CONTROL  
SYSTEM**  
BY RAI OF SPOKANE, WASH

ROBUST  
**SCADA-BASED**  
FISMA-COMPLIANT SECURITY

**24/7  
DATA  
FEED**

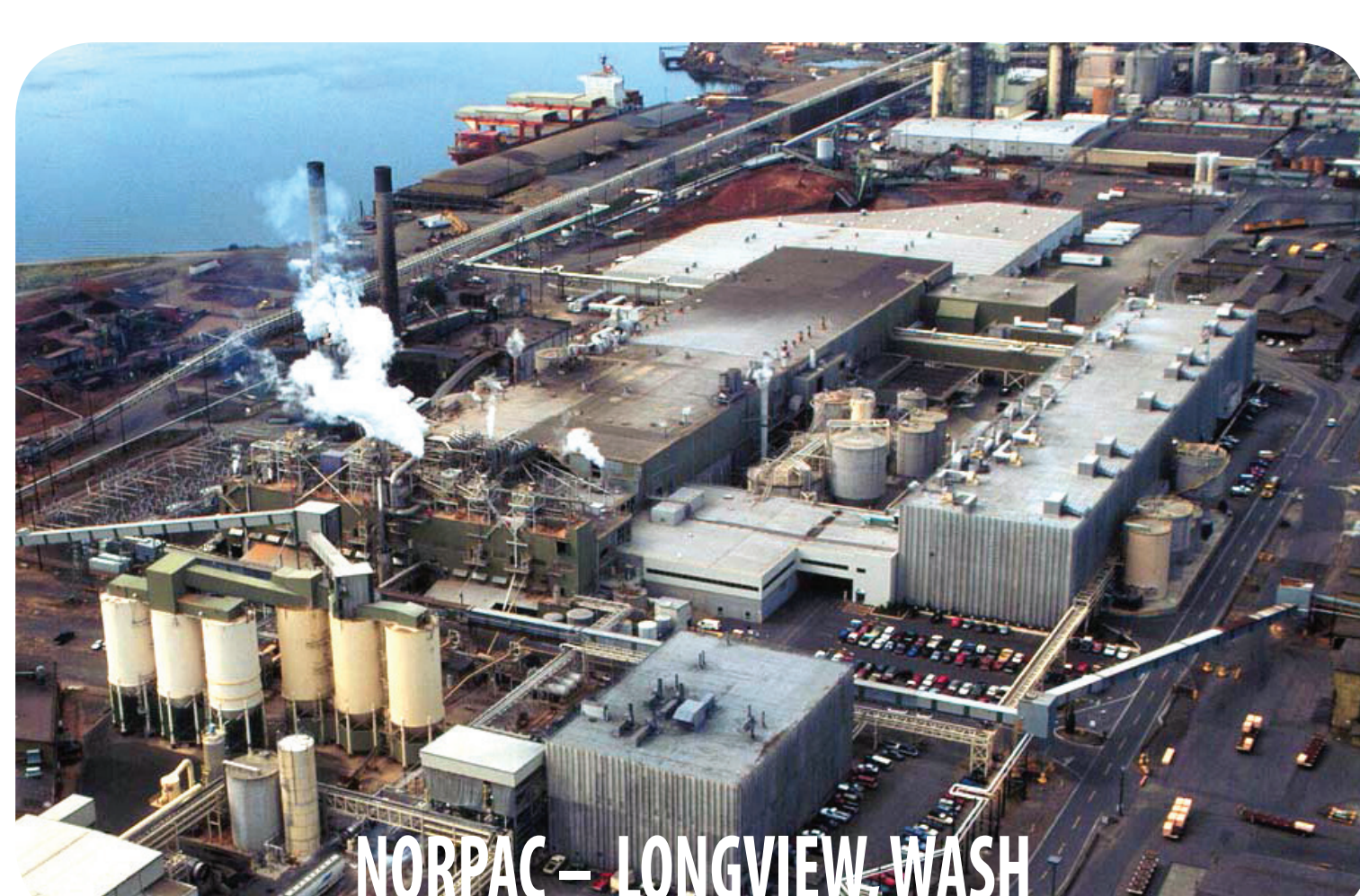


**1-MINUTE  
INTERVALS**

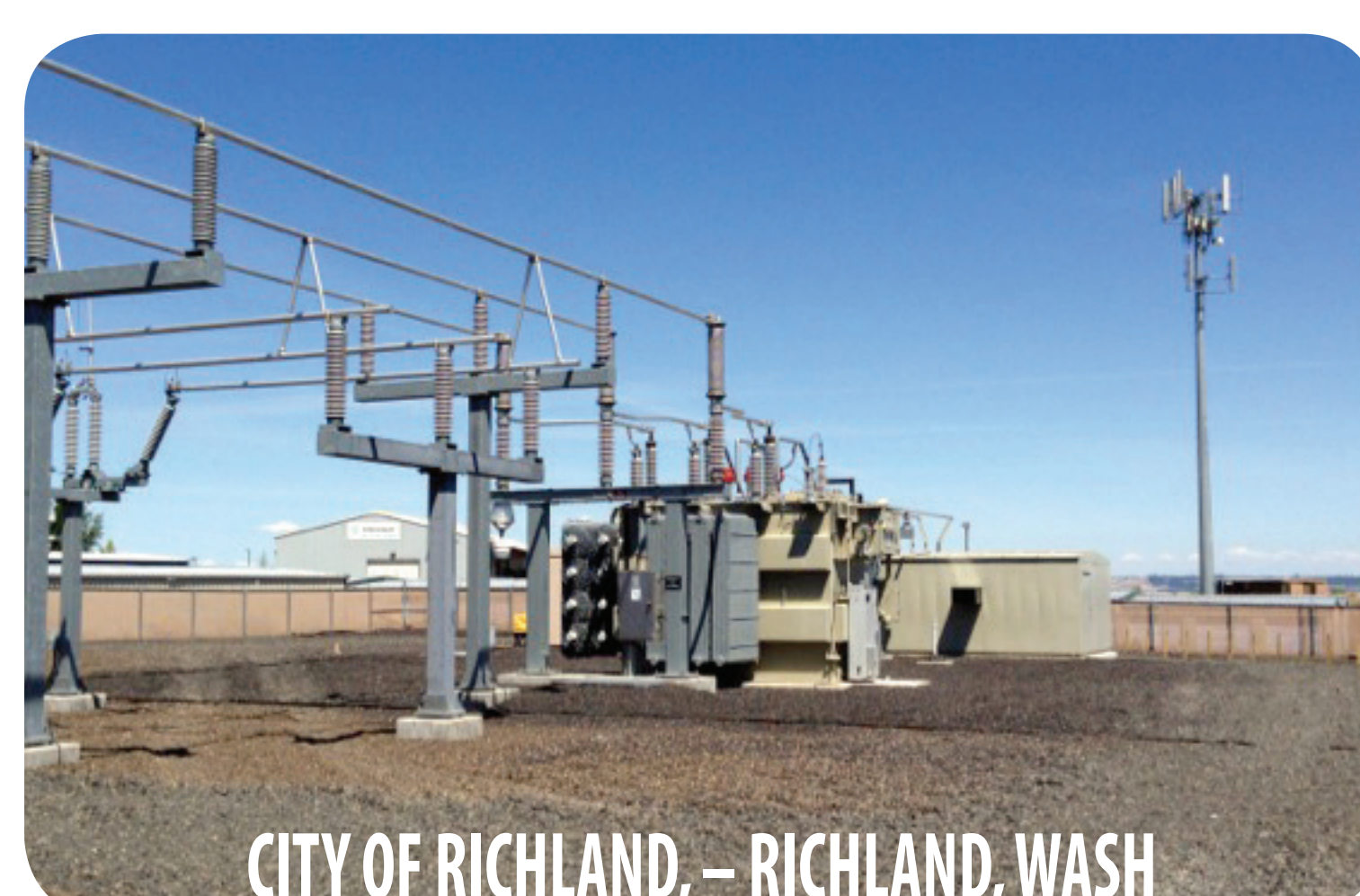


**REAL-TIME  
MONITORING,  
REMOTE CONTROL,  
& STATUS ALERTS**

## LOAD ASSETS DIRECT CONTROL



NORPAC – LONGVIEW, WASH  
INDUSTRIAL LOADS  
PUBLIC UTILITY DISTRICT NO. 1 OF COWLITZ COUNTY



CITY OF RICHLAND, – RICHLAND, WASH  
DEMAND VOLTAGE REDUCTION



PONDERAY NEWSPRINT COMPANY – USK, WASH  
INDUSTRIAL LOADS  
PUBLIC UTILITY DISTRICT NO. 1 OF PEND OREILLE COUNTY



POWIN ENERGY – TUALATIN, ORE  
BATTERY ENERGY STORAGE SYSTEM

## RESULTS

**85**  
EVENTS IN  
12 MONTHS



**94%<sup>(+)</sup>**  
SUCCESSFUL  
RESPONSE TO  
EVENTS



**98%**  
AVAILABILITY

VALIDATED  
**100%**  
HOST UTILITY ENGAGEMENT  
AND  
**WIN-WIN**  
UTILITY/CUSTOMER  
RELATIONSHIPS



**COST-BASED AGGREGATION GOVERNED BY PARTICIPANT UTILITIES  
PROVEN IN-HOUR BALANCING OF RENEWABLE GENERATION  
BY PUBLIC POWER – FOR PUBLIC POWER**



**ENERGY NORTHWEST**

A JOINT ACTION AGENCY PROVIDING COST-BASED GENERATION AND SERVICES FOR PUBLIC POWER

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