

# Polaris Overview

January 2021David Meyers, CEO

### Who Are We?

#### Leading agricultural energy management provider for energy users and utilities

- 400+ irrigation and conveyance pumps on network with 65 MW Peak Load Under Management (200 MW monitored)
- Seasoned team w/10+ years DR experience leading market and technology development in Western US

### Load Management Automation

Full AutoDR customer lifecycle management:
 Qualification, Incentive Management, Project
 Management, Program Participation, M&V

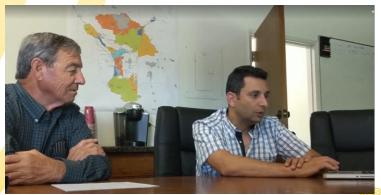
### DR Program Management and Aggregation

- Recruit, enable and manage DR resources
- Event execution and network readiness
- Aggregate load and manage settlements

#### Research & Development

- EPIC : Technologies and Strategies for Agricultural Load Management to Meet Decarbonization Goals
- o BIRD: Integrated Irrigation & Energy Management



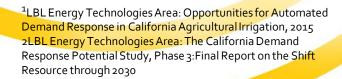




## CA Agriculture Sector Has Untapped Flexible Demand

- Large, binary (on/off) loads
- Dual-use storage potential (reservoirs, canals)
- Relatively flat daily profiles
- 1.1 GW DR Potential¹
- 875 GWh/day achievable load shift from the Ag sector<sup>2</sup>

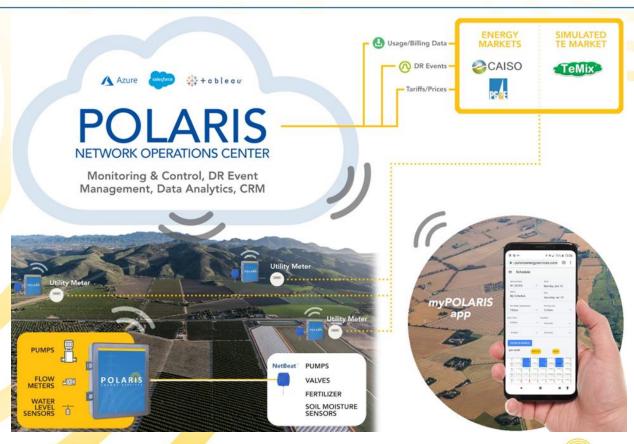






# **Technology Solution**

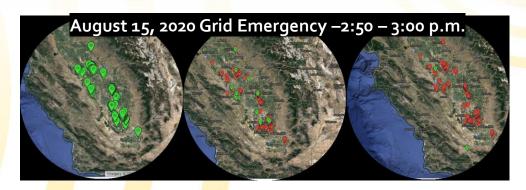
- Comprehensive
   platform from the
   energy market to the
   valve in the field
- Situational awareness and management for large portfolios of energy assets
- Integrations with energy users' preferred irrigation control systems

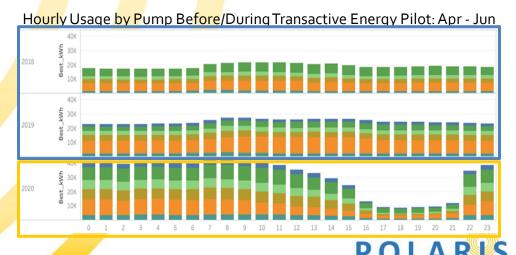




### Demonstrated Results

- Largest AutoDR project implementer in CA by number of sites and megawatts
- 90%+ Cumulative DR performance
- 67% of load shifted from ramp hours of 94% that can potentially be shifted in dynamic pricing pilot
  - Reported improved crop and 30% labor savings
  - Customer ROI on automation
    investments for farmers range from 7-41% based on energy savings alone
- → 70,000 CA irrigation pumps →
  - \$87M/yr DR + SaaS (\$1B global)
  - \$375M Automation





## Contact Info

# Thank You!

David Meyers, CEO | dmeyers@polarisenergyservices.com | (415) 722-2261

