



ageto

making renewable energy simple

Microgrids during COVID-19

HOMER International
MICROGRID Conference



Mike Murray

Co-Founder and COO

- making renewable energy simple



Latin definition:

- **DRIVE** the world towards clean renewable energy
- **PURSUE** renewable energy integration
- **CONTROL** the energy resources comprising the microgrid

Agenda

- Working during COVID-19
 - Technology Solutions
 - Local Support
- Project Case Studies
 - Harbledown Island
 - SBP New Orleans



Pre COVID-19

- Multiple days on-site
- Expensive and time-consuming travel
- Repeat trips if site wasn't ready

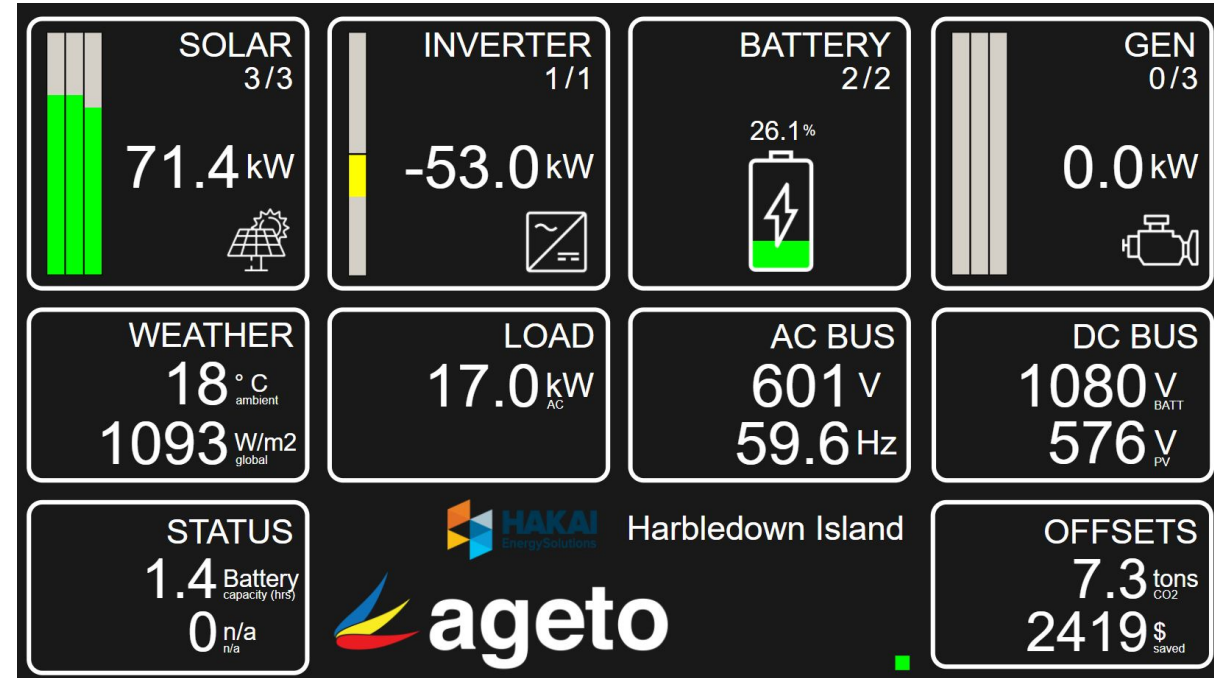


COVID-19

- Safer-at-home
- Travel Restrictions
- 14-Day Quarantines
- Fewer or no flights
- Testing Requirements

Technology Solutions

- Validated Energy Resources
- Remote Communications
 - Web dashboard
 - Troubleshooting support
 - Email alarms
- Access to other energy resources
 - Energy Storage
 - Generators
- Personal Communications
 - Phone/WhatsApp/Messaging
 - FaceTime/Zoom



Local Support

- On-site Installation
- Parameters Configuration
- Provide Setup Guides
- Energy Resource Training
- Troubleshooting

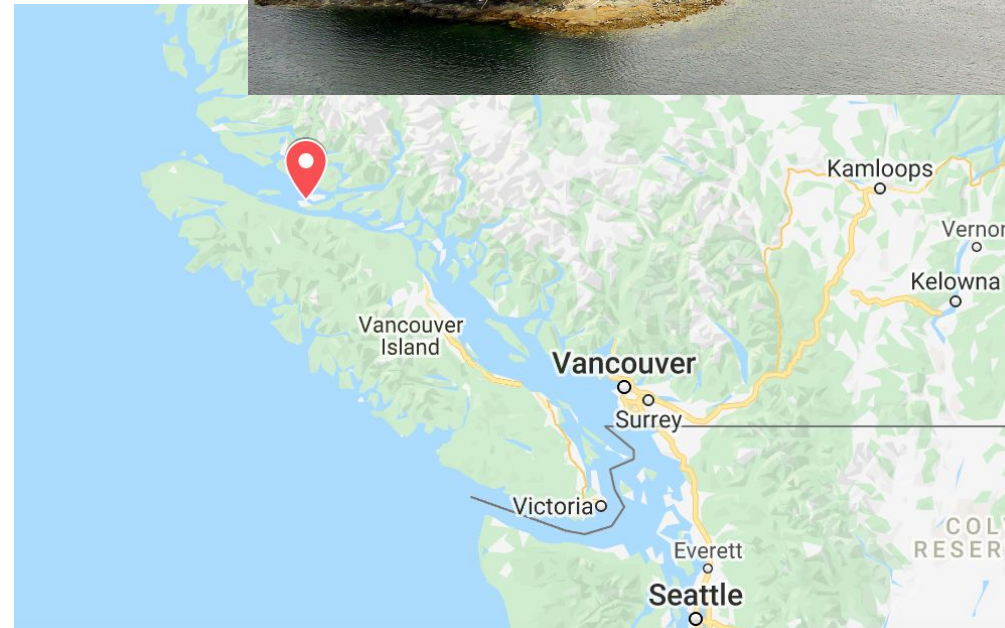




Case Study: Harbledown Island

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- First Nations Community
- Energy Resources
 - Dynapower MPS-i125
 - 440 kWh
 - (3) SMA CORE1
 - (3) ComAp IntelliGen
- Commissioning
 - Scheduled - April 2020
 - PV/Diesel - May 2020
 - Diesel-off - July 2020



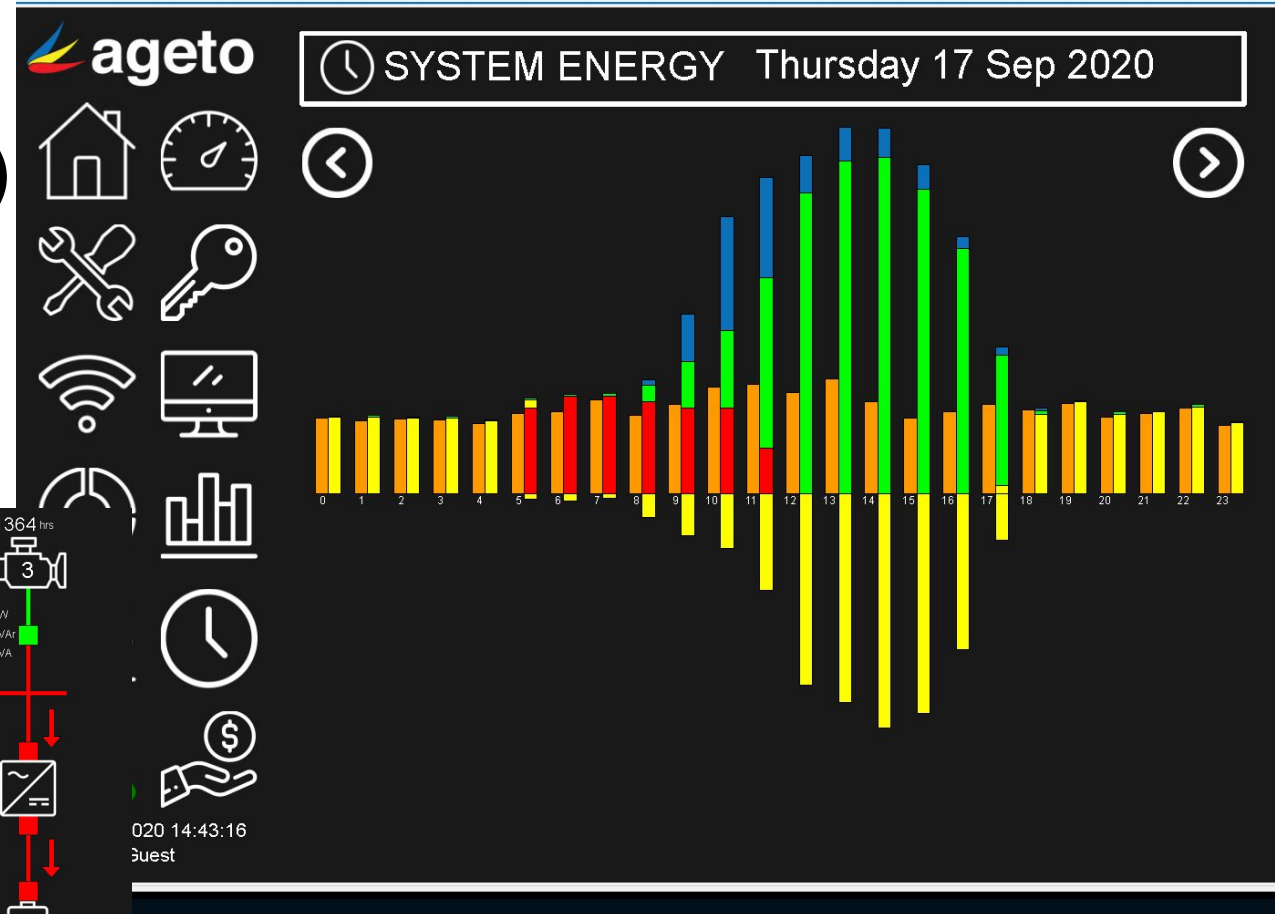
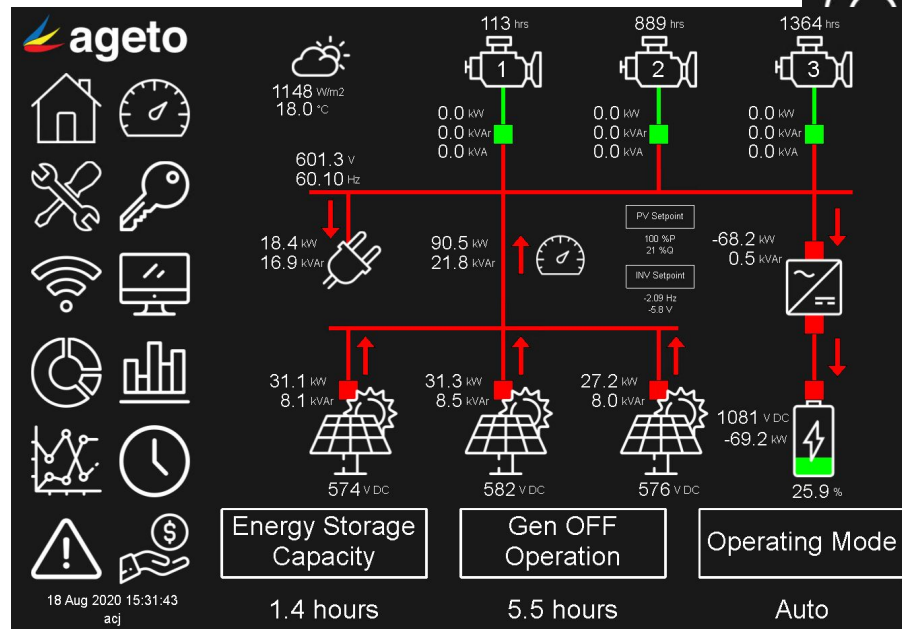
Case Study: Harbledown Island

- Hakai Energy Solutions
 - Boat ride - 20+ miles
- Satellite Internet
- Generator Training
- Dynapower startup



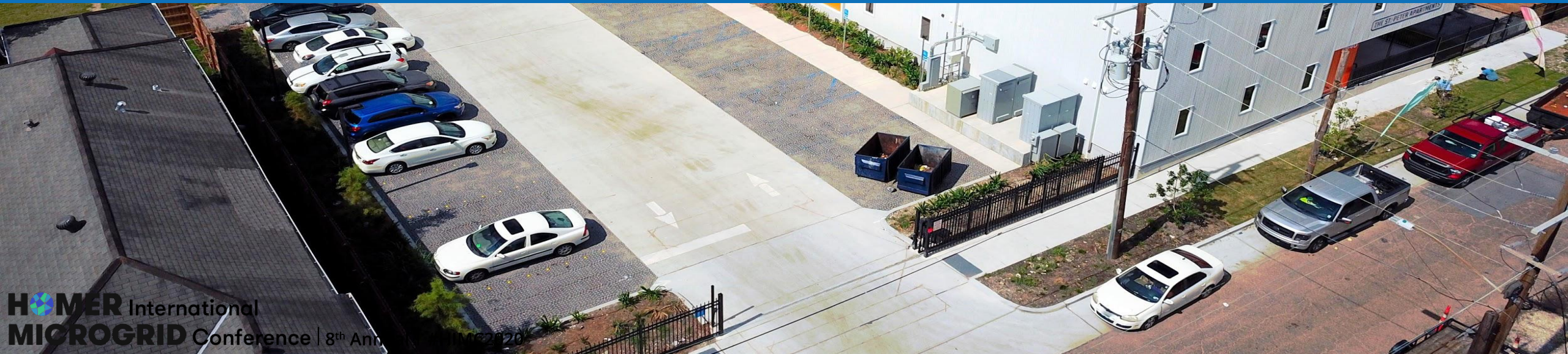
Case Study: Harbledown Island

- Reliably operating
- Isoch Operation (grid-forming)
- Diesel-off for 5 days in a row
- \$5,300 in diesel savings
- 44% Renewable Contribution





Case Study: SBP's St. Peter Apartments



Case Study: SBP St. Peter Apartments

- Louisiana's first commercial-scale microgrid
- Net-Zero Affordable Housing
- Energy Resources
 - Dynapower MPS-i125
 - (3) SMA CORE1
 - (1) AccuEnergy Acuvim II
- Commissioning
 - Scheduled - May 2020
 - Actual - August 2020



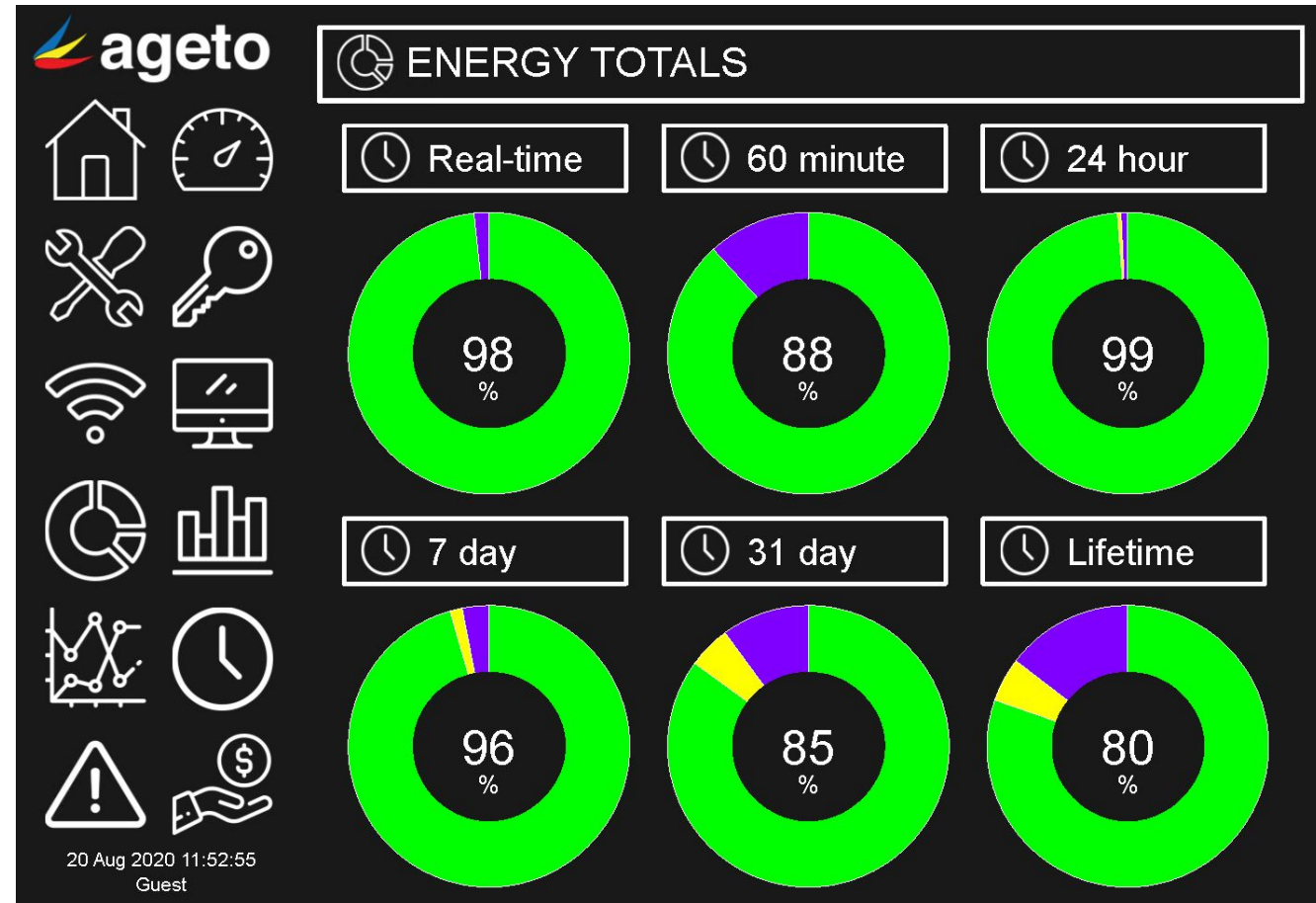
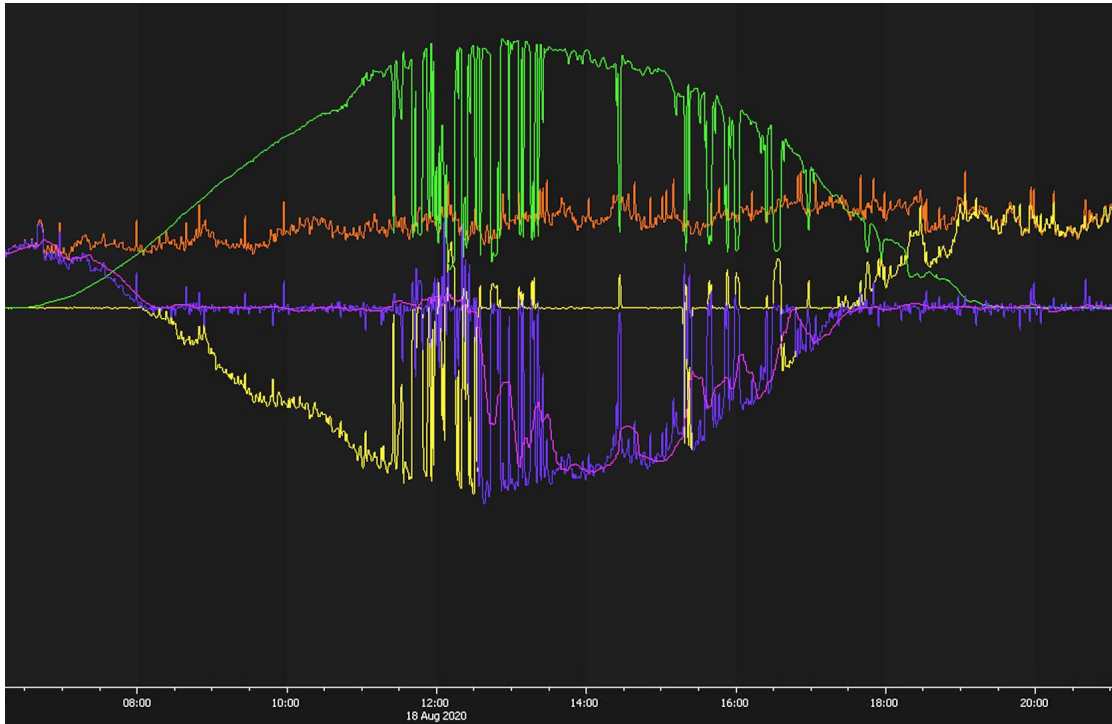
Case Study: SBP St. Peter Apartments

- Solar Alternatives
- Self-consumption of PV
- Resilient Backup Power



Case Study: SBP St. Peter Apartments

- Seamless backup
- One-button resiliency mode
 - Two hurricanes



Remote Commissioning Checklist

- On-site preparation
- Right Technology
 - Communications
 - Connection
- Right Team
 - Local Support
 - Remote Support



Conclusion

- Right technology and right team unlocks potential
- Remote Commissioning won't always be preferred or required
- Personal interactions missing





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