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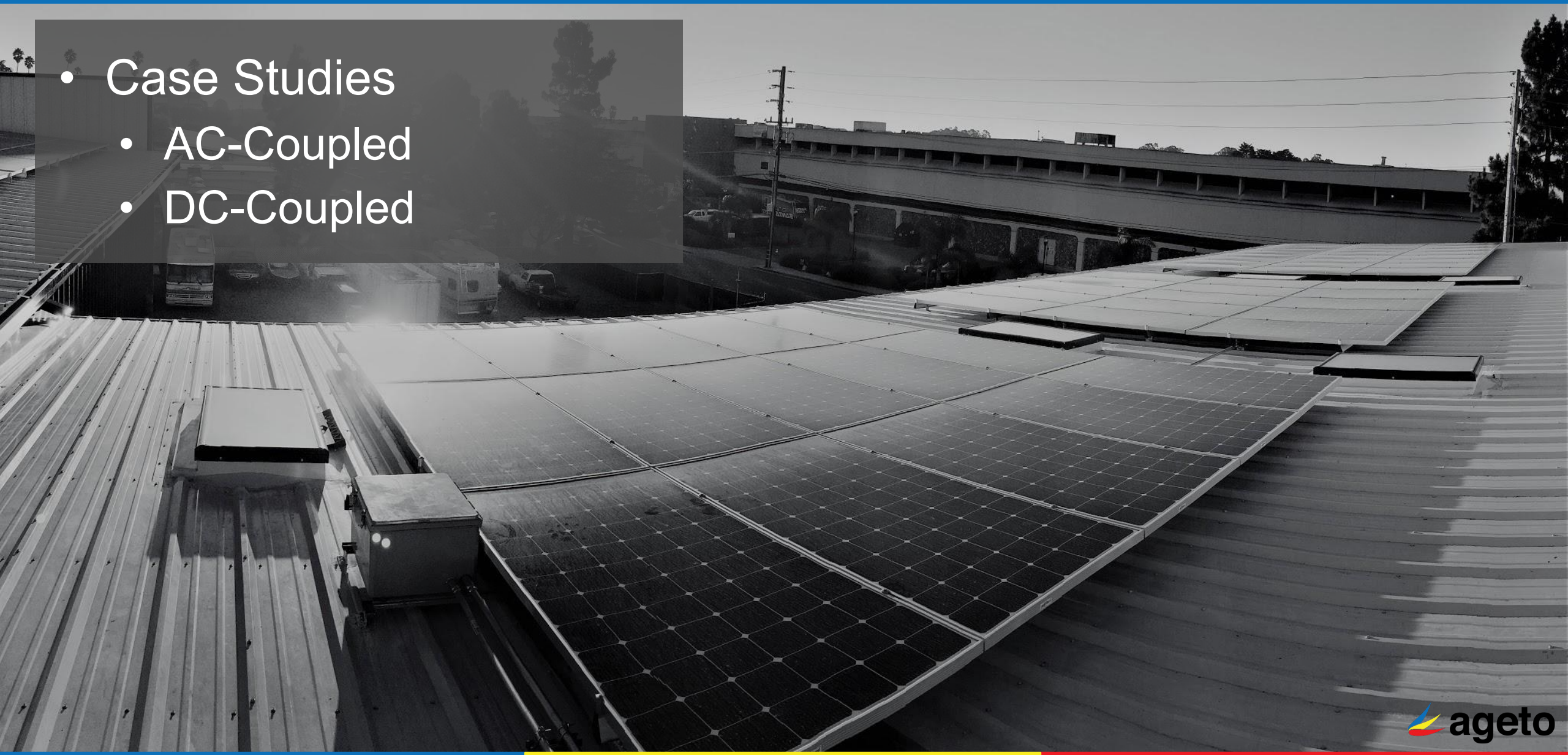
making renewable energy simple

Learning Objectives

- Case Studies
  - AC-Coupled
  - DC-Coupled



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Sandbar Solar and Electric

Santa Cruz, CA

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The Problem

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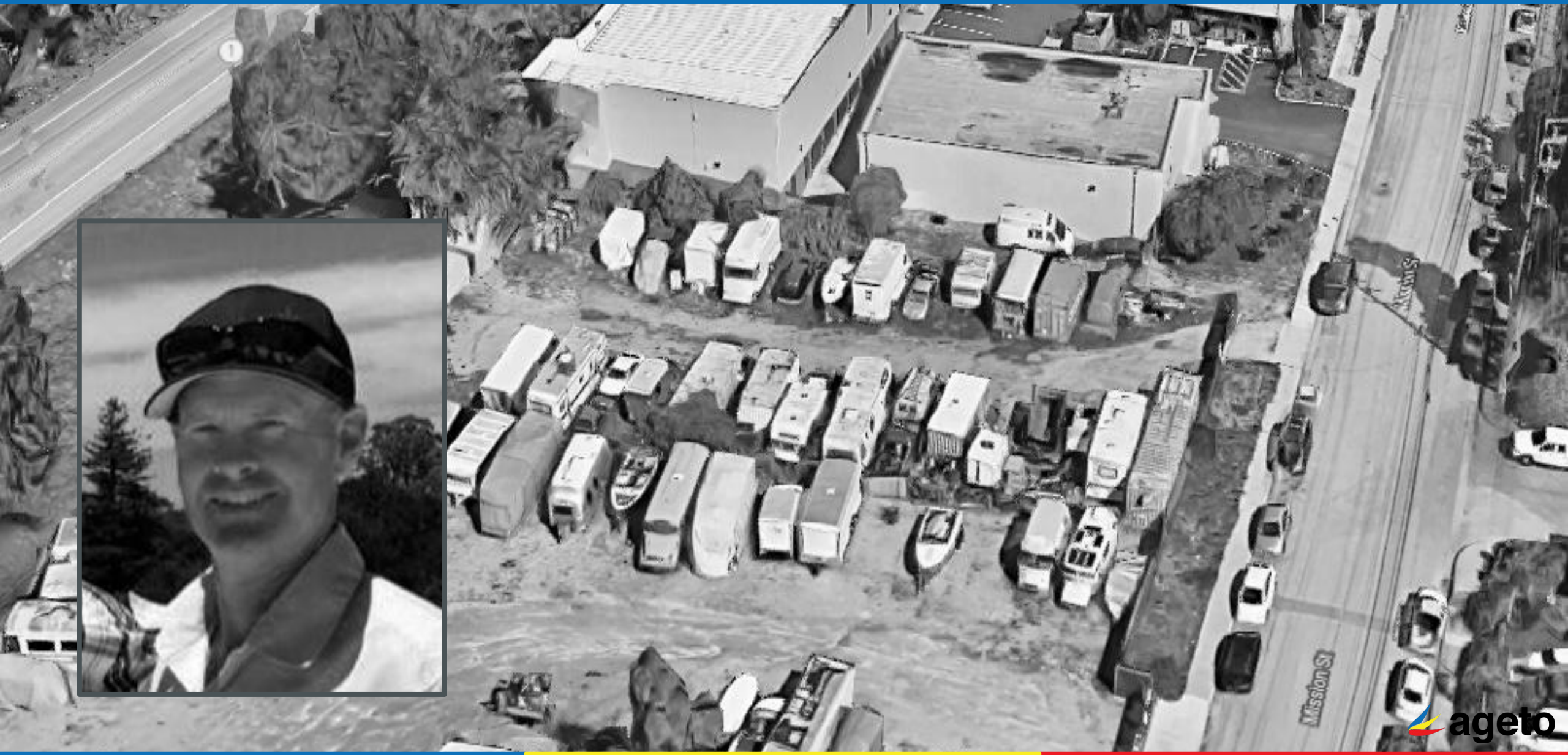
The Problem



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The Problem

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The Problem

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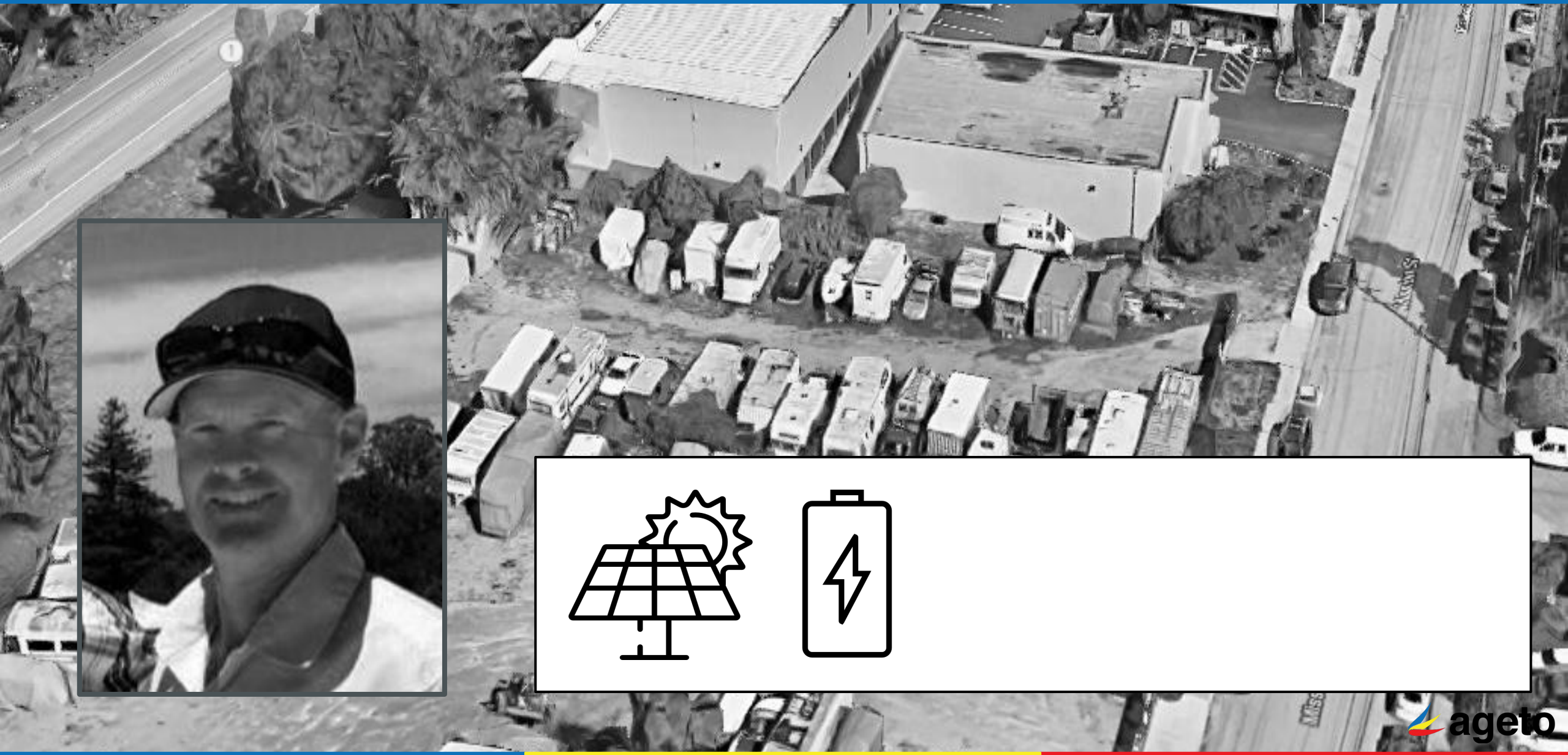
The Problem



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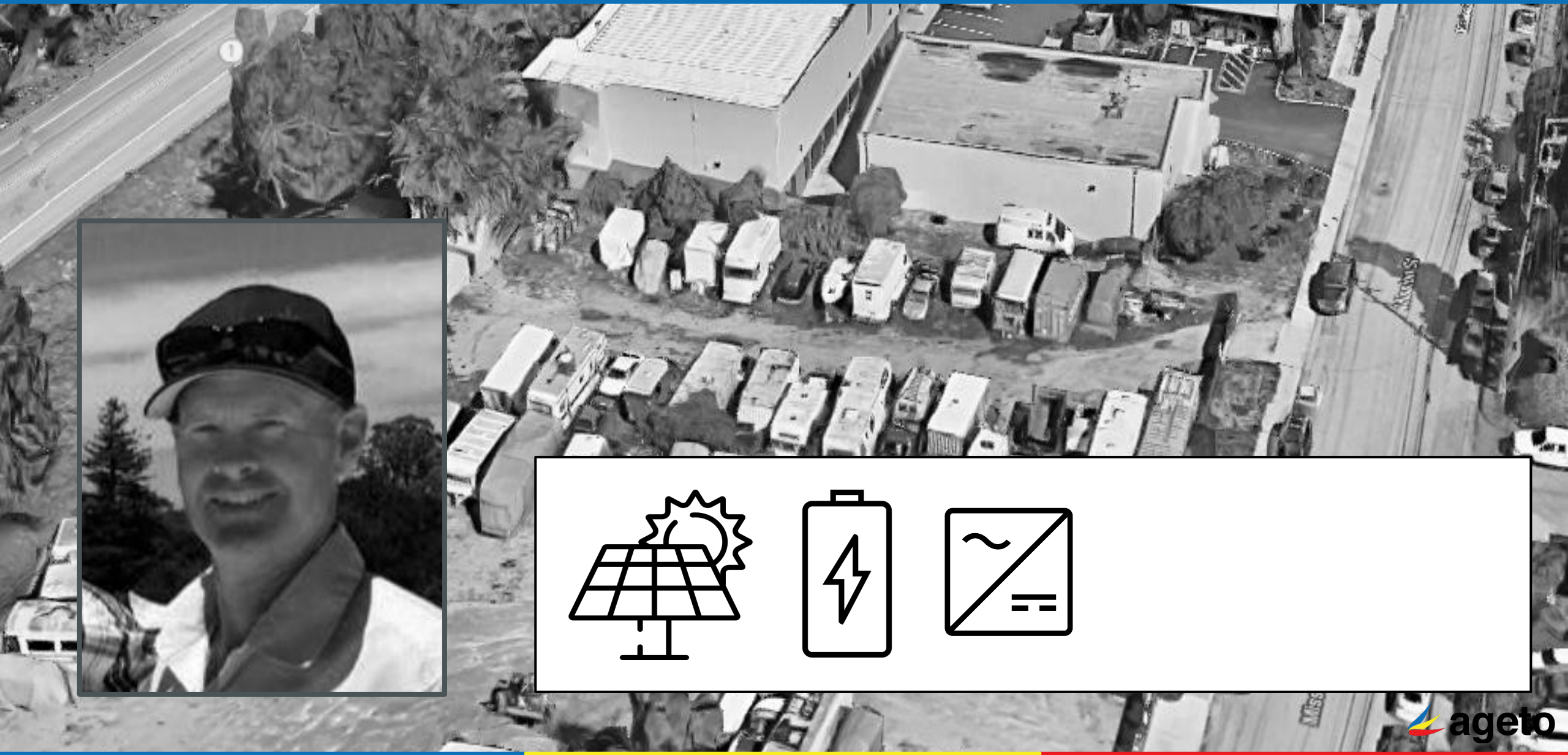
The Problem



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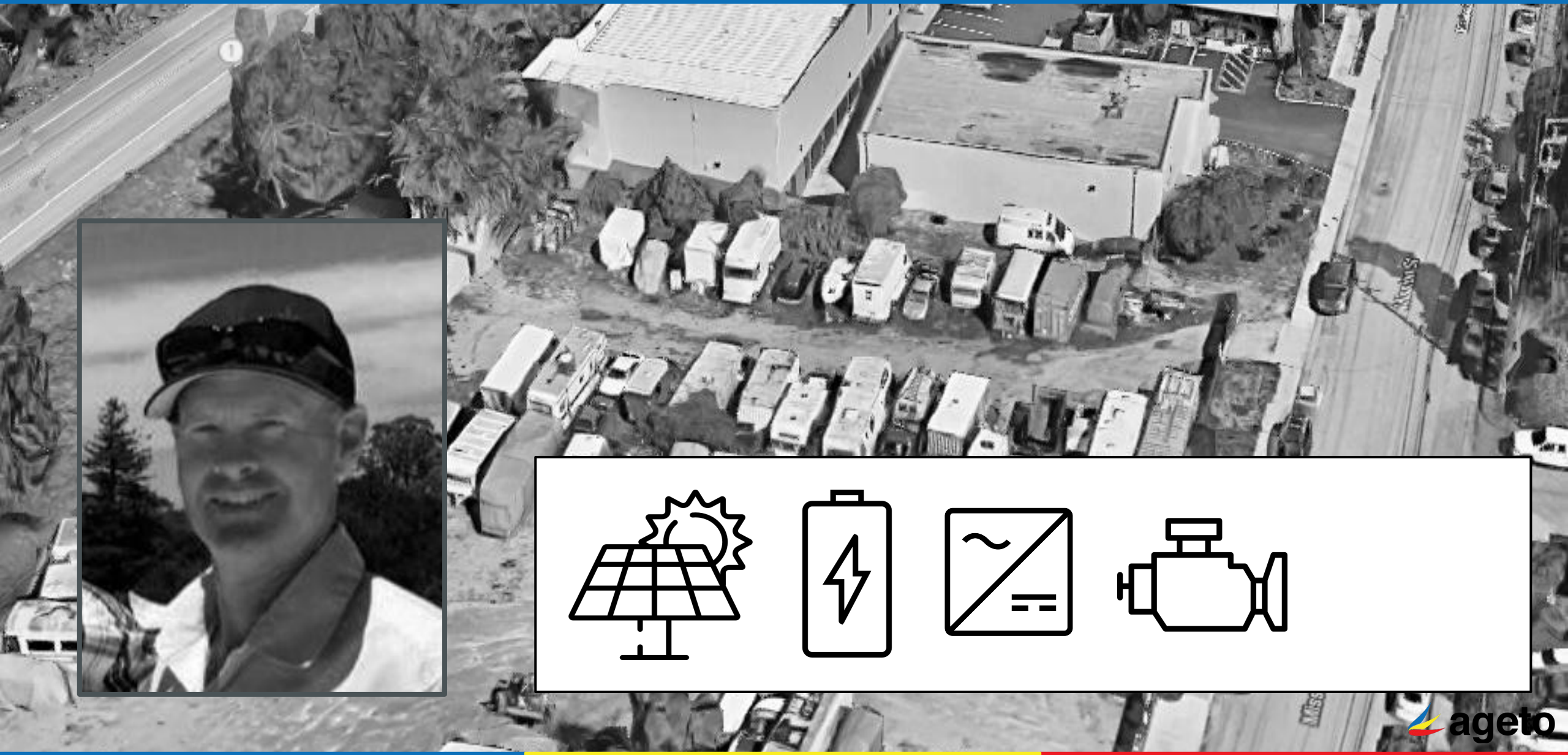
The Problem



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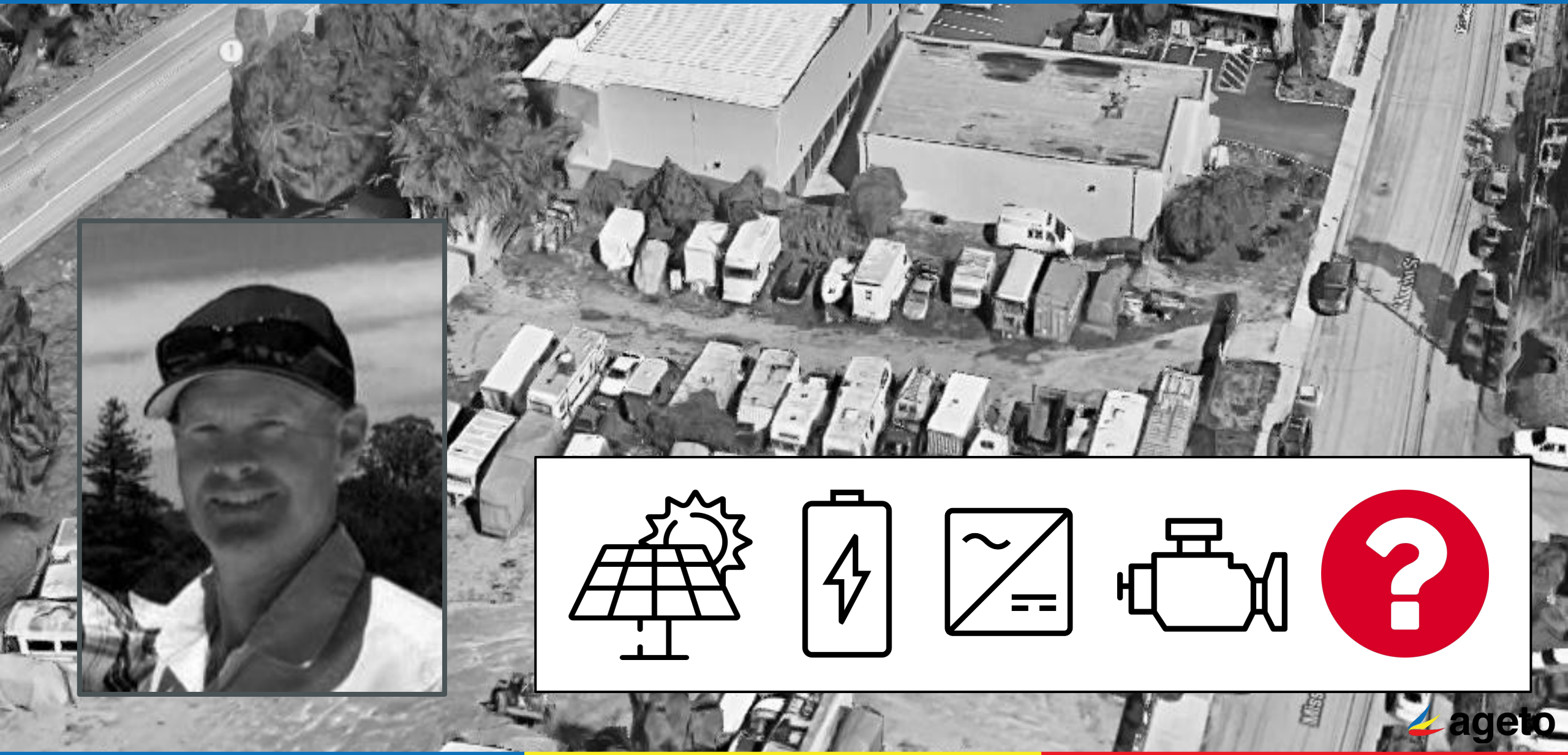
The Problem



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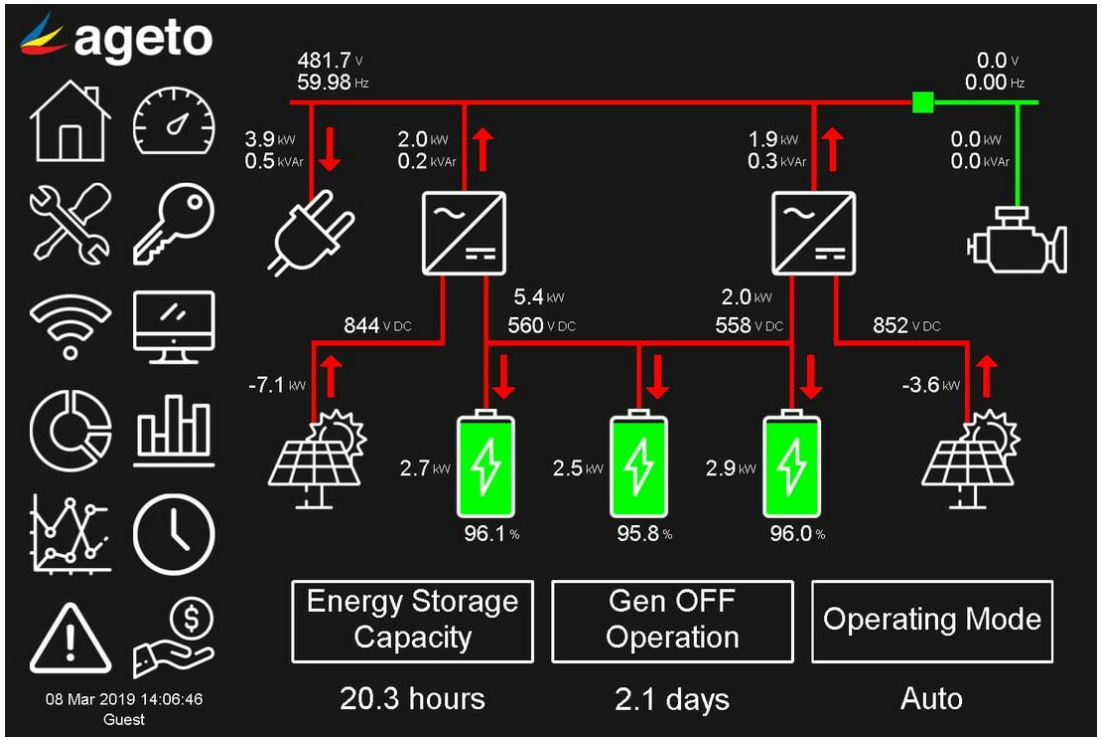
Project Profile: Sandbar Solar



Energy Resources:

ESS: (2) 30 kW Ideal Power 30C3
ESS: (3) 10 kW/30 kWh Avalon AFB2 Flow Battery
PV: (1) 38 kW Solar PV Array
PV: (1) 21 kW Solar PV Array
GEN: (1) 60 kW Basler DGC 2020 Natural Gas
RELAY: (1) SEL-547 Protective Relay

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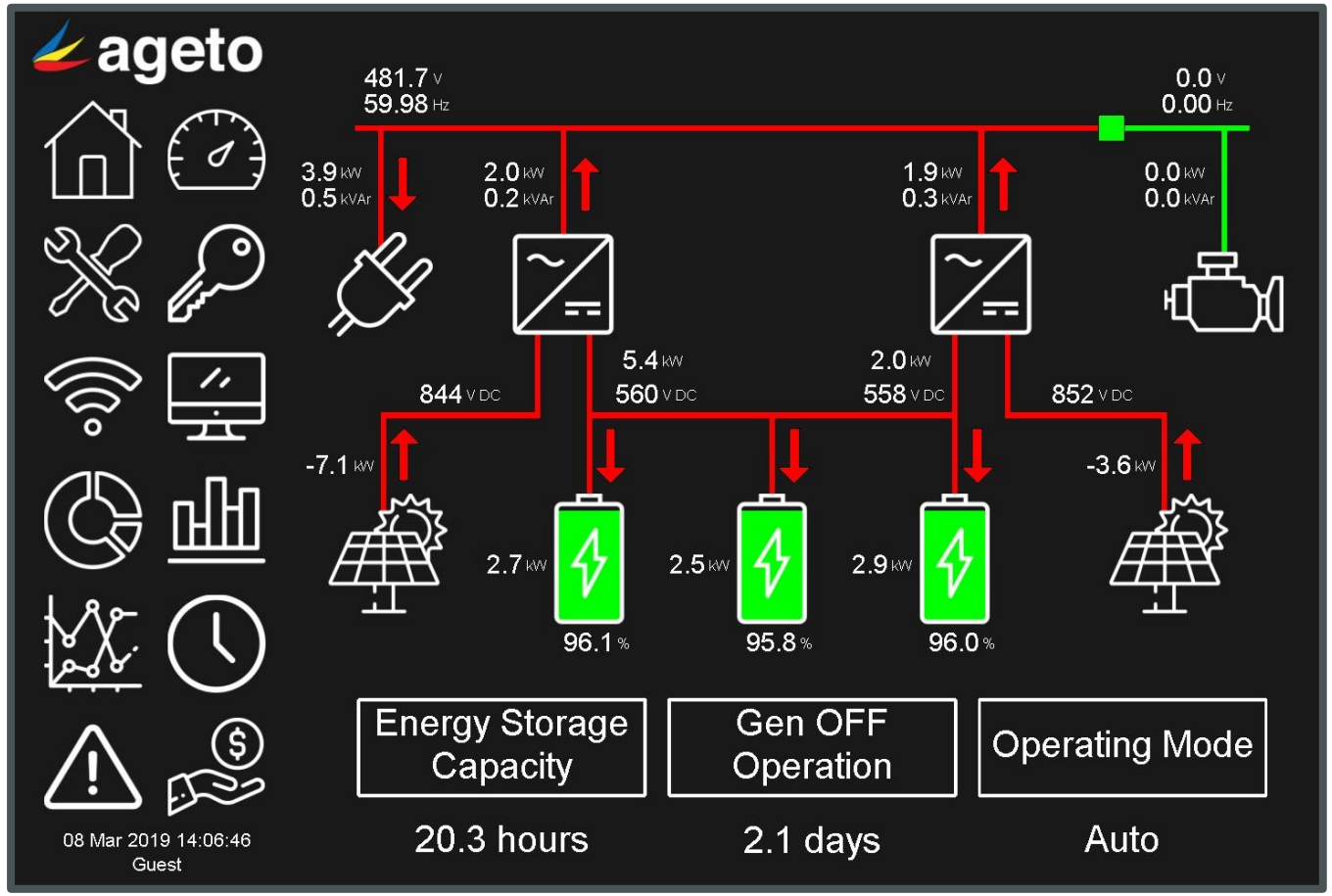
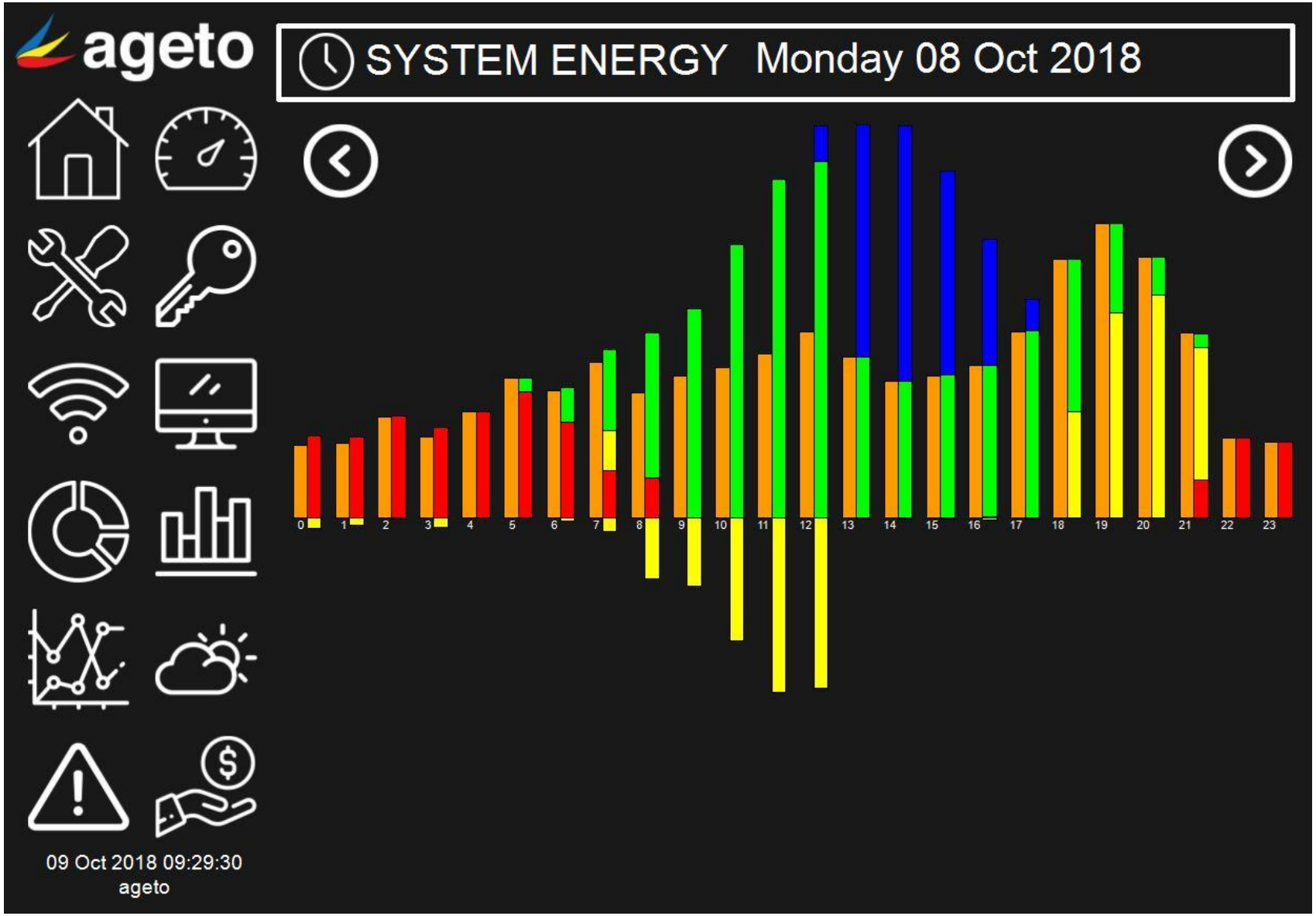
Project Photos



Daily Energy Usage



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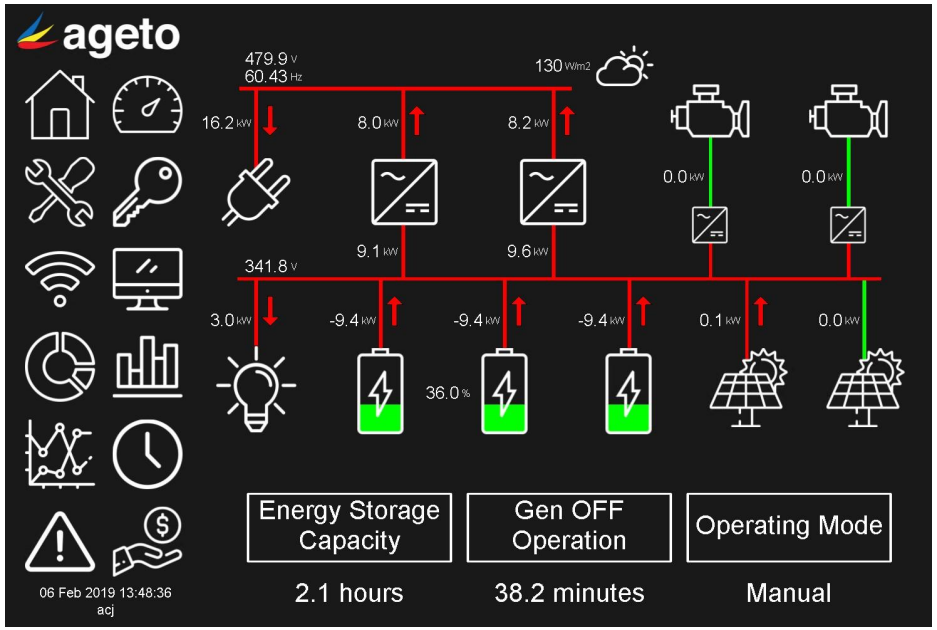
Winter Park, CO

Project Profile: Headwaters Center



HEADWATERS CENTER
ECOLOGY • EVENTS • EDUCATION

Energy Resources:

ESS: (2) 125 kW Princeton Power GTIB-480
ESS: (3) 172 kW/43 kWh Toshiba LTO Battery
PV: (10) Ampt V425-12 String Optimizer
PV: (1) 47 kW Solar PV Array
GEN: (2) 100 kW DeepSea 7310 Natural Gas
GEN: (2) Eltek Smartpack2 Rectifier
METER: (3) AccuEnergy AcuDC
MET: (1) RainWise PVmet 200 Weather Station

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Project Photos

Summary

- Control Solution Critical
- Not cookie-cutter
- Let’s build microgrids!

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