Unlocking the “5th Fuel”:
Increased Energy efficiency with Machine learning + big data
A BIT MORE ABOUT US

Founded in 2015
Team of 20
Offices in FRANCE & SINGAPORE

Selected customers

Accelerated by
Supported by
OUR SOLUTION

40% ENERGY COST SAVINGS

PATENTED INTELLECTUAL PROPERTY

ARTIFICIAL INTELLIGENCE + MACHINE LEARNING

BIG DATA

31/08/2018

BeeBryte - Irena - CONFIDENTIAL
**CASE STUDY**  SMART HVAC & REFRIGERATION SYSTEMS

**Smart Control:** BeeBryte dynamically adjusts indoor air temperature within comfort range and/or HVAC sub-systems regulation (chiller, pumps, fans...) - finding unprecedented setpoints based on self-learning models adapting to the actual system behavior and performances, -relatively to the building context: weather, occupation, business activity... -for higher energy efficiency & lower energy costs (peak-shaving, arbitrage)

**Condenser Optimization**
Dynamic control of condenser water flow rate to find best trade-off between reduced chiller consumption & higher fan consumption @ cooling towers

**Chilled Water Optimization**
Dynamic control of chilled water temperature and flow rate to find best trade-off between reduced chiller consumption & higher fan consumption @ Air Handling Unit

**Part Load Ratio**
Optimally distributed load between chillers. Each cooling capacity is constrained to ensure operation at the most efficient part load ratio

**Air-Side**
We intervene on this second cooling loop time-shifting part of the HVAC load by increasing or decreasing the temperature of the room(s) within your comfort range
Case Study

26% HVAC ENERGY CONSUMPTION REDUCTION
8% BUILDING ENERGY CONSUMPTION REDUCTION
10% UTILITY BILL SAVINGS

Consommation moyenne journalière en fonction de la temperature exterieure AVEC et SANS BeeBryte

Without BeeBryte

With BeeBryte

KWh
Join us in the electric revolution!

www.beebryte.com

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