OCP Engineering Workshop 25 September 2017 Dallas, TX



OCP Engineering Workshop – 25 September 2015 – Dallas, TX

Site Analysis Tool Romonet

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ROMONET

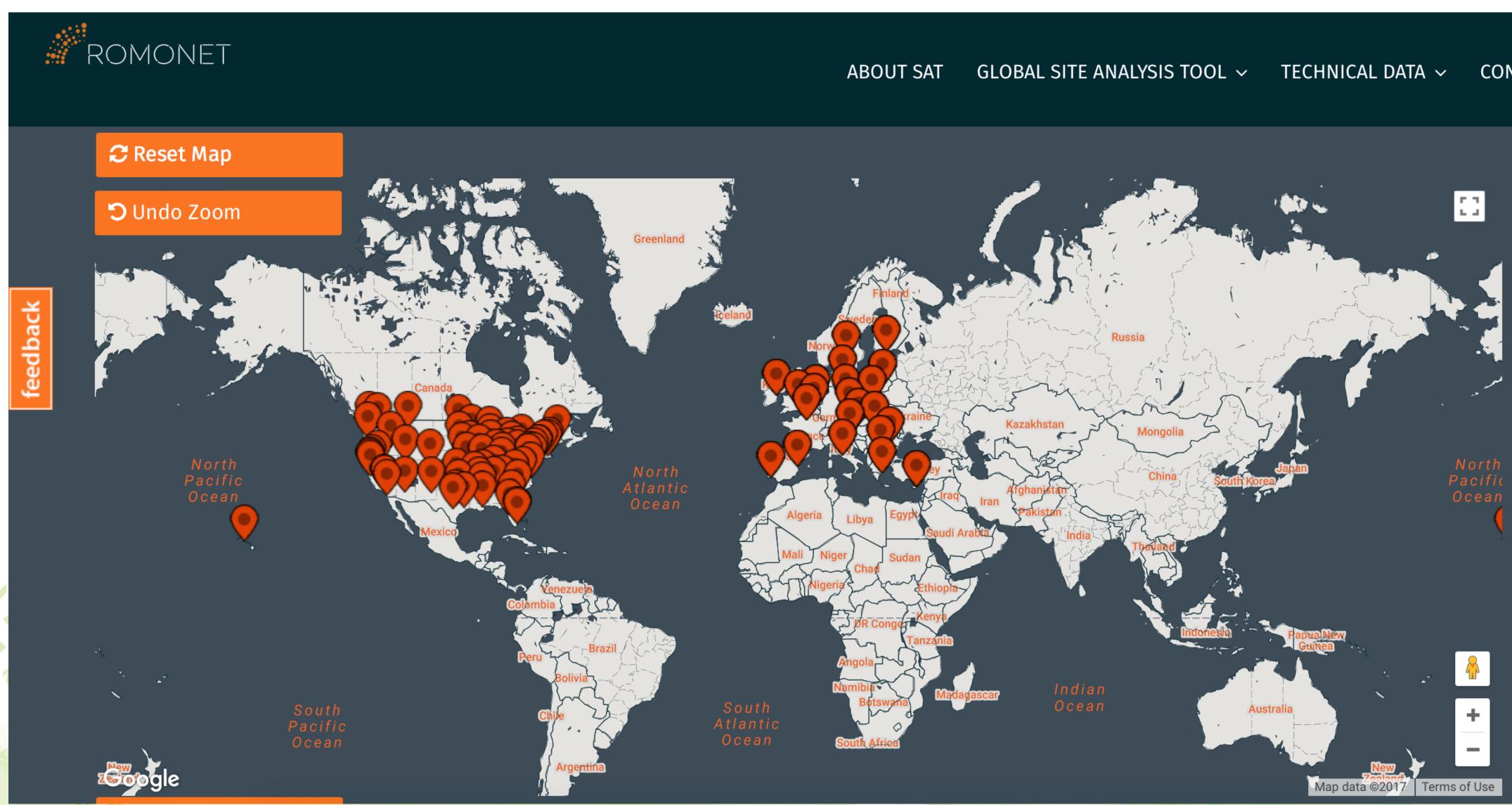


Romonet – Site Analysis Tool

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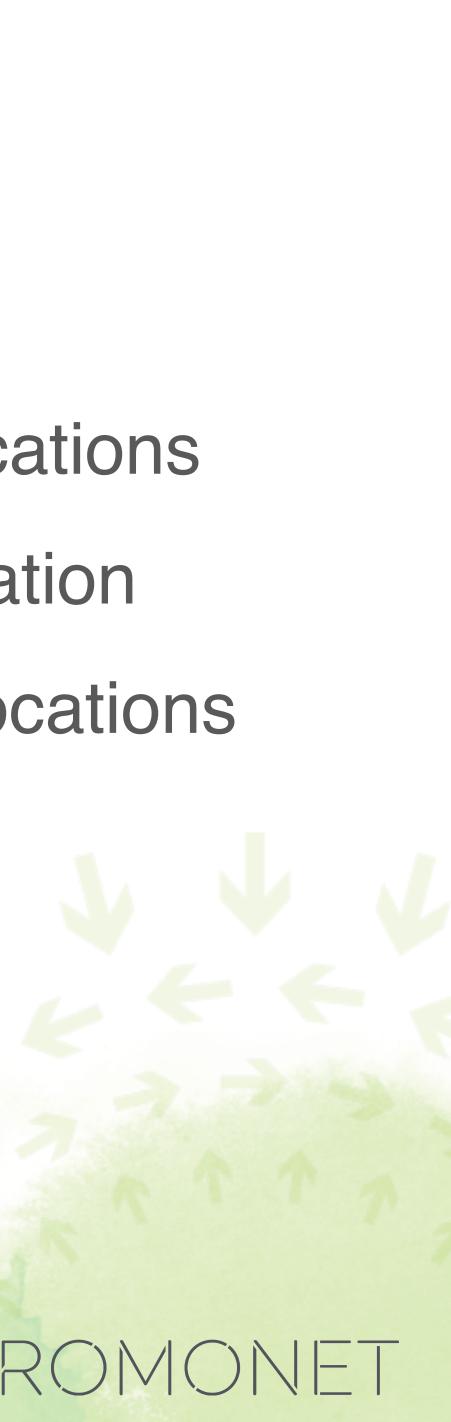
CONTACT



Site Analysis Tool – Analysis Options

- Data center view how an architype performs across all locations
- Location view how all architypes perform in a specific location
- Compare Locations compare performance in up to five locations

Use column sort to find trade-offs

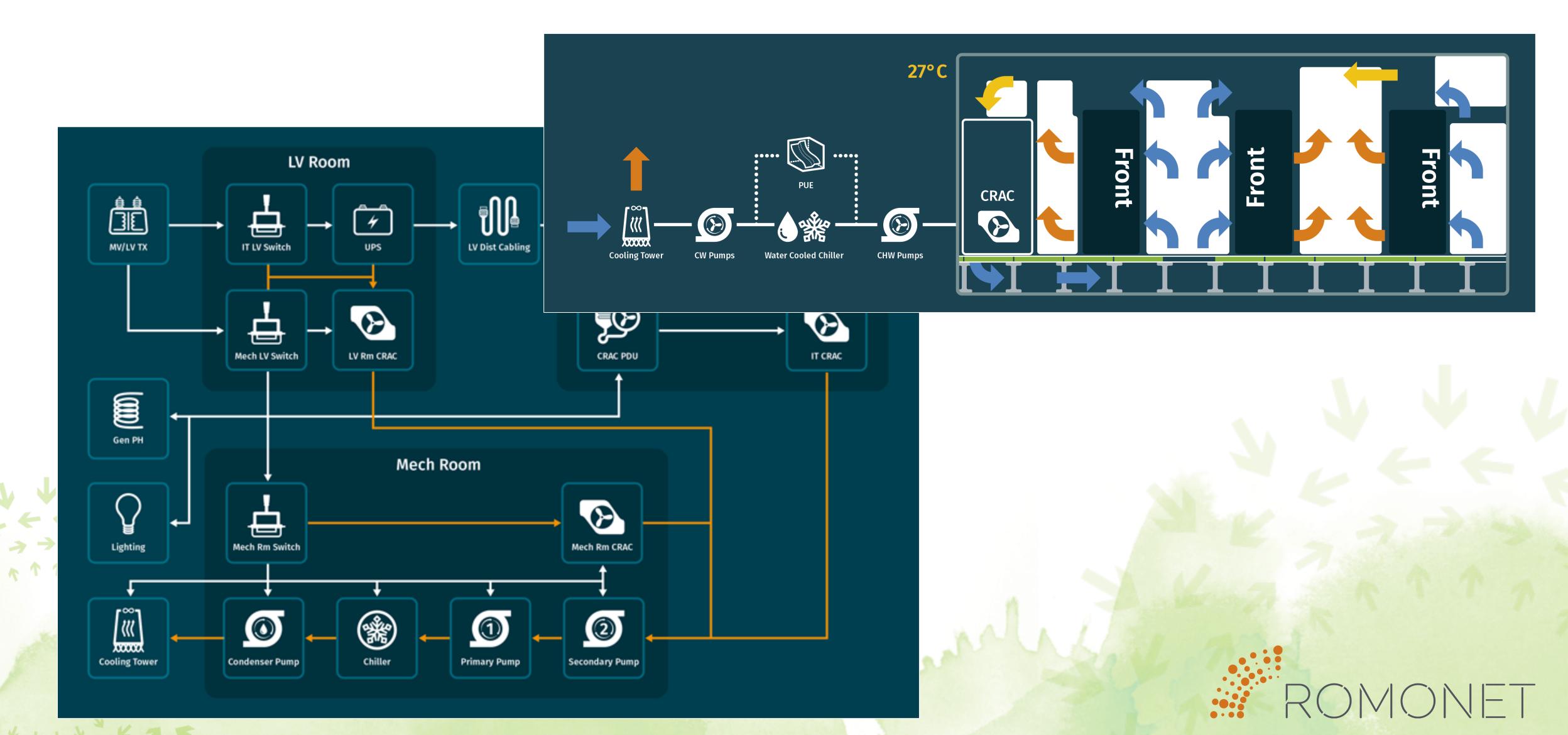


Site Analysis Tool – Analysis Output

- PUE annual average PUE at % load
- Annual Energy Cost based on % load
- Total Annual Energy annual energy consumption GWh
- CO₂e total annual CO₂e emissions
- Utility Cost average grid energy per location \$/kWh
- PUE Surface Plot PUE under all load's/OAT's



Site Analysis Tool – Predictive Models



Site Analysis Tool – Predictive Model

- 1MW all models are sized to 1MW IT capacity
- TMY Simulation fully TMY location data used for simulation
- 2N/N+1 electrical / mechanical resilience (Tier 3)
- ASHRAE R target supply temperature
- Single Hall non or partially contained hot/cold aisle

Over 1964 years of hourly simulation data!



Site Analysis Tool – Additions

- OCP an OCP 'style' model based on OCP data center 'spec'
- H_2O annual water consumption as an output
- New Locations Asia / South America / Canada
- CO₂e total Annual CO₂e emissions
- Utility Cost average grid energy per location \$/kWh



Free for anyone to use!





SITE ANALYSIS TOOL BY ROMONET





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OPEN Compute Project

