



# SMART GRID ANALYTICS

## WITH MAKANA

Deploying new energy technologies in generation, transmission, and storage requires improved planning and decision making. Mobius Logic’s MAKANA solves this problem with its scalable and robust ML engine that is commercially available and in use by AFRL. MAKANA allows the USAF to focus on energy production and consumption modeling and gives users the ability to quickly reconfigure the system producing results in days, not months or years.

### MAKANA CAN ANSWER QUESTIONS SUCH AS

- What happens if I lose all my wireless transmission lines?
- What is the best location in the grid to place my storage units?
- What is the effect of introducing long duration energy storage technology into the grid?
- What is the risk on energy production if solar-generated energy in the western part of my grid loses 20% of its production capability?

#### UNIDIRECTIONAL TRADITIONAL GRID



TRADITIONALLY, POWER FLOWS FROM PRODUCER TO CONSUMER IN A LINEAR SYSTEM.

#### MULTI-DIRECTIONAL SMART GRID

TODAY, THE REIMAGINED ENERGY GRID IS MULTIDIRECTIONAL, NECESSITATING ONGOING DYNAMIC OPTIMIZATION FOR A COMBAT CREDIBLE ENERGY SYSTEM.

