Improve Travel Time & Reduce Delays

Improve Safety

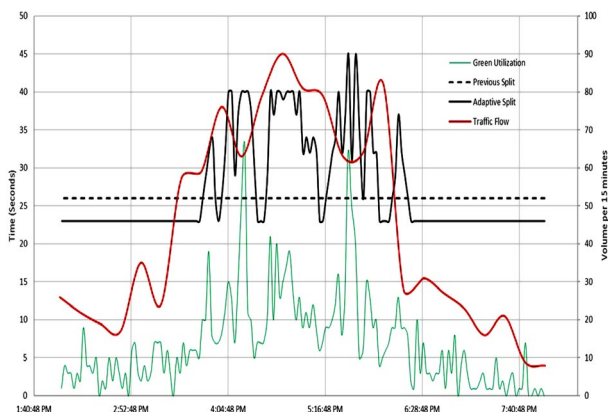**Reduce Harmful Emissions**

SynchroGreen®

SynchroGreen by Cubic is the industry's premier real-time adaptive traffic signal control technology. SynchroGreen-optimized signal timing maximizes the use of available roadway capacity. Our field-proven technology reduces travel time, delays and stops for all road users while simultaneously decreasing emissions.

SynchroGreen allocates time to each vehicle and pedestrian phase in real time, keeping your city moving while meeting all National Standards. SynchroGreen takes a holistic approach when optimizing traffic signals by considering side-street and pedestrian traffic in addition to mainline traffic..

How Does SynchroGreen Work?

SynchroGreen does not require additional external hardware; it is a software solution that downloads commands to the traffic controllers. SynchroGreen allows the user to customize the algorithm to accommodate a variety of scenarios and test different settings before deployment. SynchroGreen will enable thresholds for min./max. green time and rate of change (to smooth out spikes). SynchroGreen can be set to optimize for both single corridors, crossing corridors and grid networks , and configure triggering mechanisms that apply to both isolated intersections and corridors.

SynchroGreen Timing vs. TOD Coordination Timing

KEY FEATURES

REAL-TIME ADAPTIVE SIGNAL CONTROL

» Adjusts traffic signal timing plans in realtime based on current traffic demands.

» Optimizes signal timing (cycle, offset and split) for normal traffic flow or unpredictable surges due to accidents, road closures, or special events.

SMART SYSTEM & EASY SETUP

» Designed for easy startup and reliability.

» Accessible from a web-based interface or Windows application.

» Returns traffic controllers to normal time-of-day operation if the system is shut down.