Energy Management System Project Update

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Budget and Priorities Working Group

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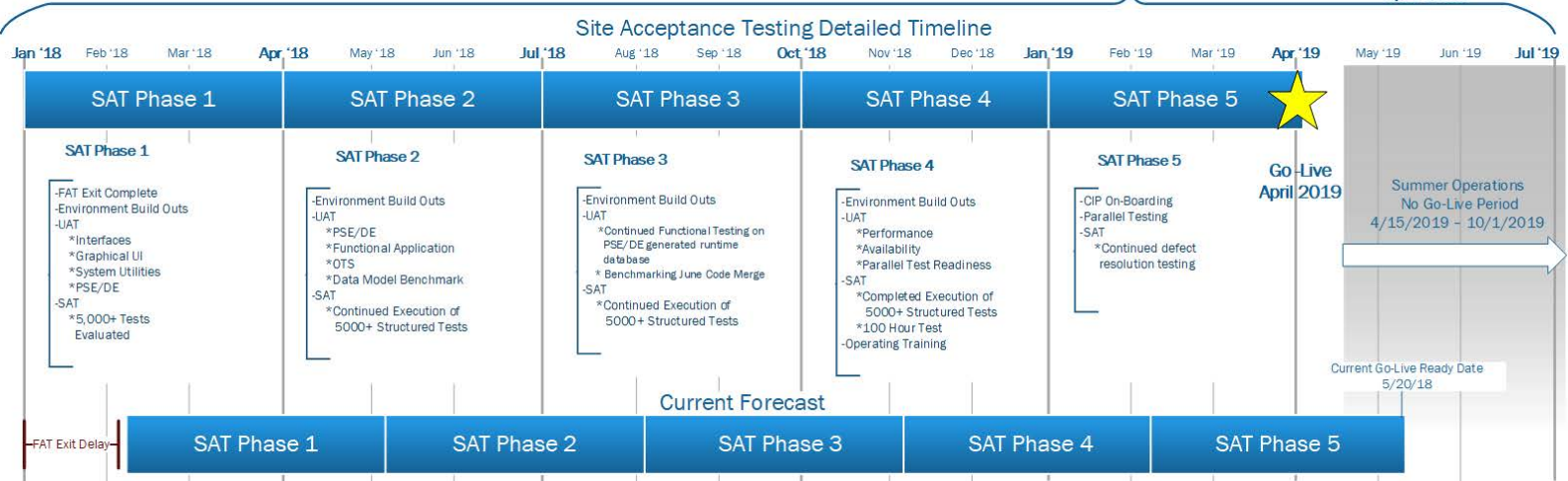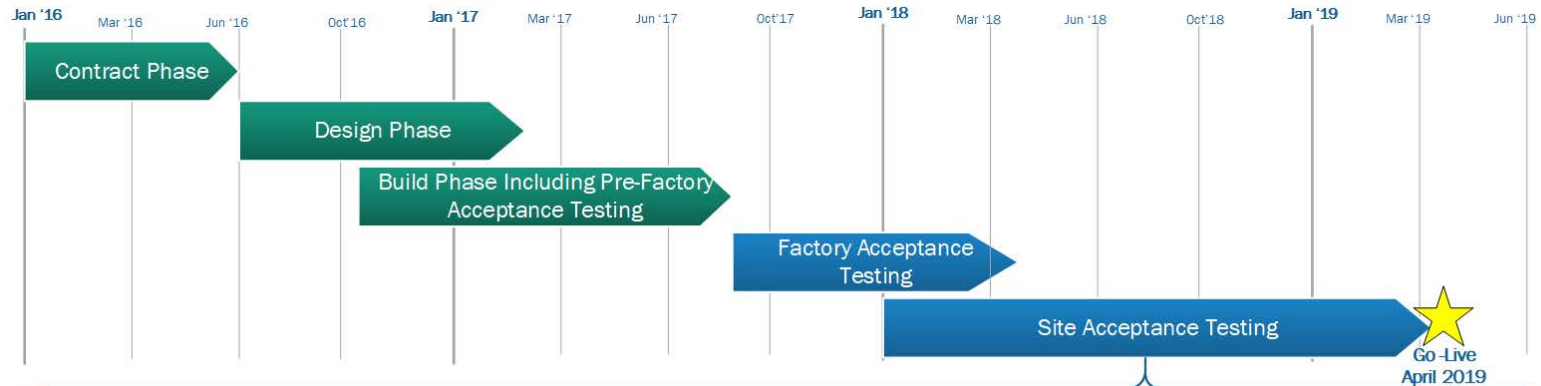# Project Overview

Project Overview

- The NYISO currently has a combined Energy Management System (EMS) and Business Management System (BMS) developed by ABB, collectively referred to as Ranger

- The Ranger system was initially placed into operation in 2005, upgraded in 2007, and incrementally enhanced through marketplace and business directed initiatives

- The Ranger system runs on a dedicated proprietary hardware platform that was installed in 2011

Project Overview (Continued)

- In November 2014 the Structure Group was engaged to assist in developing a strategy and roadmap for replacing the Ranger System

- The Assessment Team analyzed the proposals and determined
  - Functionality of all of the alternatives were competitive (ABB, Siemens, and Alstom)
  - ABB solution offered lower project cost, reduced schedule, and least risk

- In June 2016, an ABB contract was signed for delivery of the new Network Manager (NM) solution

Project Timeline, Status, and Budget

ISO NEW YORK INDEPENDENT SYSTEM OPERATOR

Project Timeline

Project Status

- At Risk for April Go-Live
    - EMS and BMS systems exited factory testing six weeks later than anticipated
    - Data Engineering system has not exited factory testing to date
        - Delayed by 5 months
    - Site testing tracking behind schedule due to the delays in exiting factory testing
- On Track for April Go-Live
    - Server builds–outs and CIP on-boarding
    - Operator Training
    - Deployment plans and execution

April Go-Live Readiness

- Current Go-Live Ready Date is May 20th

- NYISO Continues to Target April for Go-Live
  - ABB resources stationed on-site to reduce defect resolution turn around
  - Utilizing NYISO resources for defect resolution where applicable
  - ABB off-site staff working off hours to resolve defects
  - Daily meetings reviewing testing progress
  - Daily meetings reviewing and prioritizing defects

Project Budget

- Total Project Budget is $33.7 million, which includes the following costs
  - Software and Customizations – On budget
  - Factory and Site Implementation Services – On budget
  - Professional Services – On budget
  - Hardware - On budget
  - Internal Labor – Under budget

Next Steps

NEW YORK
INDEPENDENT
SYSTEM OPERATOR

Next Steps

- Exit Factory Testing

- Continue Site Acceptance Testing

- Continue Hardware Build Outs

- Operator Training

- Go-Live Readiness

Questions?