Town of Snowmass Village
Monitoring-based Commissioning (MBCx)
Anne Martens, Town of Snowmass Village
PO Box 5010
Snowmass Village, CO 81615
970.922.2310
Year – 2014
MBCx of Existing Buildings and Snowmelt Systems:
SGM was hired to provide comprehensive commissioning of existing Town facilities and four critical roadway snowmelt systems. SGM teamed with EEI and CLEER on this project and incorporated real-time energy monitoring into the process to better inform the commissioning process and allow for ‘continuous commissioning.’ This project is currently underway but already nearly $215,000 (~50%) annual cost savings have been identified and over $180,000 of utility rebates have preliminary approval.

Glenwood Springs Regional Wastewater Treatment Facility
Buddy Burns, Water and Wastewater Director
Glenwood Springs, CO 81601
970.384.6344
Year - 2013
Retrocommissioning of HVAC and Control Systems:
SGM retrocommissioned brand new systems in order to improve comfort and reduce maintenance issues. Issues identified and repaired/resolved during retrocommissioning included design oversights, construction deficiencies and maintenance issues. The discomfort, hassle and cost caused by the poor-performing HVAC system demonstrated the need and value in performing commissioning during the design and construction process. SGM maintains remote access to BAS controls and energy monitoring to assist in ‘continuously commissioning’ the facility.

The Ritz Carlton
Craig Huff, Chief Engineer
728 West Lionshead
Vail, CO 81657
970.477.3730
Year - 2012
Recommissioning of HVAC and Control Systems:
SGM is currently providing Re-commissioning and energy data management (EDM) services. SGM also performed an energy assessment. Energy savings of over 20% have been identified in the areas of building envelope, HVAC control upgrades, lighting and preventative maintenance. Implementation is currently in progress and actual savings to date are approximately 10-15%. SGM maintains remote access to BAS controls and energy monitoring to assist in ‘continuously commissioning’ the facility.

Grand River Health – Battlement Mesa Office Building
Robert Wilson, Plant Ops Supervisor
501 Airport Road
Rifle, CO 81650
970.625.1510
Year - 2013
Proof of Performance Commissioning of HVAC, Lighting, and Control Systems:
SGM was hired to provide third party commissioning services for the design and construction of the Battlement Mesa Office building. SGM made suggestions for a more efficient and functional design.
During construction SGM will monitor the installation, the equipment start up, the testing and balancing, perform the functional testing of the HVAC equipment, BAS system, lighting and lighting controls and document review. SGM will verify for the owner that the systems are installed and functioning as designed.

Riverside Professional Building
Craig Helm, Owner
2700 Gilstrap Court
Glenwood Springs, CO 81601
970.945.6100
Year - 2010
Recommissioning of HVAC and Control Systems:
SGM was hired to provide an energy audit and Re-commissioning of the Riverside Professional Building. Energy savings of over 50% has resulted from changes in the areas of building envelope, HVAC control upgrades and strategies and preventative maintenance. SGM performed functional testing, document review, energy modeling of the building for control strategies, design of server ventilation systems, and provided specifications for preventative maintenance and control strategy changes.

Aspen School District
John Maloy, Superintendent
235 High School Rd
Aspen, CO 81611
970.925.3760
Year - 2012
Recommissioning of HVAC and Control Systems:
SGM was hired to provide Re-commissioning and EDM services for the Aspen Middle and the Aspen High School. Energy savings of 25% to 30% were identified in the areas of building envelope, HVAC control upgrades, lighting and preventative maintenance. Implementation of recommendations is currently in progress; however savings realized over Spring Break alone exceeded $4,000.

Shea Garfield County Office Building
Dave Witte, Director of Development
143 Diamond Ave.
Parachute, CO 81635
303.486.1371
Year - 2012
Proof of Performance Commissioning of HVAC, Lighting, and Control Systems:
SGM was hired to provide third party commissioning services for the design and construction of the Shea Garfield County Office building. SGM made suggestions for a more efficient and functional design. During construction SGM monitored the installation, the equipment start up, the testing and

“...our 15,000sf office building was experiencing comfort issues, frequent HVAC break downs and high utility costs. The building which was only 5 years old had been designed and built with an upper end HVAC system so we knew something was wrong. We initially worked with the original HVAC designers and fixed a few duct issues, which helped but did not resolve many of the problems. At that point we hired SGM to do a complete inspection of the HVAC system and model the building. The net result of this work has reduced our combined gas, electric and maintenance bills by more than 50% while improving the building comfort.”

Craig Helm, Part Owner/Manager
Riverside Professional Building
MEP Team’s Commissioning Projects

balancing, performed the functional testing of the HVAC equipment, BAS system, lighting and lighting controls, and document review. SGM verified for the owner that the systems were installed and functioned as designed. Trend logs are reviewed periodically to ensure systems meet requirements for the Xcel Energy rebates.

Grand River Health – Rifle Hospital
Robert Wilson, Plant Ops Supervisor
501 Airport Road
Rifle, CO 81650
970.625.1510
Year - 2014
Recommissioning of HVAC and Control Systems:
SGM was hired to provide monitoring-based recommissioning for the hospital. As an approved engineering firm under Xcel Energy’s Recommissioning Program, the recommissioning service is eligible for a 50% rebate. Real-time energy monitoring is integrated into the recommissioning process to more accurately identify energy savings. Energy savings of 25% to 30% were identified in the areas of building envelope, HVAC control upgrades, lighting and preventative maintenance.

St. Regis Aspen
Ben Bradway, Chief Engineer
315 East Dean St
Aspen, CO 81611
970.920.3300
Year - 2012
Proof of Performance Commissioning of New Fan Coil Terminal Units:
SGM was hired to provide third party commissioning services for the HVAC upgrades, specifically the chilled water system for the rooms of the St. Regis Aspen Resort. During construction SGM monitored the installation, the testing and balancing, performed the functional testing of the new FCUs, chilled water pumps and provided document review. SGM verified for the owner that the systems were installed and functioning as designed.

Dancing Bear Aspen
David DeMeuleanere, Director of Maintenance
411 S Monarch Street
Aspen, CO 81611
970.920.2500
Year - 2013
Recommissioning of HVAC and Control Systems:
SGM provided re-commissioning services to reduce utility costs and increase guest comfort. Initial energy savings of 20% were identified in the areas of building envelope, HVAC control strategies, lighting and preventative maintenance. Recommendations are now in process. SGM maintains remote access to the BAS controls and the EDM (Energy Data Monitoring) systems to assist in ‘continuously commissioning’ the facility.
MEP Team’s Commissioning Projects

Town of Parachute
Robert J. Knight, Town Administrator                                Jeff Dickinson, CLEER
222 Grand Valley Way                                              0504 Cristal Circle
Parachute, CO 81635                                               Carbondale, CO 81623
970.285.7630                                                      970.704.9200
Year - 2011
Retrocommissioning of HVAC and Control Systems:
SGM was hired to provide retro-commissioning of the Town Hall HVAC system as a sub consultant to CLEER. Tony and Mike Ogburn (CLEER) made recommendations in the areas of HVAC control strategies and preventative maintenance. Mike set up EDM to lower demand and use of electricity. Savings to date from all of the Town’s efforts are exceeding 25%.

Town of Silt
Gerry Pace, Public Works Director                                  Jeff Dickinson, CLEER
231 N 7th St.                                                      0504 Cristal Circle
Silt, CO 81652                                                     Carbondale, CO 81623
970.876.2353                                                      970.704.9200
Year - 2011
Retrocommissioning of HVAC and Control Systems:
SGM was hired to provide retro-commissioning of the Town Hall HVAC systems as a sub consultant to CLEER. Tony and Mike Ogburn (CLEER) made recommendations in the areas of HVAC control strategies and preventative maintenance. Mike set up EDM to lower demand and use of electricity. Savings to date from all of the Town’s efforts, including a PV system are exceeding 30%.

Town of New Castle
John Wenzel, Public Works Director                                 Jeff Dickinson, CLEER
P.O. Box 90                                                       0504 Cristal Circle
New Castle, CO 81647                                              Carbondale, CO 81623
970.989.0002                                                      970.704.9200
Year - 2009
Retrocommissioning of HVAC and Control Systems:
SGM was hired to provide retro-commissioning of the Town Hall HVAC systems as a sub consultant to CLEER. Tony and Mike Ogburn (CLEER) made recommendations in the areas of ductwork changes for Council Chambers room, HVAC control strategies and preventative maintenance. Mike set up EDM to lower demand and use of electricity.

Review of Heat Recover Systems
SGM was hired to provide review of the Public Works Administration buildings heat recovery (HR) systems as a sub consultant to CLEER. Tony and Mike Ogburn (CLEER) made recommendations in the areas of ductwork changes for the HR system, HVAC control strategies and preventative maintenance. Mike set up EDM to lower demand and use of electricity. Issues were comfort and indoor air quality (IAQ), ductwork, heating and cooling occurring simultaneously and maintenance issues. Recommendations included control strategies, ductwork changes and maintenance solutions. Implementation of the ductwork changes was not done due to funding constraints.