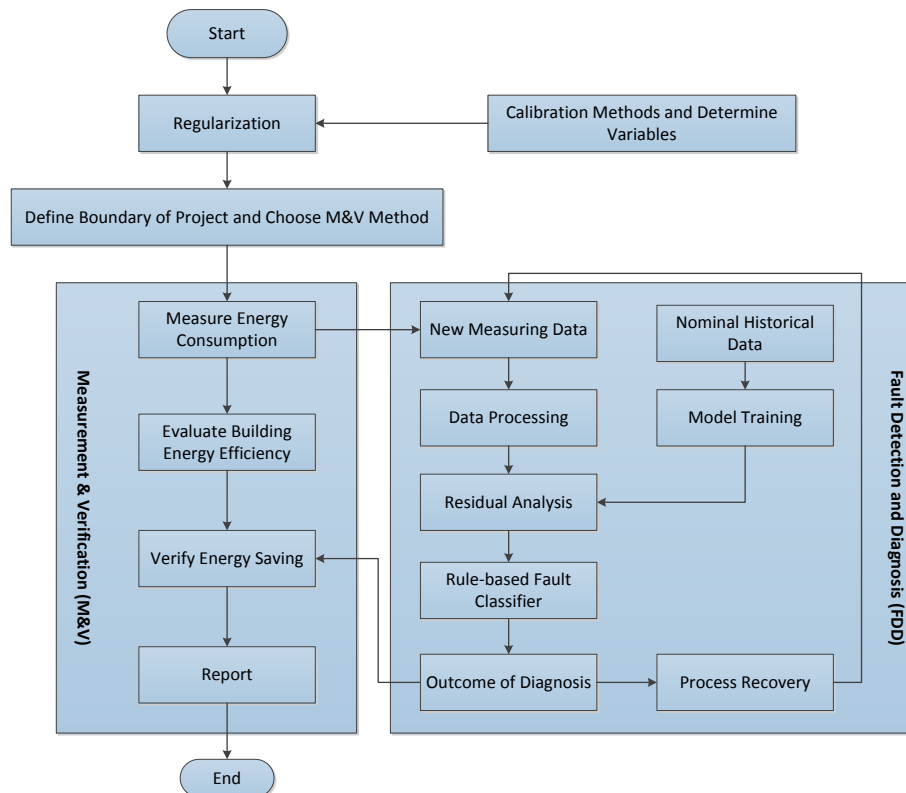


Measurement and Verification of Chilled-water Plant

A water cooled central chiller plant is usually used to cool the space within a large building. It typically contributes 40-60% of the total energy consumption of the building, which is several times the plant capital cost during its lifetime. In order to verify the system performance effectively and ensure energy savings are achieved, a reliable measurement system that continuously tracks plant behaviour and plant performance is required. A rigorous method in measuring and verifying energy savings could lead to operational improvement and is instrumental in behavioral change programs, which could potentially lead to more significant energy savings. In this project, we will develop M&V related technologies for Singapore, and identify requirements to stipulate in M&V contract to ensure the set-up of robust M&V system for accurate verification of energy savings in commercial buildings with minimal additional costs.



Scheme of Measurement and Verification of Chilled-water Plant