Qaidam Basin in Qinghai Province has rich multiple complex resources with salt lakes as the core. These resources form a special condition for the development of green economy, having rare and particular nature. The Qaidam work is waiting to be done by scientific and technological innovation, with the guidance of low carbon, energy saving, comprehensive and recycling utilization. The development must be conducted on the following: energy(heat) storage materials of potassium, sodium, lithium and magnesium; modified materials of high purity magnesia, magnesium-based flame retardance, crystal whisker; alloy materials of magnesium-based light metals, building materials of magnesium cement; vinyl chloride series organic materials formed by combination of salt lake chloride ions with organic resources of coal and natural gas, etc. — all of salt lake featured materials industry system. Large-scale multiple utilization of renewable energy must be carried out such as solar and wind energy, and water power. Green industry system must be set up with new type green chlor-alkali industry and green energy source as the core. Through all above the comprehensive utilization level of salt lake resources can be improved, and the green sustainable development in Qaidam Basin can be realized.