Topics

• Coal and Gas Industries in Australia
  a. Overview of Australian coal and gas industries
  b. Resources, market, and utilization of coal and gas
  c. Coal seam gas industry in Queensland
  d. Carbon capture and storage in Australia
  e. Safety, environmental and social impact of mining in Australia
  f. Site visit to Queensland Energy Resources, CS Energy Callide Power Station-Callide Oxyfuel Project

• Water Treatment
  a. Wastewater industry and research
  b. Site visit to Queensland Center for Advanced Technology

• Biofuel
  a. Cellulose biomass resources and utilization
  b. Ethanol and biofuels
  c. Biodiesel from Pongemia oil seeds
  d. Biogas from landfills
  e. Site visit to Pinjarra Hills biofuel laboratory

• Solar Energy
  a. UQ Solar Array
  b. Solar photovoltaic system and photo-catalysis

• Energy Storage
  a. Energy storage R & D at UQ
  b. Site visit to Redflow: Energy Storage Systems

• Economic Analysis
  a. Economic modeling and gas price forecasting
  b. Electricity market
  c. Energy economics in Australia