Chemical Factory Design Challenge Chemical Reaction: Chemical Reaction: Carbon + Ammonia - (CH_4N_2O) Dioxide (NH_3) (CO) Temperature (°C): 300 400 500 600 700 800 Methane (CH_4) Carbon Dioxide (CO_2) **Chemical Reaction:** Water Carbon Honoxide Water \longrightarrow (H₂O) Carbon + Hydrogen (H₂) Water (H_2O) (CO_2) Monoxide & Hydrogen Carbon (H_2) Hydrogen (CO) (H₂) Ammonia (NH_3) Chemical Reaction: Catalyst: Hydrogen Oxygen Water Nitrogen Electricity (H_2O) (O_2) (H_2) (N_2) **Platinum** Iron