Climate Change Information Document

Climate change refers to long-term shifts in temperatures and weather patterns. These shifts may be r

Key Facts about Climate Change:

- 1. The Earth's average temperature has increased by about 1.1°C since the pre-industrial era.
- 2. Carbon dioxide levels in the atmosphere are higher than at any point in the last 800,000 years.
- 3. The rate of sea level rise has doubled from 1.4 mm per year throughout most of the 20th century to
- 4. The Arctic is warming about twice as fast as the global average.

Impacts of Climate Change:

- More frequent and intense drought, storms, heat waves, rising sea levels, and melting glaciers
- Oceans are warming, becoming more acidic, and losing oxygen
- Plants and animals are migrating to higher elevations or toward the poles
- Some species are at increased risk of extinction
- Food security threatened in many regions

Mitigation Strategies:

- Transition to renewable energy sources (solar, wind, hydro)
- Improve energy efficiency in buildings, transportation, and industry
- Protect and restore forests and other carbon sinks
- Develop sustainable agriculture practices
- Implement carbon pricing mechanisms

The Paris Agreement, adopted in 2015, aims to limit global warming to well below 2°C, preferably to 1

Recent studies show that to meet the 1.5°C target, global carbon emissions need to be reduced by 45