## Food in the UK **Resource Challenges** Water in the UK **Growing Demand Growing Demand** Impact of Demand Resources are things that humans require for life or to make our lives **Deficit and Surplus** easier. Humans are becoming increasingly dependent on exploiting these The UK imports about 40% of Foods can travel long distances The average water used per resources, and as a result they are in high demand. The north and west have a water its food. This increases people's (food miles). Importing food adds household has risen by 70%. This surplus (more water than is Significance of Water carbon footprint. to our carbon footprint. growing demand is predicted to required). There is growing demand for + Supports workers with an income increase by 5% by 2020. Resources such as food, energy and water are what is needed for basic The south and east have a water greater choice of exotic foods + Supports families in LICs. This is due to: human development. deficit (more water needed than is + Taxes from farmers' incomes A growing UK population. needed all year round. actually available). Foods from abroad are more contribute to local services. Water-intensive appliances. **FOOD** WATER **ENERGY** More than half of England is affordable. - Less land for locals to grow their Showers and baths taken. experiencing water stress (where Without enough A good supply of Many food types are unsuitable own food. Industrial and leisure use. People need a supply demand exceeds supply). nutritious food, energy is needed for to be grown in the UK. Watering greenhouses. - Farmers exposed to chemicals. of clean and safe people can become a basic standard of water for drinking, **Sustainable Foods** malnourished. This living. People need **Agribusiness Pollution and Quality** Water stress in the UK cooking and washing. can make them ill. light and heat for Water is also needed Farming is being treated like a Organic foods that have little Cause and effects include: This can prevent cooking or to stay for food, clothes and large industrial business. This is impact on the environment and are Chemical run-off from people working or warm. It is also other products. increasing food production. healthier have been rising. farmland can destroy habitats receiving education. needed for industry. + Intensive faming maximises the Local food sourcing is also rising in and kills animals. amount of food produced. popularity. **Demand outstripping supply** Oil from boats and ships + Using machinery which increases Reduces emissions by only poisons wildlife. The demand for resources like food, water and energy is rising so quickly the farms efficiency. eating food from the UK. Untreated waste from that supply cannot always keep up. Importantly, access to these Buying locally sourced food Only employs a small number of industries creates unsafe resources vary dramatically in different locations workers. supports local shops and farms. drinking water. - Chemicals used on farms damages A third of people grow their Sewage containing bacteria 1. Population Growth 2. Economic Development 💸 the habitats and wildlife. own food. spreads infectious diseases. Currently the global As LICs and NEEs develop AQA -Unit 2c Management Water Transfer population is 7.3 billion. further, they require more Global population has risen energy for industry. The Challenge of UK has strict laws that limits the Water transfer involves moving exponentially this century. LICs and NEEs want similar amount of discharge from water through pipes from areas of Global population is expected lifestyles to HICs, therefore factories and farms. surplus (Wales) to areas of deficit to reach 9 billion by 2050. they will need to consume Education campaigns to inform (London). **Resource Management** With more people, the more resources. what can be disposed of safety. Opposition includes: demand for food, water, Development means more Waste water treatment plants Effects on land and wildlife. energy, jobs and space will water is required for food remove dangerous elements to High maintenance costs. increase. production as diets improve. then be used for safe drinking. The amount of energy **Energy in the UK** Pollution traps catch and filter required to move water over **Resource Reliance Graph** pollutants. long distances. **Growing Demand Energy Mix** Consumption - The act of using up The UK consumes less The majority of UK's energy mix comes Energy in the UK (continued) resources or purchasing goods and from fossil fuels. By 2020, the UK aims for energy than compared to produce. Significance of Renewables **Exploitation** the 1970s despite a smaller 15% of its energy to come from **renewable** Carry Capacity - A maximum population. This is due to sources. These renewable sources do not number of species that can be + The UK government is investing New plants provide job the decline of industry. contribute to climate change. supported. more into low carbon alternatives. opportunities. **Changes in Energy Mix** + UK government aims to meet Problems with safety and Resource consumption exceeds 2009 2020 targets for reducing emissions. possible harm to wildlife. Earth's ability to provide! 75% of the UK's oil and + Renewable sources include Nuclear plants are expensive. gas has been used up. 3. Changing Technology and Employment wind, solar and tidal energy. Coal consumption has Locals have low energy bills. - Although infinite, renewables are The demand for resources has driven the need for new technology to declined. Reduces carbon footprint. still expensive to install. reach or gain more resources. UK has become too Construction cost is high. - Shale gas deposits may be Gas Renewable More people in the secondary and tertiary industry has increased the dependent on imported Visual impacts on landscape. exploited in the near future Nuclear demand for resources required for electronics and robotics. Noise from wind turbines. energy.