



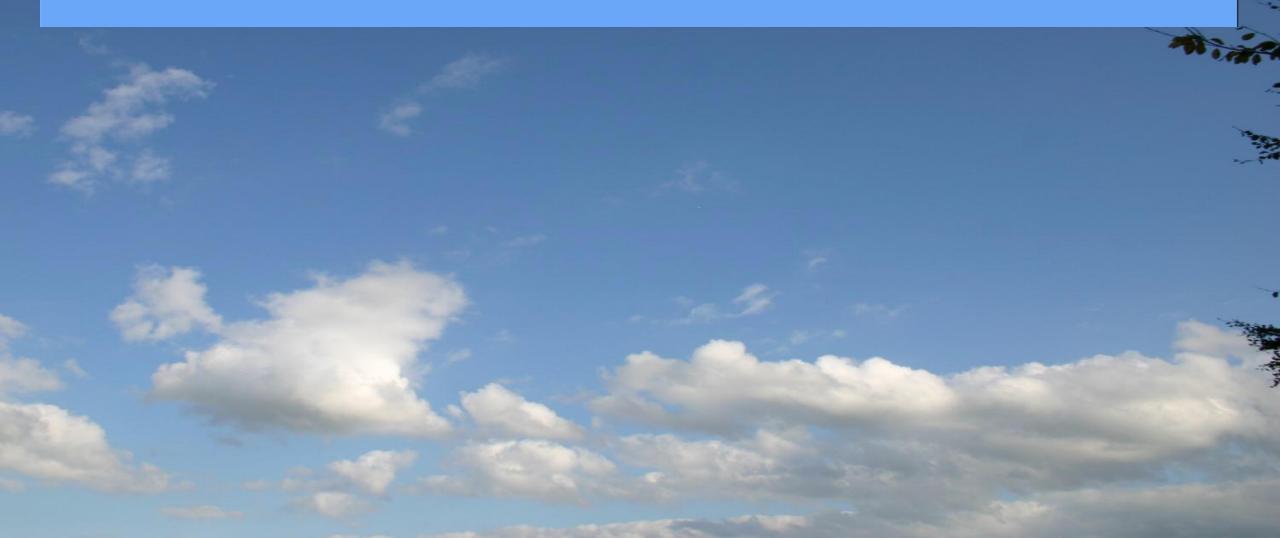
### الدولي السادس للبيئة Ajman 6<sup>th</sup> International **Environment Conference**

## **CAN WE SUSTAIN THE ATMOSPHERE**

TOWARDS>>> SHAPING THE FOR ENVIORMENTAL 

**Dr. Suhail Al Ghfeli CNHS – Zayed University** 

## **CAN WE SUSTAIN THE ATMOSPHERE**

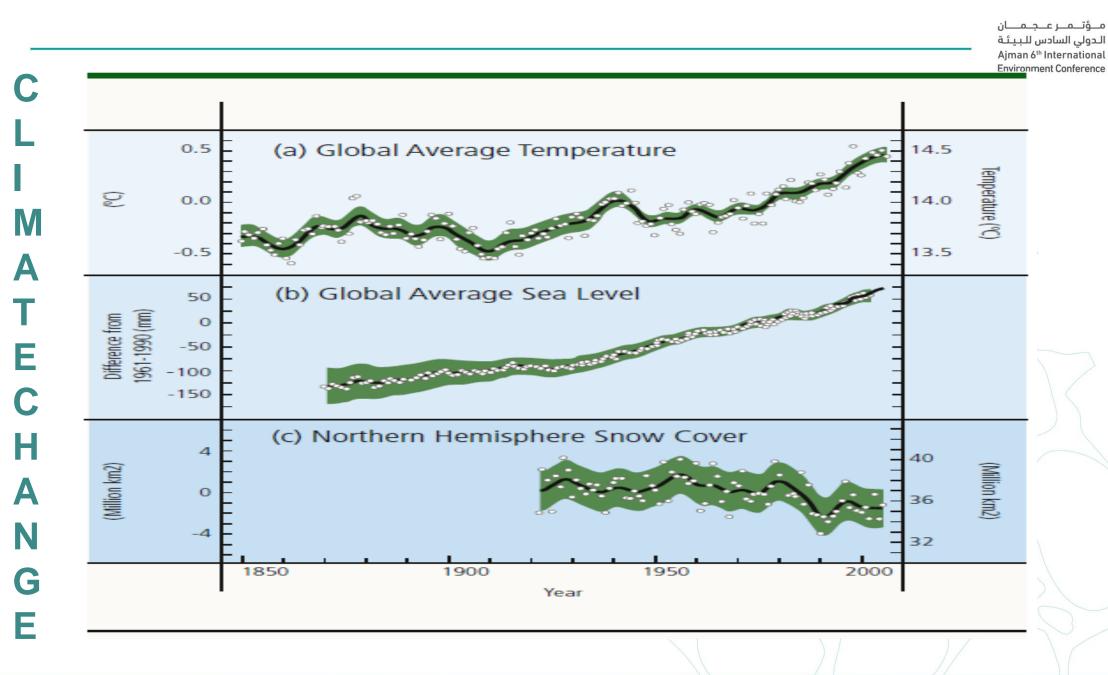




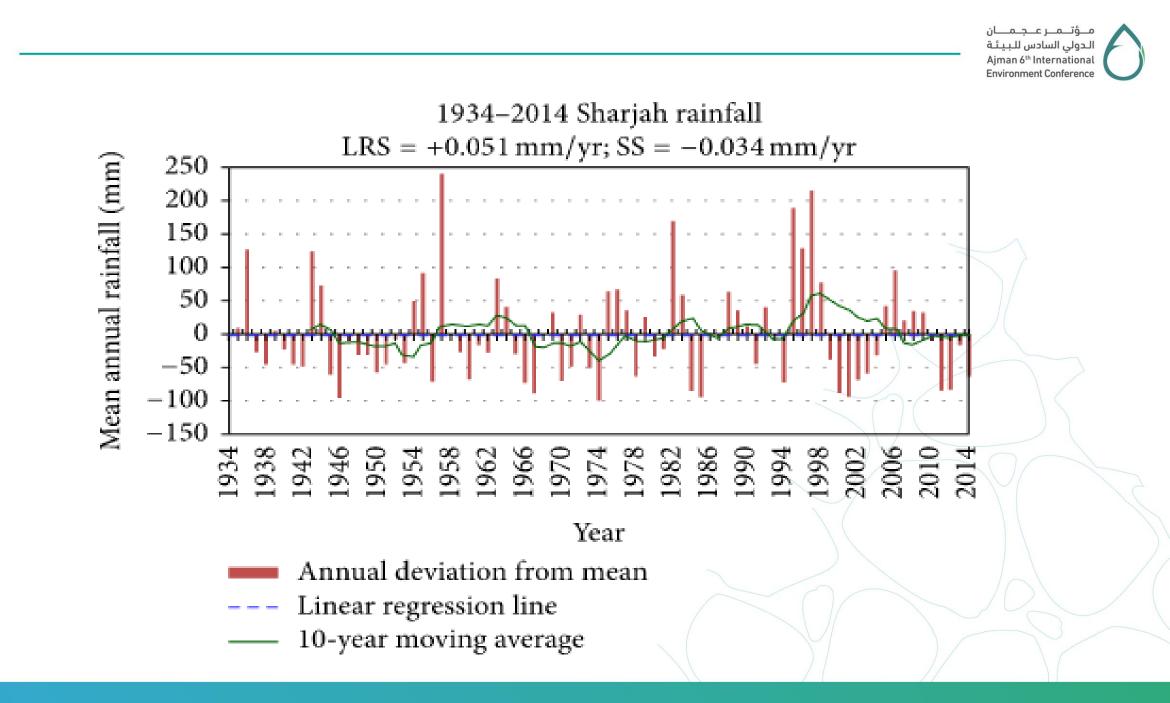
Layers of Earth's Atmosphere 1200°C **EXOSPHERE** 800 to 3000 km Spaceship Satellite -86,5 to 1200°C THERMOSPHERE 80-90 to 800 km -2,5 to -86,5°C **MESOSPHERE** 40-50 to 80-90 km -56,5 to -2,5°C **STRATOSPHERE** 11 to 50 km 0 to 12-18 km 15 to -56,5°C **TROPOSPHERE** 

مـــؤتـــمــر عــجــمـــان الـدولي السادس للـبـيئـة Ajman 6<sup>th</sup> International Environment Conference

THE ATMOSPHERE

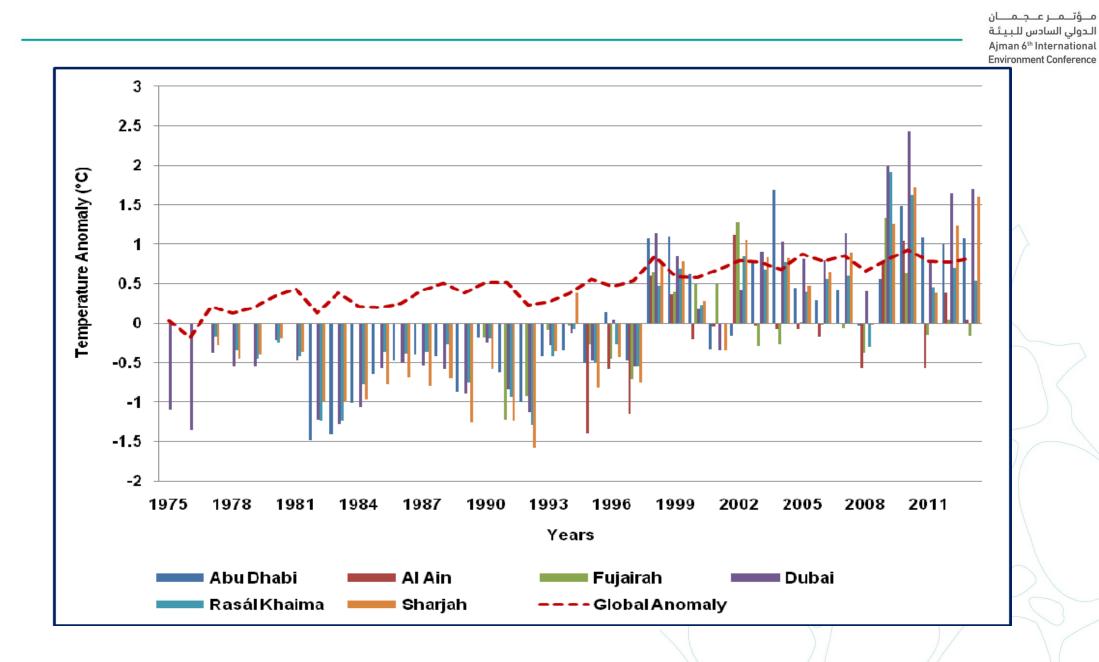




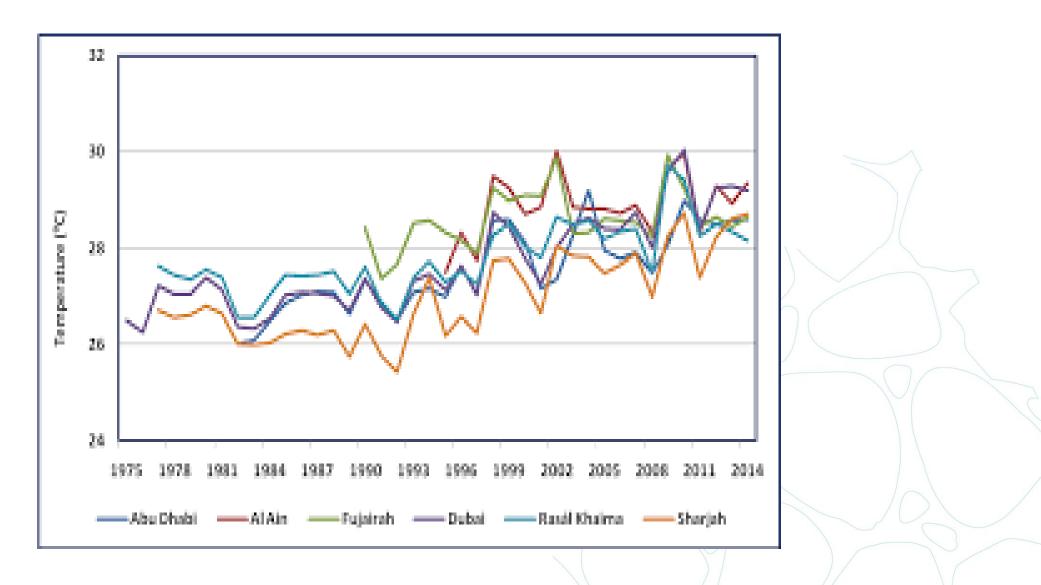


عامة - Public



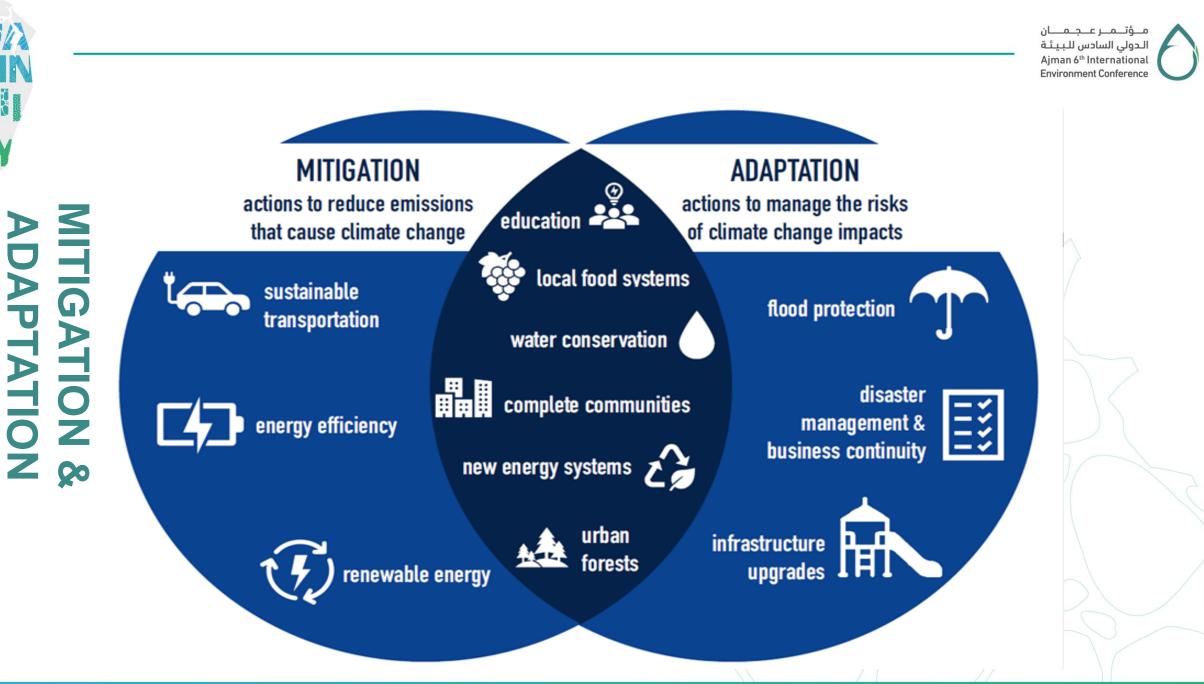




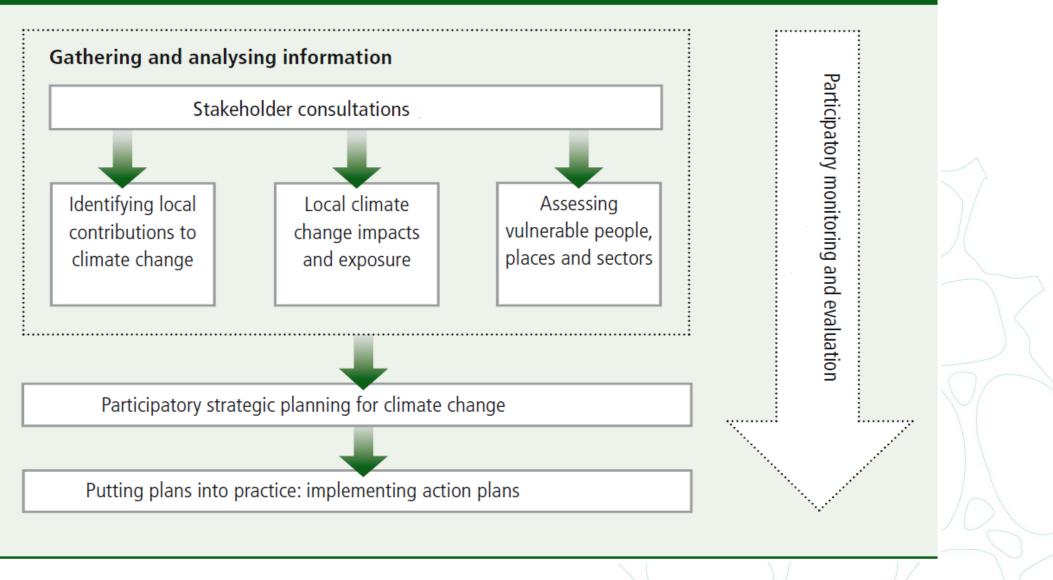




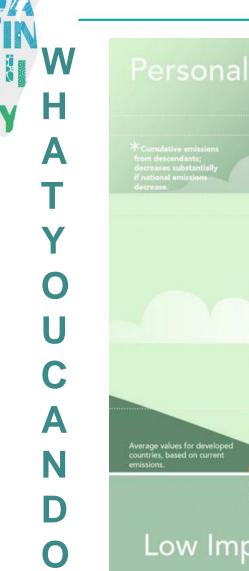
DAPTAT

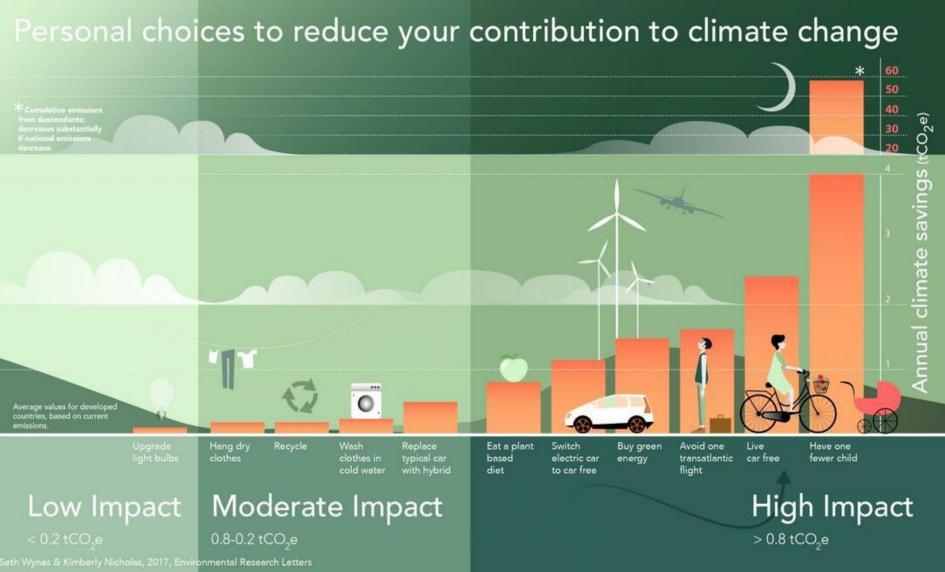






مــؤتــمــر عــجـمـــان الـدولي السادس للـبـيئـة Ajman 6<sup>th</sup> International Engippnment Conference







مــؤتــمــر عــجـمــان الـدولي السادس للـبيئة Ajman 6<sup>th</sup> International Environment Conference

 How many TOE you were consuming of electricity within one month? (TOE) tons of oil-equivalent energy=11630 kWh 16,000/11630= 1.376 TOE

2. How many tons of CO2 your house was emitted during the same month?
1 ton of oil-equivalent energy = 2.4 tons of CO2 emissions
2.4 x 1.376 = 3.3 tons CO2 emissions

3. How many tons of CO2 will be emitted till 2050 as part of climate change impact if the UAE is consuming the electricity in the rate of

Total energy consumption 6.3 TOE/capita (2020), ENERDATA

Let's assume that CO2 concentration in this year (2020) 415 ppm and 445 in year 2050

### 1 ppm =7.8 Billion tons of CO2

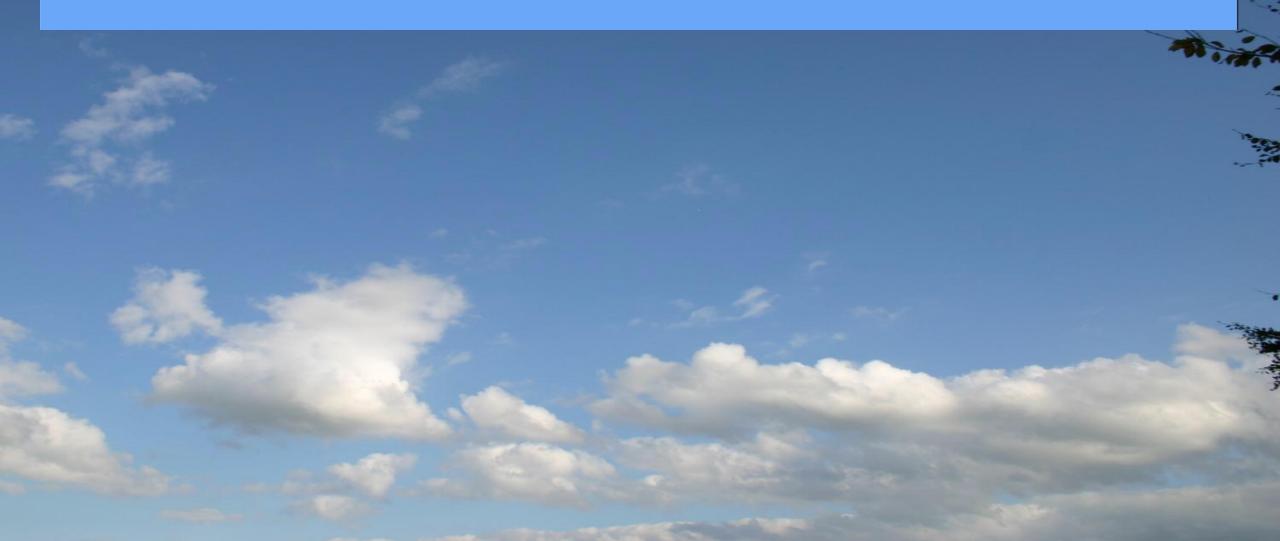
UAE TOE = 6.3 x 10 M = 63 M TOE, Total CO2 emissions = 63 x 2.4 = 151 M Ton

UAE energy consumption contribution in 2020 = 0.02 PPM, in 30 years = 0.6 PPM

430 – 400 = 30 PPM

UAE PPM increase contribution till 2050 = 2% !!!!





# THANK YOU

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