







1 trillionth

1,000,000,000,000

- 250 years to burn the first half trillion tonnes (Anthropogenic Carbon)

- Current Projections next half trillion?

40 years

Source: Nature Vol 458 | 30 April 2009

---

---

---

---

---

---

---

---

---

---

How much do we use?

491,000,000,000,000,000 Joules/Year

136,000,000,000,000 Kilowatt-hours/year)

~20,150 KWH/year per person

1 Watt = 1 Joule used per second

Global Average = 2200 Watts per Person

Source: Massachusetts Institute of Technology

---

---

---

---

---

---

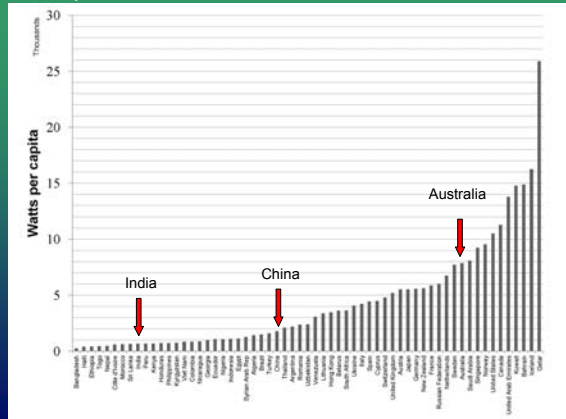
---

---

---

---

Per Capita



---

---

---

---

---

---

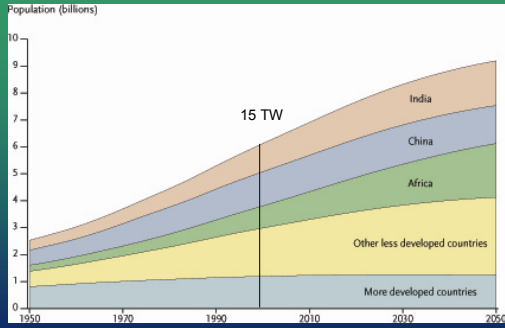
---

---

---

---

## Growth



Source: Population Reference Bureau

---

---

---

---

---

---

---

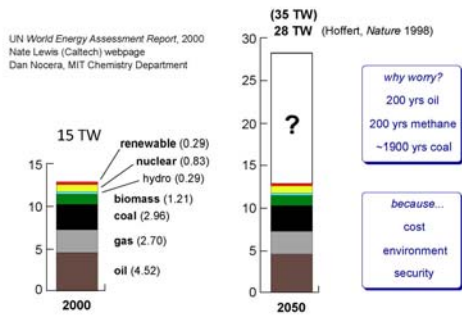
---

---

---

## Terra Watts: 1,000,000,000,000

### Global Energy Inventory




---

---

---

---

---

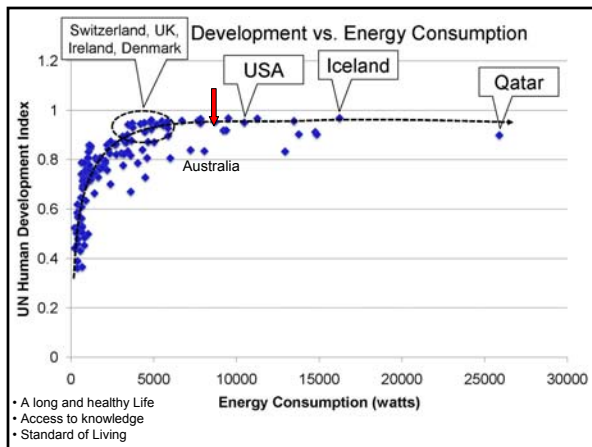
---

---

---

---

---




---

---

---

---

---

---

---

---

---

---

## Dialogue & Opportunity

**Dialogue** is a capacity and inclination of Human beings to **reflect** together on the **meaning** of their **experience** and their **knowledge** and can be thought of as threads of communication that bind people **together** and prepare them for reflective **action**.

Shor 1992



---

---

---

---

---

---

---

---

## QUESTIONS / COMMENTS ?

For Further Information Contact

Ragnar Haabjoern  
Capacity Building Officer  
Sydney Coastal Councils Group Inc.  
Level 14, 456 Kent Street  
GPO Box 1591  
SYDNEY NSW 2001  
Ph: 9246 7791  
Fax: 9265 9660  
Email: [info@sydneycoastalcouncils.com.au](mailto:info@sydneycoastalcouncils.com.au)  
Web: [www.sydneycoastalcouncils.com.au](http://www.sydneycoastalcouncils.com.au)



### SCCG Secretariat

- |                    |                                 |
|--------------------|---------------------------------|
| • Geoff Withycombe | Executive Officer               |
| • Craig Morrison   | Senior Coastal Projects Officer |
| • Ragnar Haabjoern | Capacity Building Officer       |

---

---

---

---

---

---

---

---