Power introduction – Shani

SLIDE climate change –can we make a difference

Total 14.5 tonnes per household with what is on graph

16 tonnes – air travel, clothing, homes etc

SLIDE Interrelatedness of all things

Although we have broken this course down into sections, it is important to remember that they are all interrelated. Power is involved in everything we eat, do, buy, need etc.

For example – food for every calorie of food 10 petrochemical calories are used to create it (Living the Good Life) and it also uses water. The water uses energy to be processed and delivered to your home. The unnused food and packaging needs to be recycled. The recycling requires energy etc etc etc

SLIDE Where does our power come from here in WA ?

(I grew up in Canada where all our electricity came from hydroelectric plant)

Coal is the most carbon polluting power source

WA has had a cap on residential power costs for 10 years which will come off in 2009. Many suggest that this has inhibited renewable energy programs.

Goal from SEDO is 15% renewable by 2020

Commonwealth target is 20% by 2020

Sweden intends to be entirely run on renewables by 2020

- Will get different data – South West grid information

SLIDE power use in a typical house

Activity – can you fill in the circle

Household energy use

Energy use in house the biggest is to heat water – good tips on sheets for reducing that!

Tell the story about Tim and I over the hot summer having our hot water off and not knowing it!

Significant ammount in heating and cooling the house – we will look briefly at that

SLIDE so what to do

SLIDE Tech vs Behavioural changes

Technological changes

Can be expensive

Can tend to lead to a “business as usual approach” eg I have solar panels so I can run my aircon

Less useful if you are renting

Great if you are busy

Can create really big changes

Behavioural changes

Cheaper (usually)

Involve more conscious decision making on a daily basis

Available to everyone

May take more time and effort

Some limitations

Smaller changes over longer time

SLIDE putting it together can make a difference

SLIDE power bills refer to sheets

SLIDE What is a unit? – see slides bar heater/ 13 globes

Each unit is 1 kilogram of greenhouse gas back at the power station –

Fit balloon

Gas is comparable unit by unit

SLIDE – check out your bills – how do they compare