Energy Loss in the Food Chain

What is energy?

Energy is t	he that ou	r bodies need to	We need it to		
	, to pump our blood,	, to run, to speak, to t	hink, and to do all of		
the wonder	rful things that we do.	Plants and	need energy too,		
for the		No energy = no	!		
How do we	e measure energy?				
Energy car	n be measured in either	·	or		
	Calories are n	nore familiar to us; we	can read		
		to figure out ho	w much energy		
is in that c	lelicious chocolate bar.	The more			
the more _		_wegetfromsometh	ing.		
	Using	to measure	is		
	actually an old way of doing things; it belongs with the				
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	that uses feet, inches and				
	pounds to measure things. We have switched to using the				
	and now, instead of measuring in				
Calories, w	e measure in	! How many	Joules of energy are		
in that cho	ocolate bar?				
Just like t	here are	of	in everything		
we eat, the	ere are also Joules of (energy in everything t	hat plants and animals		
	or				

So...where do the Joules come from?

The answer:	! Joules enter our food web as		
		It's the o	nly way! The plant uses
	to		its own food
(remember - plants ar	e called).	. An animal eats the
plant, and the	ŀ	keeps getting pa	issed along the food
chain.			
web, right?	gers passed r		to the top of the food
The system works pre	etty well, but it's	s not	A lot of
The system works pre energy gets			
			. We lose energy in a
energy gets	ways. We	can lose it as	. We lose energy in a , if the
energy gets lot of environment is colder	ways. We than we are. W	can lose it as /e can use it up	. We lose energy in a , if the by
energy gets lot of environment is colder	ways. We than we are. W , by	can lose it as /e can use it up , by d	. We lose energy in a , if the by oing anything at all that

each stage. Let's look at the diagram on the next page:

