

Energy

Written by Bill Brennan and James Brennan © 2001

The atom's nucleus is charged positive
it's where the positive proton and neutral neutron live
the nucleus is orbited by the electrons
which are negatively charged and always moving on

If atoms collide and share electrons
they can make molecules with covalent bonds
bonds break releasing energy as heat
or transferring it to muscles in your feet for

EN ER GY it can't be created
EN ER GY it can't be destroyed
EN ER GY it's transformed
EN ER GY that's how it's employed

Everybody's body is made up of cells
this is where your mitochondria dwell
they burn glucose making ATP
ATP bonds break transferring energy

This is how your muscles move
when you reach for the stars or dance to the groove
the burning mitochondria use oxygen
releasing CO₂ moving more oxygen in for

Energy outflow minus energy income
Always must be a zero sum

Large protein molecules do the work of life
when they bond with others when the attraction
is right through the new bond the energy is preserved
instead of being lost as heat, it is transferred

There is a story about bonds you can tell
with everything that happens in every living cell
there are combinations of bonds that are breaking
and bonds transferring and bond-making for

Chorus