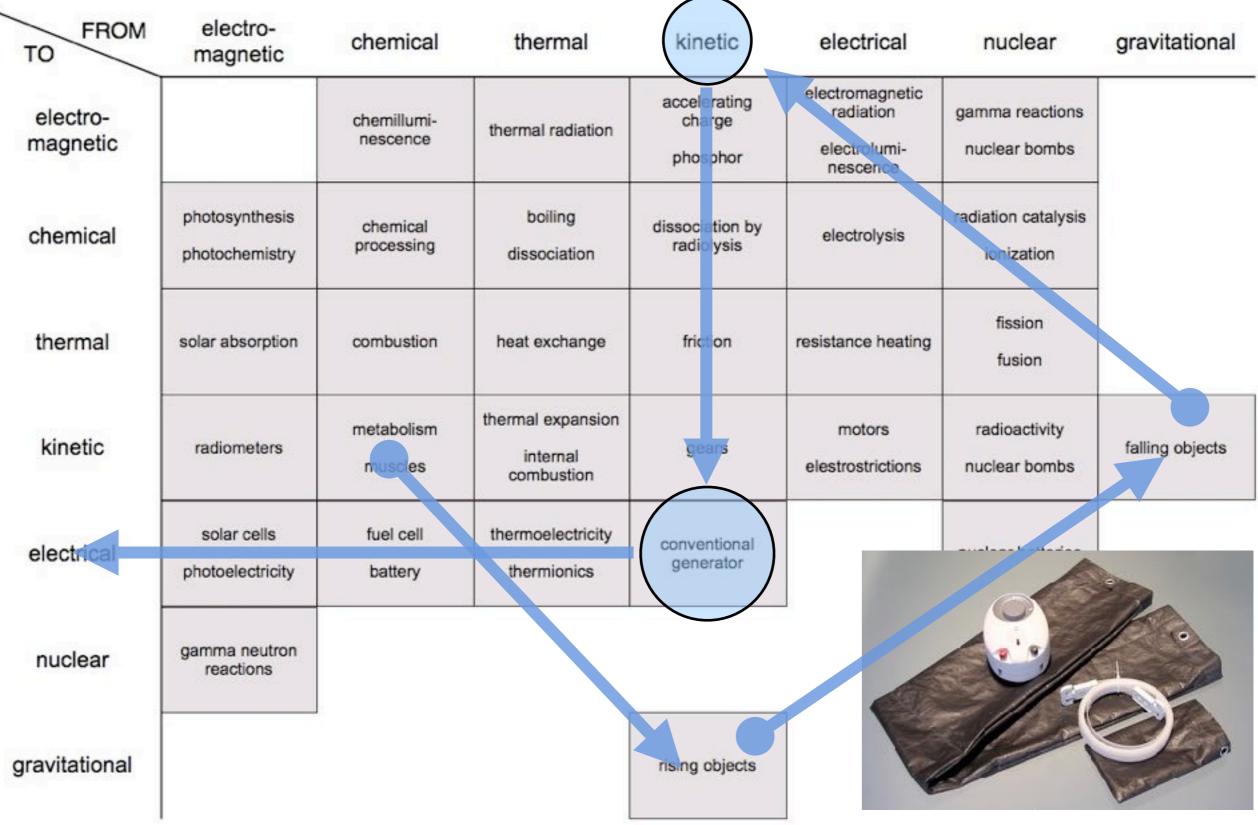
Strategy: Conversion pathways

FROM	electro- magnetic	chemical	thermal	kin	etic	electrical	nuclear	gravitationa
electro- magnetic		chemillumi- nescence	thermal radiation	ch	rating 'ge phor	electromagnetic radiation electrolumi- nescence	gamma reactions nuclear bombs	
chemical	photosynthesis photochemistry	chemical processing	boiling dissociation		tion by ysis	electrolysis	radiation catalysis ionization	
thermal	solar absorption	combustion	heat exchange	fric	on	resistance heating	fission fusion	
kinetic	radiometers	metabolism muscles	thermal expansion internal combustion	ge	ans	motors elestrostrictions	radioactivity nuclear bombs	falling objects
electrical	solar cells	fuel cell	thermoelectricity	conve	ntional		nuclear batteries	
	photoelectricity	battery	thermionics	generator			nuolear batteries	
nuclear	gamma neutron reactions							
gravitational				rising	objects			

Source: Energy: A Beginner's Guide, Vaclav Smil, 2006.

Pathway: kinetic to electrical via generator (induction)



Source: Energy: A Beginner's Guide, Vaclav Smil, 2006.

Pathway: metabolism to falling weights to kinetic to electrical via generator (e.g. DeciWatt GravityLight)

TO	electro- magnetic	chemical	thermal	kinetic	electrical	nuclear	gravitational
electro- magnetic		chemillumi- nescence	thermal radiation	accelerating charge phosphor	electromagnetic radiation electrolumi- nescence	gamma reactions nuclear bombs	
chemical	photosynthesis photochemistry	chemical processing	boiling dissociation	dissociation by radiolysis	electrolysis	radiation catalysis ionization	
thermal	solar absorption	combustion	heat exchange	friction	resistance heating	fission fusion	
kinetic	radiometers	metabolism muscles	thermal expansion internal combustion	gears	motors elestrostrictions	radioactivity nuclear bombs	falling objects
electrical	solar cells photoelectricity	fuel cell battery	thermoelectricity thermionics	conventional generator		nuclear batteries	
nuclear	gamma neutron reactions						
gravitational				rising objects			

Source: Energy: A Beginner's Guide, Vaclav Smil, 2006.

Pathway: electromagnetic to solar via solar cells

Strategy: Conditioning your converter

