

Categorie Premio	Accessibilità	Sostenibilità	Qualità della vita

Product Name	The Revolution Door
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<p>Description of innovation social values</p> <ul style="list-style-type: none"> - product category - formal and functional features - problems solved by innovation - user - field of application 	<p>Innovative Technology Prize. The Revolution Door is a modified revolving door comprised of three parts - a redesigned central core replacing that of any existing or new revolving door, a mechanical/electrical system that harnesses human energy and redistributes electricity to an output, and an output device that maps the harnessed energy. By mechanically harvesting a negligible amount of human energy and converting it to a tangible display through the use of a generator, the Revolution Door will directly communicate a single person's contribution to an energy cycle possible through the metabolic relationship between people, technology, and architecture. The Revolution Door can be used in any application where a standard revolving door is used, typically large institutional/cultural buildings in an urban environment. The Revolution Door can be considered as the urban equivalent of a wind turbine. The Revolution Door is currently in the prototyping stage.</p>		
<p>Description of technical features</p> <ul style="list-style-type: none"> - operations - technology 	<p>The Revolution Door uses a generator that is designed specifically for this application with an assembly of a rotating magnetic wheel, wire coil wheel, gearing system and protective enclosure. The Revolution Door is designed to be used as either a retrofit component to replace the core of an existing revolving door, thereby minimizing waste, or a new system to be installed at the time of building construction.</p>		
<p>Dimensions</p>	<p>Depending on application, either retrofit or new installation, the Revolution Door mechanism can be anywhere from 6'-0" – 8'-0" in diameter, and 8'-0" – 10'-0" in height.</p>		
<p>Materials</p>	<p>NDFB Magnets, Copper wire, iron plate, aluminum structure, plastic/glass enclosure and panels, nonmagnetic fasteners and adhesives.</p>		
<p>Certifications</p>	<p>Patent Pending.</p>		
<p>Benefits for environment</p>	<p>The Revolution Door makes use of an already environmentally conscious building element – the revolving door – which aids in limiting the flow of conditioned air in and out of buildings. The Revolution Door improves on this feature by adding a component that harnesses human energy for redistribution into the building system, reducing a buildings' net energy draw from the grid, and introducing a renewable energy source into the system.</p>		
<p>Benefits for human being</p>	<p>The Revolution Door promotes human consciousness of the built environment and their involvement in the building system. People become active participants in how their energy is expended and employed in a holistic cycle of energy consumption and conservation.</p>		