

	MSW Landfills	Waste-To-Energy Plant
Wells	<ul style="list-style-type: none"> Landfills will always leak leachate into groundwater – documented by EPA 1981 & since <i>Modern Landfill has contaminated at least 5 residents' wells with known carcinogens and other toxins</i> 	<ul style="list-style-type: none"> Trash isn't stored. It goes directly from curbside into the process. No groundwater is contaminated
Streams, Rivers	<ul style="list-style-type: none"> As a practical matter, PA DEP can only enforce rules the PA legislature allows them to. <i>Modern has contaminated Kreutz Creek well beyond the nominal control limits set by DEP for many years</i> 	<ul style="list-style-type: none"> Because trash isn't stored, no leachate forms and there is no opportunity to pollute surface waters
Climate Change	<ul style="list-style-type: none"> Landfills emit methane, 26 times worse than carbon dioxide Landfills divert carbon neutral fuel from WTE, requiring fossil fuels to be used to generate electricity 	<ul style="list-style-type: none"> Mostly carbon neutral Generates electricity without fossil fuels <i>Closing Modern Landfill and sending the MSW to WTE is equivalent to taking 300,000 gasoline cars off the road</i>
Jobs	<ul style="list-style-type: none"> Landfills provide jobs Landfills permanently take away jobs of farmers and their staff. Society needs more farmers and farm land <i>Modern provides 35 jobs before accounting for farm loss</i> 	<ul style="list-style-type: none"> WTE plants also provide jobs <i>Several people living in LWT work at York's WTE plant. Their earned income taxes support LWT's budget</i>
Footprint	<ul style="list-style-type: none"> Typically, 280 acres every 30 years Land cannot be farmed or built upon for many generations Cannot be sited close to occupied property 	<ul style="list-style-type: none"> Typically, 15 – 20 acres for a large one No need to expand to continue processing MSW
Transportation	<ul style="list-style-type: none"> Often hundreds of miles from source of MSW, requiring handling at transfer stations and long-distance trucking <i>None of Modern's MSW comes from York County. Much comes from out of state</i> 	<ul style="list-style-type: none"> Can be sited at the source of MSW, even in cities close to businesses and residential areas. Trash can be processed hours after picking up from curbside
Health & Safety	<ul style="list-style-type: none"> Documented clusters of cancer, respiratory disease, heart disease, birth defects, immunodeficiencies, low birth weight and other dire conditions near landfills More Superfund sites are landfills than any other facility <i>Modern has been on the National Priority List of Superfund sites since 1986</i> 	<ul style="list-style-type: none"> A 2008 study concludes an average WTE Plant will cause at least 600 times fewer cancer cases and at least 1900 times fewer chronic non-cancer illnesses than an average MSW landfill in the nearby community As of 2020, no health problems in nearby communities have been associated with modern design WTE Plants
Societal Contribution	<ul style="list-style-type: none"> Makes trash somebody else's problem for 100's of years 	<ul style="list-style-type: none"> Makes trash go away safely and efficiently and powers the electrical grid

Chart from a presentation by John Bowser, 8 June 2021. John is retired after 17 years as CEO of Compact Membrane Systems. www.compactmembrane.com
During John's tenure, CMS received 150 grants to conduct R&D into new products and processes, mostly to prevent the pollution of or to clean up already polluted air, water and soil.

Rev 2 adds Modern specific information in *italics*.