Policy Topic - Tipping Fee's

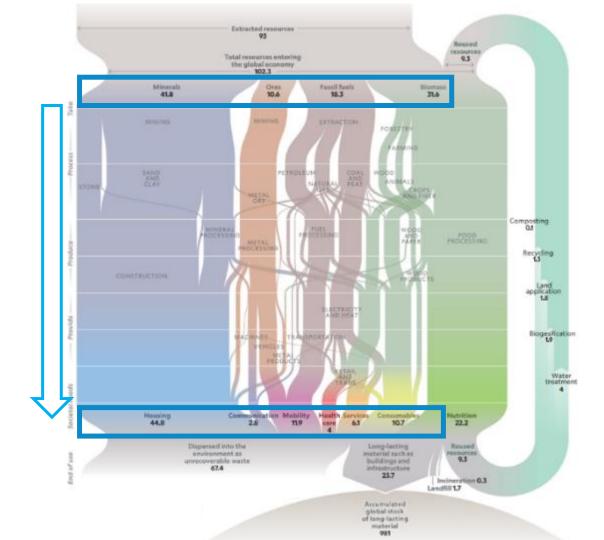
Washington Organics Workgroup November 2021







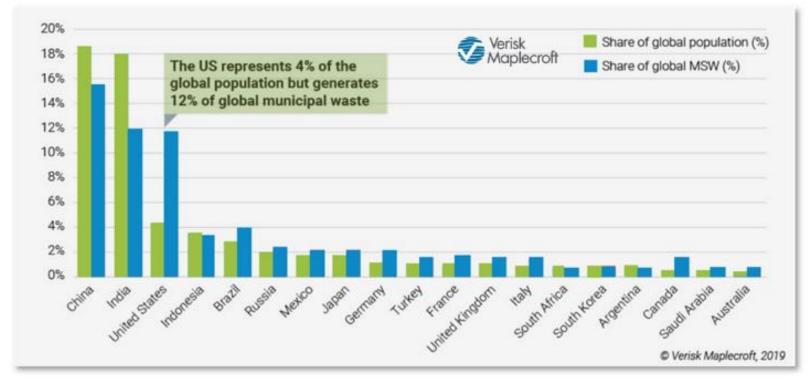
Linear v. Circular



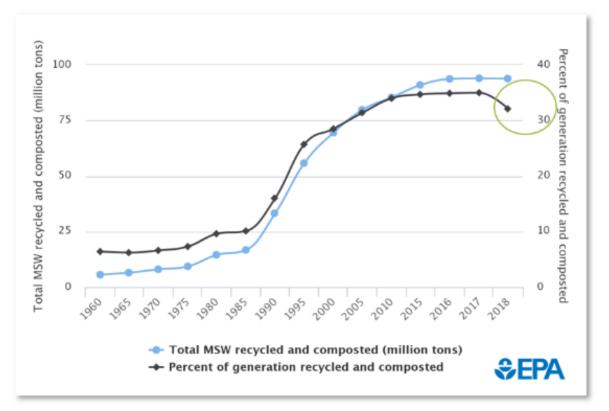




An Opportunity



The Recycling Rate



10,000 Tons of Material:

Reusing = Up to 250 Jobs Recycling = 35 Jobs Landfilling = 6 Jobs Incinerating = 1 Job *EPA 530-F-02-033. 2002





"We can either brace for further erosion of our recycling ecosystem or we can start addressing the <u>fundamental</u> <u>economics</u> of Recycling"

Nina Belluci Butler, MORE Recycling

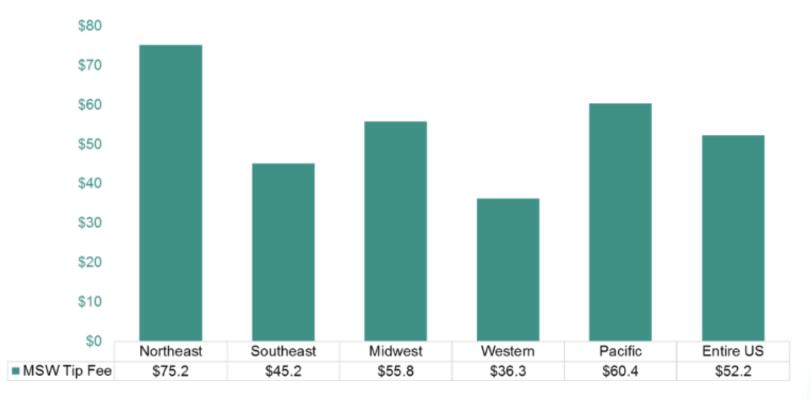
 12/1/2016
 3/1/2017
 6/1/2017
 9/1/2017
 12/1/2017
 3/1/2018

 —Operating Revenue per Outbound Ton
 —Operating Expenditure per Outbound Ton
 —Operating Expenditure per Outbound Ton

\$100



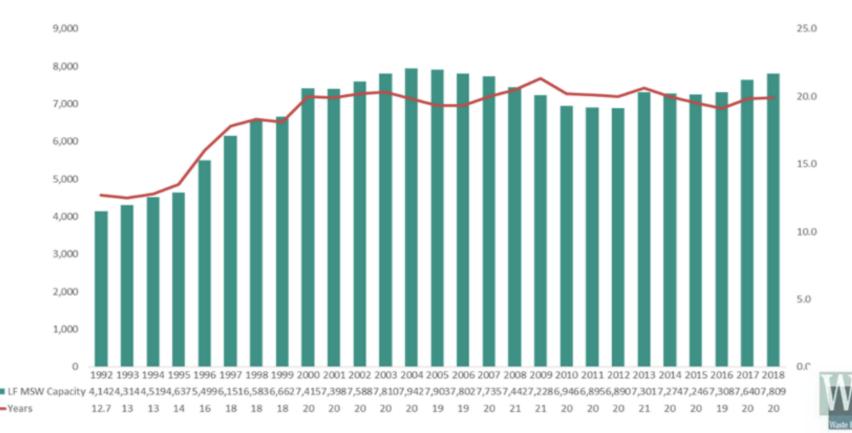
U.S. Tipping Fee's

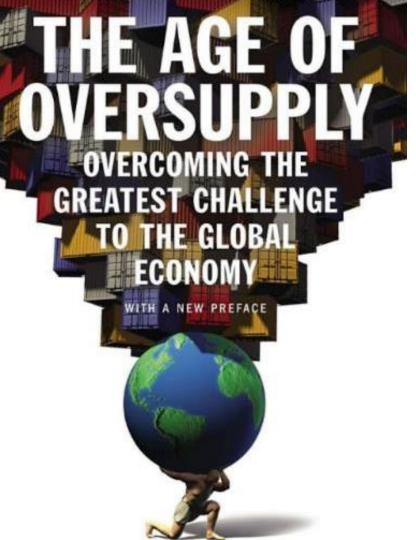




Remaining U.S. Landfill Capacity

(In Millions of tons and Years)

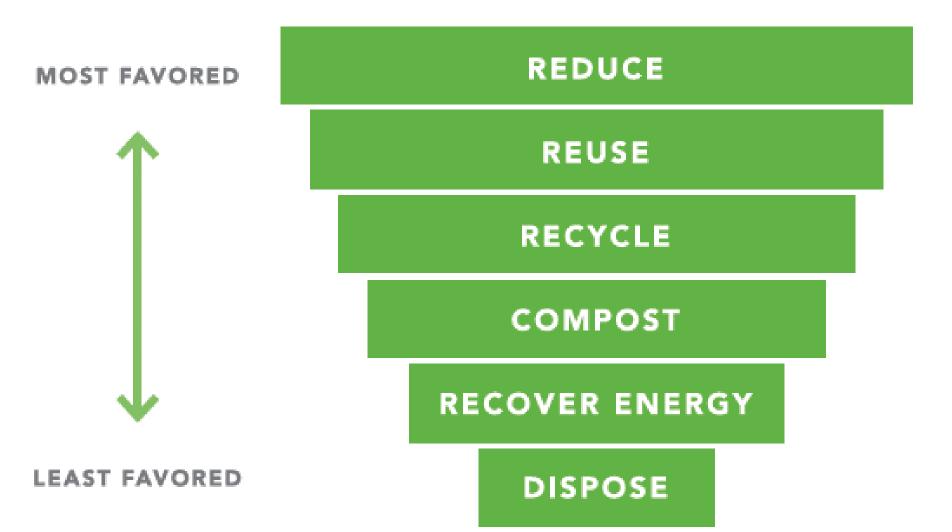




Unaccounted **Negative Externalities** Too much Supply

Barriers to Entry

"Until we establish policy that places the cost and benefit of a healthy environment on the balance sheet of companies and countries, we risk further eroding of the infrastructure and the environment our children's depend" "Nina Butler Bellucci, MORE Recycling





U.S. Waste Sector

| | Public | Private | | | |
|----------------------------------|-----------|-----------|-----------|---------|--------------|
| | Companies | Companies | Municipal | Total | % Share |
| Collection | | | | | |
| Residential Collection | 7.31 | 8.34 | 7.02 | 22.67 | |
| Commercial/Industrial Collection | 18.91 | 1.98 | 2.34 | 23.23 | |
| Total Collection | \$26.22 | \$10.32 | \$9.36 | \$45.91 | 62% |
| Processing | | | | | |
| Transfer | 2.14 | 0.58 | 0.76 | 3.48 | \mathbb{N} |
| MRF/Recycling Operations | 3.80 | 1.03 | 0.55 | 5.38 | |
| Composting | 0.19 | 0.05 | 0.07 | 0.31 | \subseteq |
| Total Processing | \$6.14 | \$1.66 | \$1.38 | \$9.17 | 12% |
| Disposal | | | | | |
| Incineration/Waste-to-Energy | 1.70 | 0.22 | 0.61 | 2.54 | |
| Landfill Operations | 10.15 | 2.98 | 3.05 | 16.18 | |
| Total Disposal | \$11.86 | \$3.20 | \$3.66 | \$18.72 | 25% |
| Total Market | \$44.21 | \$15.18 | \$14.40 | \$73.80 | 100% |
| % Share | 60% | 21% | 20% | 100% | |





European Policy

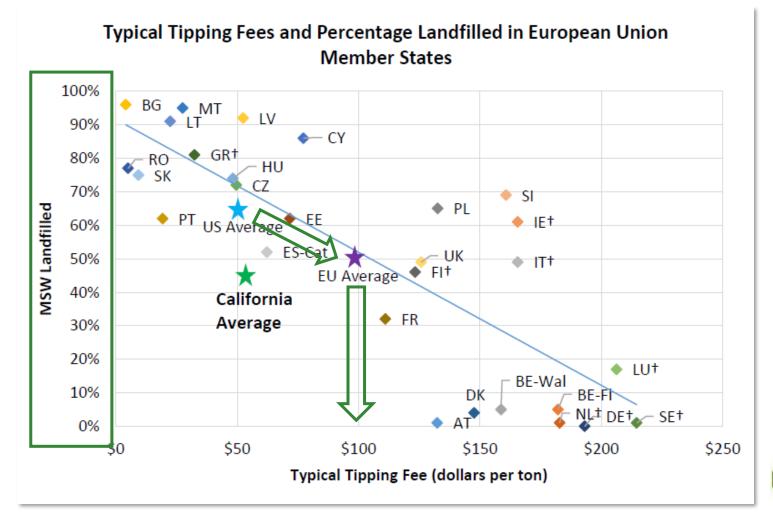
| | 16.7.1999 | 000 Official Journal of the European Communities | | | | | | | | | |
|---|------------------|--|---|------------------|---|------|--|--|--|--|--|
| | EUROP | EAN LINION | (Acts whose publ | I lation is o | Europe Environ Agency | ment | | | | | |
| COUNCIL DIRECTIVE 1999/31/EC | | | | | | | | | | | |
| of 26 April 1999 | | | | | | | | | | | |
| on the landfill of waste | | | | | | | | | | | |
| | THE COUNCI | L OF THE EUROPEA | N UNION, | (5) | Whereas under the polluter pays prin necessary, inter alla, to take into account any the environment produced by a landfill; | | | | | | |
| | | | ty establishing the European Article 1305(1) thereof. | | | | | | | | |
| | | | from the Commission (¹), | (5) | Whereas, like any other type of waste tream should be adoquately monitored and r prevent or roduce potential adverse effe environment and risks to human health: | | | | | | |
| Having regard to the optition of the Economic and Social Committee $\left(^{2}\right) .$ | | | of the Economic and Social | 01 | Whereas it is necessary to take appropriate avoid the abundonment, dumping or disposal of waste: whereas, accordingly, | | | | | | |
| Acting in accordance with the procedure laid down in Article 189c of the Treny $(\tilde{\gamma},$ | | | possible to menitor landfill sites with re- substances contained in the waste depo- whereas such substances should, as far as p- only in foreseeable ways; | | | | | | | | |
| | waste strateg | policy welcomes gy document and se criteria and star | solution of 7 May 1990 (*) on and supports the Community I levites the Commission to dards for the disposal of wate | (8) | Whereas both the quartity and huzardow wate intended for landfil should be red appropriate, whereas the handling of wate facilitated and its recovery enhanced; whereas truttment processes theodil threefore be on | | | | | | |
| | waste | policy considers th | olution of 9 December 1996 on hat, in the future, only safe and vities should be carried out sky: | | ensure that landfill is compatible with the s this Directive; whereas sorting is inclu- definition of meatment; | | | | | | |

Article 6

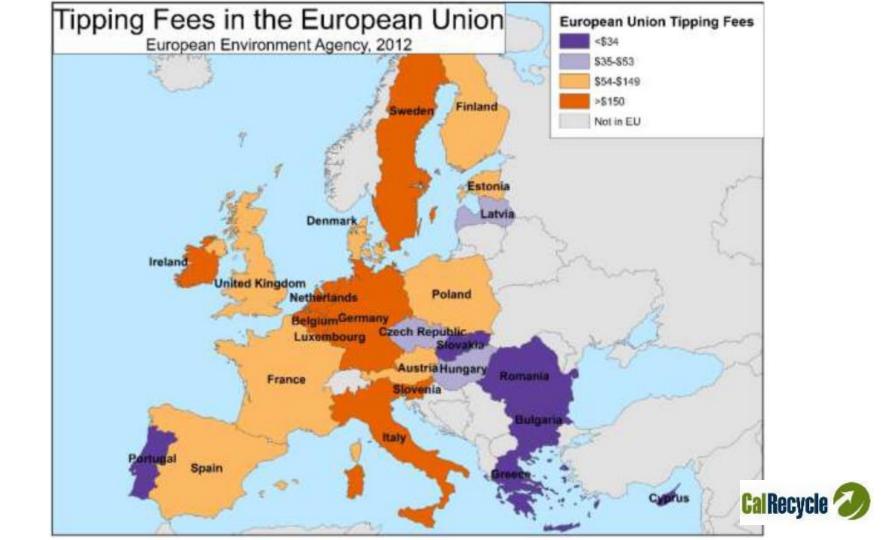
Waste to be accepted in the different classes of landfill

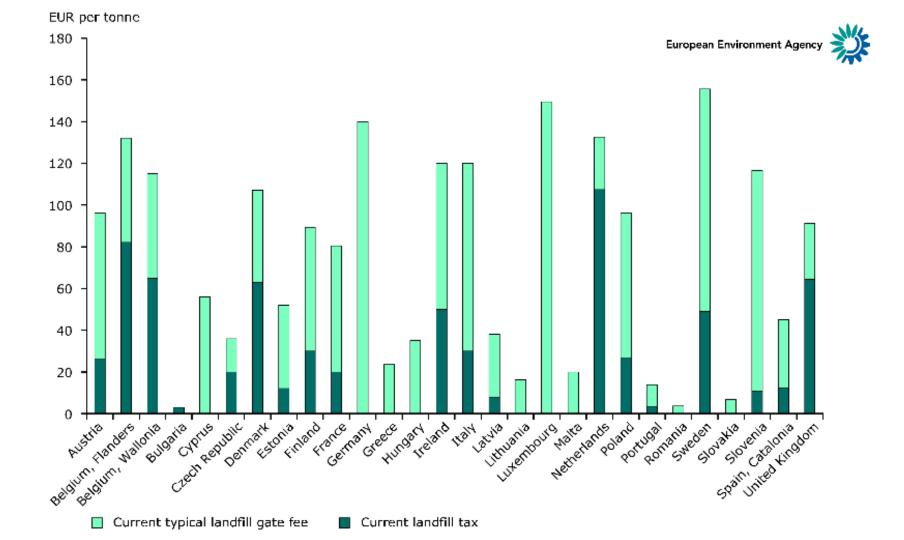
Member States shall take measures in order that:

(a) only waste that has been subject to treatment is landfilled. This provision may not apply to inert waste for which treatment is not technically feasible, nor to any other waste for which such treatment does not contribute to the objectives of this Directive, as set out in Article 1, by reducing the quantity of the waste or the hazards to human health or the environment;





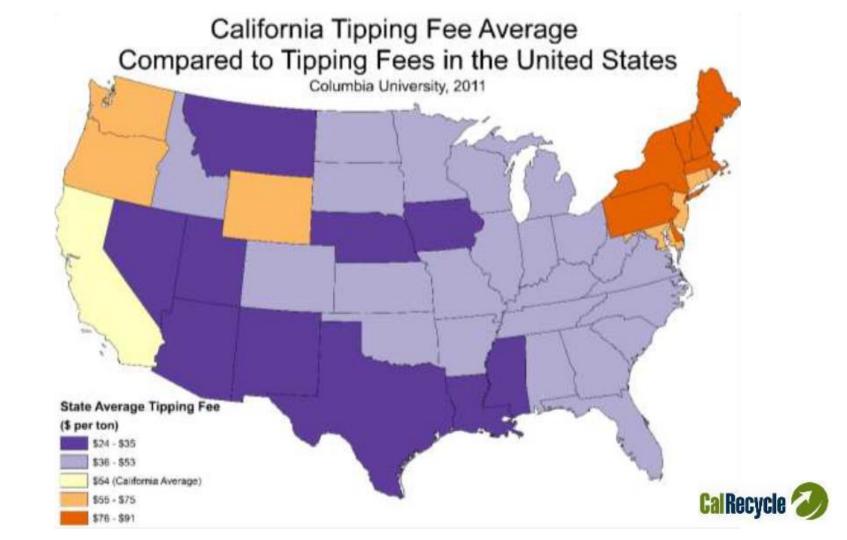




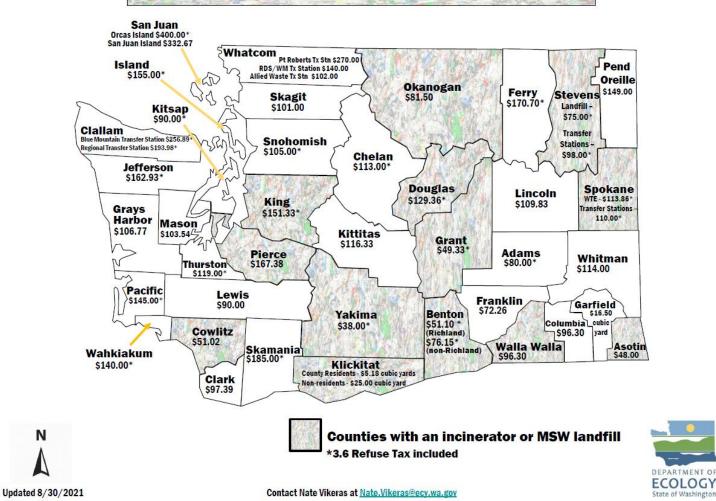
State Tipping Fees and Landfilled Percentage







Municipal Solid Waste Tipping Fees (per ton) - 2021



Higher Tip Fee's = Increased Recycling



Increased Recycling = More Jobs and improved Environmental Outcomes

<u>IS</u>

A high/higher Disposal Tax a good policy?



"There is no other action that society can do today to simultaneously improve our impact on the environment, manufacturing AND the economy as recycling can"

Mitch Hedlund, Recycle Across America