

**Table: Differences between Higher Education Institution internal carbon price tools.**

	<b>Carbon Charge</b>	<b>Proxy Price</b>	<b>Carbon Fund</b>
<b>Description</b>	Fee on carbon emissions (optional rebate)	Virtual price on carbon emissions of a project	Share of budget to generate fund
<b>Emission Scope</b>	Scope 1 & 2 or 3 for air travel	Scope 1 & 2, Scope 3 purchasing	Scope 1 & 2 or 3 for air travel
<b>Timeline Focus</b>	Present Emissions	Future Emissions	Present Emissions
<b>Scale</b>	Institutional/Sector	Project by Project	Institutional
<b>Institutional Role</b>	Operational	Planning, Risk, Evaluation	Mitigation projects or Offsets
<b>Financial Focus</b>	Operational Expenditures (plus future design and constr.)	Design and Construction, Purchasing	Budgets
<b>Impact</b>	Across the Institution	Targeted Projects	Fund Use
<b>Primary Data Requirements for Implementation</b>	Unit-level energy metering(for buildings)	Present and future project costs	Emissions inventory
<b>Accounting Level</b>	Unit/Department	Project	Unit-level or above
<b>Administrative Level of Effort</b>	High	Depends upon project number and scope	Low (for fund itself)
<b>Typical Size of Price Signal</b>	Business: \$2–\$20/ton Academia: \$10–40/ton	Business: \$2–\$893/ton Academia: \$10–\$268/ton	Zero (not passed to consumers)
<b>Program Cost (to institution)</b>	Administration, net cost of implemented measures	Added net cost of any new options selected, limited administration	Total value of fund minus cost savings, administration
<b>Primary Visibility</b>	DepartmentsAir travelersStudent engagement	Facilities and finance staffStudent projects	DepartmentsFund recipients
<b>Revenue for projects</b>	If not revenue neutral	No	Yes
<b>Other Potential Benefits</b>	<ul style="list-style-type: none"> <li>Student learning</li> <li>Promotes dialog</li> <li>Funds/promotes low carbon investment</li> <li>Promotes energy efficiency investment</li> <li>Drives behavioral changes</li> <li>Manages risk of carbon regulation</li> </ul>	<ul style="list-style-type: none"> <li>Student learning</li> <li>Promotes low carbon investment</li> <li>Promotes energy efficiency investment</li> <li>Promotes long term thinking (LCC)</li> <li>Engages vendors</li> <li>Manages risk of carbon regulation</li> </ul>	<ul style="list-style-type: none"> <li>Student learning</li> <li>Promotes dialog</li> <li>Generates funds for climate, efficiency, and sustainability projects</li> </ul>

Table from: Barron, A.R., Parker, B.J., Sayre, S.S., Weber, S.S. and Weisbord, D.J., 2020. Carbon pricing approaches for climate decisions in U.S. higher education: Proxy carbon prices for deep decarbonization. Elem Sci Anth, 8(1), p.42.

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