

Reductions in carbon dioxide

Over half of the CO₂ reductions were achieved through container operations 22,552 tons out of 39,939 tons (56%) of CO₂ reduced for the 50% adoption scenario. Field operations accounted for almost 3 times the volume of reduction compared with greenhouse operations. Region specific information can be found at the end of this module. Reductions are based on how much reduced pumping energy would be required to move the smaller amount of water, and factors in the regional mix of fuels (gasoline, diesel, coal etc.) that are used.

Table 2. Annual potential regional reductions in carbon dioxide emissions by using sensor networks. Annual CO₂ reductions are based on a 50% reduction in pumping volumes, at 50% and 100% of ornamental operations.

Region	Operation type	Annual reduction in CO ₂ emissions (tons) ²	
		50% adoption	100% adoption
All regions	Greenhouse	4,429	8,859
	Container	22,552	45,104
	Field	12,958	25,914
	Total	39,939	79,879
² 1 ton = 0.9071847 Mg			