I_{ndex}

| A | technology specifications, 97, 99, 148-149 |
|--|---|
| air toxics, see hazardous air pollutants | tradeable emissions, 110-111, 114, 150-151 |
| adaptability | summary of instrument effectiveness, 26, |
| definition of criterion, 182-183 | 147-148 |
| factors for comparing instruments, 183-184 | |
| ease of program modification, 184 | |
| ease of source changes, 184 | В |
| instrument-by-instrument comparison, 186-190 | bubble policy, EPA, see tradeable emissions |
| instrument effectiveness | |
| challenge regulations, 118, 120, 186-187 | |
| design standards, 95, 96, 187-188 | С |
| harm-based standards, 91, 188 | California Air Toxics "Hot Spots" Information and |
| information reporting, 133, 134, 186 | Assessment Act, see "Hot Spots" California air |
| integrated permitting, 107, 188 | toxics program |
| liability, 127, 128, 186 | California Safe Drinking Water and Toxic Enforce- |
| pollution charges, 124, 189-190 | ment Act, see Proposition 65 |
| product bans, 101, 102, 187 | case studies |
| subsidies, 138, 190 | summary of criteria and key issues, 30, 58 |
| technical assistance, 142, 186 | see also individual case studies: "Hot Spots," |
| technology specifications, 97-98, 99, 187 | California air toxics program; Massachusetts |
| tradeable emissions, 114, 188-189 | Office of Technical Assistance (MassOTA); |
| summary of instrument effectiveness, 27-28, | New Jersey facility-wide permitting; Proposi- |
| 185-186 | tion 65, California; RECLAIM tradeable |
| assurance of meeting environmental goals | emissions program. |
| definition of criterion, 146 | challenge regulation |
| factors for comparing instruments, 146-147 | debates about, 120 |
| degree of action forcing, 146 | definition of instrument, 16, 84, 113, 115 |
| familiarity through use, 147 | extent of use, 18, 86-87, 115-117 |
| monitoring capability, 146-147 | key criteria affecting tool selection |
| instrument-by-instrument comparison, 148-153 | adaptability, 118, 120, 186-187 |
| instrument effectiveness | cost-effectiveness and fairness, 117-118, 120, |
| challenge regulation, 120, 152 | 171 |
| design standards, 95, 96, 149-150 | demands on government, 118, 120, 178 |
| harm-based standards, 89, 91, 150 | environmental equity and justice, 117, 120, |
| information reporting, 131, 134, 151-152 | 164 |
| integrated permitting, 104-105, 107, 150 | choosing instruments, framework for |
| liability, 128, 153 | key questions for matching instruments to |
| pollution charges, 122, 124, 152-153 | problems, 34 |
| product bans, 100, 102, 148, | pollutants, characteristics of, 35-36 |
| subsidies, 136-137, 138, 152 | sources, characteristics of, 36 |
| technical assistance, 140-141, 142, 152 | uncertainty and expectations for change, 36-37 |
| | |

| multiple instrument use, 15, 37-40 responsibility for choosing instruments, 29-31 consolidated permitting, <i>see</i> integrated permitting cost of pollution abatement as percent of sector total expenditures, 52-53 by major statute, 20, 49 for air pollution | D demands on government definition of criterion, 175 factors for comparing instruments, 175-177 costs, 175-176 ease of analysis, 176-177 instrument-by-instrument comparison, 178-182 |
|--|--|
| expenditures by sector, 21, 49, 51 improvements achieved by, 49 for hazardous waste | instrument effectiveness challenge regulation, 118, 120, 178 design standards, 94, 96, 179-180 |
| expenditures by sector, 21, 49, 51 for solid waste expenditures by sector, 21, 49, 51 improvements achieved by, 50 | harm-based standards, 89-90, 91, 178-179 information reporting, 132-133, 134, 178 integrated permitting, 105-106, 107, 180-181 liability, 126-127, 128, 182 |
| for water pollution expenditures by sector, 21, 48-49, 51 improvements achieved by, 48-49 | pollution charges, 124, 181-182 product bans, 102, 179 subsidies, 137, 138, 179 |
| pollution prevention, capital expenditures, 52 cost-effectiveness and fairness to sources definition of criterion, 166-167 | technical assistance, 142, 182 technology specifications, 99, 179 tradeable emissions, 114, 181 |
| factors for comparing instruments, 167-168 administrative burden for sources, 168 fairness to sources, 168 | summary of instrument effectiveness, 25, 177-178 deposit-refund, <i>see</i> subsidies |
| cost-effectiveness for individual sources, 167-168 cost-effectiveness for society, 167 | design standards debates about, 96 definition of instrument, 9, 10, 84, 90, 92 |
| instrument-by-instrument comparison, 170-175 instrument effectiveness challenge regulations, 117-118, 120, 171 design standards, 96, 174 harm-based standards, 91, 173 information reporting, 132, 134, 172 integrated permitting, 105, 107, 170-171 liability, 128, 174 | extent of use, 16, 86-87, 92-93 key criteria affecting tool selection adaptability, 95-96, 187-188 assurance of meeting goals, 93, 96, 149-150 demands on government, 94, 96, 179-180 pollution prevention, 94, 96, 156 |
| pollution charges, 124, 174 product bans, 100, 102, 172 | E emissions trading, <i>see</i> tradeable emissions |
| subsidies, 138, 174-175 technical assistance, 141-142, 172 technology specifications, 97, 99, 172-173 tradeable emissions, 111-112, 113, 114, 170 summary of instrument effectiveness, 24-25, 168-170 | environmental equity and justice definition of criterion, 159-160 factors for comparing instruments, 160-161 distributional outcomes of policies, 160-161 effective participation in policymaking, 161 remediation of existing problems, 161 |
| criteria definitions and important factors, 23 summary tables of instrument effectiveness on, 33, 39, 199 | instrument-by-instrument comparison, 163-166 instrument effectiveness challenge regulation, 117, 120, 164 design standards, 96, 165 |
| see also individual criteria: adaptability, assurance of meeting environmental goals, costeffectiveness and fairness to sources, demands on government, environmental equity and justice, pollution prevention, technology innovation and diffusion | harm-based standards, 91, 165 information reporting, 131-132, 134, 163 integrated permitting, 107, 165-166 liability, 128, 166 pollution charges, 122-123, 124, 164-165 product bans, 102, 165 |

| subsidies, 137, 138, 163 technical assistance, 141, 142, 163-164 technology specifications, 99, 165 tradeable emissions, 111, 114, 164 summary of instrument effectiveness, 27, 161-163 | ance, technology specifications, and tradeable emissions. integrated permitting debates about, 107 definition of instrument, 10,12, 84, 101, 103 extent of use, 18, 86-87, 103 key criteria affecting tool selection assurance of meeting goals, 104-105, 107, 150 |
|--|--|
| harm-based standards debates about, 91 definition of instrument, 9, 10, 84, 85, 88 extent of use, 16, 86-87, 88-89 key criteria affecting tool selection assurance of meeting goals, 89, 91, 150 demands on government, 89-90, 91, 178-179 hazardous air pollutants, 89, 93, 94-95 see also, "Hot Spots." "Hot Spots," California air toxics program criteria discussed assurance of meeting goals, 74, 131 environmental equity and justice, 131 description of program, 72-73 | cost-effectiveness and fairness, 105, 107, 170-171 demands on government, 105-106, 107, 180-181 see also New Jersey facility-wide permitting L liability provisions debates about, 128 definition of instrument, 11, 13, 85, 123-125 extent of use, 19, 86-87, 125-126 key criteria affecting tool selection adaptability, 127, 128, 189-190 demands on government, 126-127, 128, 181-182 pollution prevention, 126, 128, 156-157 |
| <u> </u> | |
| information reporting debates about, 134 definition of instrument, 11, 13, 85, 127, 129-133, 134 extent of use, 18, 86-87, 130-131 key criteria affecting tool selection adaptability, 133, 134, 186 assurance of meeting goals, 131, 134, 151-152 cost-effectiveness and fairness, 132, 134, 172 demands on government, 132-133, 134, 178 environmental equity and justice, 131-132, 134, 163 see also Proposition 65, California; "Hot Spots," California air toxics program instruments categorical definitions, 10-11, 81-85, 119 examples of early uses, 17 | M Massachusetts Office of Technical Assistance (MassOTA) criteria discussed adaptability, 79 technology innovation and diffusion, 79-80 description of program, 76-78 N New Jersey facility-wide permitting criteria discussed adaptability to change, 71 assurance of meeting goals, 104, 105 demands on government, 106 pollution prevention, 70-71 description of program, 67-70 |
| summary of performance on 12 criteria, 33, 39, 199 used under major environmental statues, 13-15, 86-87, 88-89, 92-93, 97, 98-100, 103, 108-110, 115-117, 119, 121-122, 125-126, 130-131, 135-136, 139-140 used for risk based strategies and technology-based strategies, 42 see also individual instruments: challenge regulation, design standards, harm-based standards, information reporting, integrated permitting, liability provisions, pollution charges, product bans and limitations, subsidies, technical assist- | O options for Congress, <i>see</i> stumbling blocks that limit use of desirable instruments P performance standards, <i>see</i> harm-based standards pollution charges debates about, 124 definition of instrument, 11, 13, 85, 119 extent of use, 18, 86-87, 119, 121-122 key criteria affecting tool selection |

| pollution prevention definition of criterion, 153-154 factors for comparing instruments, 154 factors for comparing instruments, 154 focuses on organizational learning, 154 gives an advantage to prevention, 154 instrument effectiveness challenge regulations, 120, 158 design standards, 94-95, 96, 156 harm-based standards, 91, 157 information reporting, 134, 158-159 pollution charges, 124, 158 product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R R R R R R R R R R R R R | assurance of meeting goals, 122, 124, 152-153 environmental equity and justice, 122-123, 124, 164-165 technology innovation and diffusion, 123, 124, 194 | assurance of meeting goals, 65-67, 109 cost-effectiveness for sources, 60-61, 109 environmental equity and justice, 63-65 fairness for sources, 62-63, 112 description of program, 57-60, 109 |
|--|--|---|
| definition of criterion, 153-154 factors for comparing instruments, 154 focuses on organizational learning, 154 gives an advantage to prevention, 154 instrument-by-instrument comparison, 155-159 instrument effectiveness challenge regulations, 120, 158 design standards, 94-95, 96, 156 harm-based standards, 91, 157 information reporting, 134, 158-159 integrated permitting, 107, 157 liability, 126, 128, 156-157 pollution charges, 124, 158 product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 tradeable emissions, 114, 157 summary of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 164 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 158 debates about, 12 definition of instrument, 11, 13, 85, 133-135 extent of use, 19, 86-87, 133-135 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 152 pollution prevention, 100, 102, 158 debates about, 12 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 133-135 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 158 debates about, 12 demands on government, 137, 138, 152 extent of use, 19, 86-87, 133-140 extent of use, 19, 86-87, 133- | pollution prevention | |
| factors for comparing instruments, 154 focuses on organizational learning, 154 gives an advantage to prevention. 154 instrument-by-instrument comparison, 155-159 instrument effectiveneess challenge regulations, 120, 158 design standards, 94-95, 96, 156 harm-based standards, 91, 157 information reporting, 134, 158-159 integrated permitting, 107, 157 liability, 126, 128, 156-157 pollution charges, 124, 158 product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 157-156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 extention of instrument, 100, 102, 155 technology innovation and diffusion, 100, 102, 155 technology innovation and diffusion, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed | | c |
| focuses on organizational learning, 154 instrument-by-instrument comparison, 155-159 instrument effectiveness challenge regulations, 120, 158 design standards, 94-95, 96, 156 harm-based standards, 91, 157 information reporting, 134, 158-159 integrated permitting, 107, 157 liability, 126, 128, 156-157 pollution charges, 124, 158 product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 real pollution prevention, 74-75 description of program, 71-72, 130 real pollution prevention, 74-75 description of program, 71-72, 130 real pollution prevention, 74-75 description of program, 71-72, 130 real pollution prevention, 74-75 description of program, 71-72, 130 real pollution prevention, 74-75 description of program, 71-72, 130 real pollution prevention, 74-75 description of program, 71-72, 130 real pollution prevention, 74-75 description of program, 71-72, 130 real pollution prevention, 74-75 description of program, 71-72, 130 real pollution prevention, 74-75 description of program, 71-72, 130 real pollution prevention, 74-75 description of program, 71-72, 130 real pollution prevention, 74-75 description of program, 71-72, 130 real pollution prevention, 141, 142, 155-156 real pollution prevention, 141, 142, 142, 145 real pollution prevention, 141, 142, 142, 143 real pollution prevention, 141, | | |
| gives an advantage to prevention, 154 instrument-by-instrument comparison, 155-159 instrument effectiveness challenge regulations, 120, 158 design standards, 94, 94-95, 96, 156 harm-based standards, 91, 157 information reporting, 134, 158-159 integrated permitting, 107, 157 liability, 126, 128, 156-157 pollution charges, 124, 158 product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 teachnology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed | | |
| instrument-by-instrument comparison, 155-159 instrument effectiveness challenge regulations, 120, 158 design standards, 94-95, 96, 156 harm-based standards, 91, 157 information reporting, 134, 158-159 integrated permitting, 107, 157 liability, 126, 128, 156-157 pollution charges, 124, 158 product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 reach assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 reach goals, 140, 142, 142, 152 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 reach goals, 140, 142, 142, 152 environmental equity and justice, 141, 142, 152 environmental equity and justice, 152 environmental equity and justice, 153, 137-139 extent of use, 19, 86-87, 133-135 extent of use, 1 | | |
| challenge regulations, 120, 158 design standards, 94-95, 96, 156 harm-based standards, 91, 157 information reporting, 134, 158-159 integrated permitting, 107, 157 liability, 126, 128, 156-157 pollution charges, 124, 158 product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed casurance of meetingsions program criteria discussed casurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 141, 142, 152-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 innovation in the e | | |
| claiening regulations, 24, 156, 156 harm-based standards, 94, 95, 96, 156 harm-based standards, 91, 157 information reporting, 134, 158-159 integrated permitting, 107, 157 liability, 126, 128, 156-157 pollution charges, 124, 158 product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, Califormia criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed congressional options, 44 to a risk-based approach, 41-42 congressional options, 44 to a risk-based approach, 41-42 congressional options, 42-43 subsidies debates about, 138 definition of instrument, 11, 13, 85, 133-135 key criteria affecting tool selection assurance of meeting goals, 136-137, 138, 152 demands on government, 137, 138, 179 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 133-135 key criteria affecting tool selection assurance of meeting goals, 136-137, 138, 152 demands on government, 137, 138, 152 demands on government, 137, 138, 152 demands on government, 137, 138, 163 T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 16, 86-87, 139-140 key criteria | instrument effectiveness | |
| congressional options, 44 to a risk-based approach, 41-42 congressional options, 44 to a risk-based approach, 41-42 congressional options, 42-43 subsidies product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 155 technology innovation and diffusion, 100, 102, 152 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed congressional options, 44 to a risk-based approach, 41-42 congressional options, 42-43 subsidies debates about, 138 definition of instrument, 11, 13, 85, 133-135 key criteria affecting tool selection assurance of meeting goals, 136-137, 138, 152 demands on government, 137, 138, 179 environmental equity and justice, 137, 138, 152 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 186 assurance of meeting goals, 140, 142, 142, 186 assurance of meeting goals, 136-137, 138, 152 technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 186 assurance of meeting goals, 136-137, 138, 152 technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting | challenge regulations, 120, 158 | |
| information reporting, 134, 158-159 integrated permitting, 107, 157 liability, 126, 128, 156-157 pollution charges, 124, 158 product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by state studies, 55-57 RECLAIM tradeable emissions program criteria discussed | design standards, 94-95, 96, 156 | |
| integrated permitting, 107, 157 liability, 126, 128, 156-157 pollution charges, 124, 158 product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 52-53 by state studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed congressional options, 42-43 subsidies debates about, 138 definition of instrument, 11, 13, 85, 133-135 extent of use, 19, 86-87, 133-135 | harm-based standards, 91, 157 | |
| subsidies product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed subsidies debates about, 138 definition of instrument, 11, 13, 85, 133-135 extent of use, 19, 86-87, 133-135 key criteria affecting tool selection assurance of meeting goals, 136-137, 138, 152 demands on government, 137, 138, 179 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 142 definition of instrument, 11, 13, 85, 133-135 extent of use, 19, 86-87, 133-135 key criteria affecting tool selection assurance of meeting goals, 136-137, 138, 152 demands on government, 137, 138, 179 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 133-135 key criteria affecting tool selection assurance of meeting goals, 136-137, 138, 152 demands on government, 137, 138, 163 T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 133-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 163-164 assurance of m | information reporting, 134, 158-159 | |
| lability, 126, 128, 136-137 pollution charges, 124, 158 product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 137, 138, 152 demands on government, 137, 138, 159 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 102 definition of instrument, 11, 13, 85, 133-135 key criteria affecting tool selection assurance of meeting goals, 136-137, 138, 152 demands on government, 137, 138, 179 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 138 definition of instrument, 11, 13, 85, 133-135 key criteria affecting tool selection assurance of meeting goals, 136-137, 138, 152 demands on government, 137, 138, 152 demands on government, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 155 technology innovation and diffusion, 100, 102, 155 technology innovation and diffusion adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 138 definition of instrument, 11, 13, 85, 133-135 key criteria affecting tool selection assurance of meeting goals, 152 demands on government, 137, 138, 163 T technical assistance debates about, 124 definition of instrument, 11, 12, 85, 137-139 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 122 definition of instrument, 11, 12, 85, 137-139 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 122 definition of instrument, 11, 12, 85, 137-139 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 122 definition of instrument | | |
| politution charges, 124, 138 product bans, 100, 102, 155 subsidies, 138, 159 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 ranking of environmental problems by EPA-region studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed criteria discussed criteria discussed criteria discussed soluting and produce the control of use, 19, 86-87, 133-135 extent of use, 19, 86-87, 133-135 key criteria affecting tool selection assurance of meeting goals, 136-137, 138, 152 demands on government, 127, 138, 179 environmental equity and justice, 137, 138, 152 demands on government, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection assurance of meeting goals, 140, 142, 142, definition of instrument, 11, 13, 85, 133-135 key criteria affecting tool selection assurance of meeting goals, 136-137, 138, 152 demands on government, 127, 138, 152 demands on government, 127, 138, 152 demands on government, 127, 138, 152 demands on government, 12, 185, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and | | |
| product bans, 100, 102, 135 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 11, 12, 85, 137-139 extent of use, 19, 86-87, 133-135 key criteria affecting tool selection assurance of meeting goals, 136-137, 138, 152 demands on government, 137, 138, 179 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 186 extent of use, 19, 86-87, 133-155 debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 133-158 extent of use, 19, 86-87, 136-137, 138, 152 demands on government, 137, 138, 159 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 186 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 186 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 186 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assist | | |
| substates, 136, 139 technical assistance, 140, 141, 155-156 technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed criteria discussed criteria discussed debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection assurance of meeting goals, 136-137, 138, 152 demands on government, 137, 138, 179 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 152 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 152 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142 frinition of criterio fuse, 19, 86-87, 139-140 key cr | | |
| technology specifications, 97, 99, 156 tradeable emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 137, 138, 179 environmental equity and justice, 137, 138, 152 demands on government, 132, 138, 179 environmental equity and justice, 137, 138, 152 demands on government, 132, 138, 179 environmental equity and justice, 137, 138, 152 demands on government, 132, 138, 179 environmental equity and justice, 137, 138, 152 demands on government, 132, 138, 163 T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 152 extent of use, 19, 86-87, 139-140 key criteria affecting | | |
| demands on government, 137, 138, 179 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 137, 138, 179 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 73-74, 131 demands on government, 137, 138, 179 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 137, 138, 163 T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| radice emissions, 114, 157 summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R R R R R R R R R R R R R | | |
| summary of instrument effectiveness, 26-27, 154-155 product bans and limitations debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed also massistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 153-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| debates about, 102 definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed T technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 91, 195-196 | | |
| definition of instrument, 9, 10, 84, 98 extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 52-53 by state studies, 55-57 RECLAIM tradeable emissions program criteria discussed technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technical assistance debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion of criterion, 190-191 factors for comparing instruments, 191-192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness chalenge regulations, 118-119, 120, 195 design standards, 91, 195-196 | | т |
| extent of use, 16, 86-87, 98-100 key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed debates about, 142 definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | • |
| key criteria affecting tool selection adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed definition of instrument, 11, 12, 85, 137-139 extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| adaptability, 101, 102, 187 assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed extent of use, 19, 86-87, 139-140 key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| assurance of meeting goals, 100, 102, 148 cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed key criteria affecting tool selection adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| cost-effectiveness and fairness, 100, 102, 172 pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed adaptability, 142, 186 assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| pollution prevention, 100, 102, 155 technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed assurance of meeting goals, 140, 142, 142, 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| technology innovation and diffusion, 100, 102, 193-194 Proposition 65, California criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed 152 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed 163-164 cost-effectiveness and fairness, 141-142, 172 environmental equity and justice, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | cost-effectiveness and fairness, 141-142, 172 |
| criteria discussed assurance of meeting goals, 73-74, 131 demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed 163-164 pollution prevention, 141, 142, 155-156 see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | Proposition 65, California | environmental equity and justice, 141, 142, |
| demands on government, 132-133 environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed see also Massachusetts Office of Technical Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | criteria discussed | 163-164 |
| environmental equity and justice, 75-76, 131 pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed Assistance technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | assurance of meeting goals, 73-74, 131 | pollution prevention, 141, 142, 155-156 |
| pollution prevention, 74-75 description of program, 71-72, 130 R ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed technology innovation and diffusion definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | see also Massachusetts Office of Technical |
| description of program, 71-72, 130 definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 ranking of environmental problems by EPA-region studies, 53-56 instrument-by-instrument comparison, 193-198 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed definition of criterion, 190-191 factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 instrument-by-instrument comparison, 193-198 design standards, 56-57 RECLAIM tradeable emissions program criteria discussed | | |
| factors for comparing instruments, 191-192 diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 ranking of environmental problems by EPA-region studies, 53-56 instrument-by-instrument comparison, 193-198 by national studies, 52-53 instrument effectiveness by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed factors for comparing instruments, 191-192 innovation in the eg&s industry, 191, 192 innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| diffusion of known technologies, 192 innovation in the eg&s industry, 191, 192 ranking of environmental problems by EPA-region studies, 53-56 instrument-by-instrument comparison, 193-198 by national studies, 52-53 instrument effectiveness by state studies, 56-57 challenge regulations, 118-119, 120, 195 RECLAIM tradeable emissions program criteria discussed harm-based standards, 91, 195-196 | description of program, 71-72, 130 | |
| R innovation in the eg&s industry, 191, 192 ranking of environmental problems innovation in the regulated industries, 191 by EPA-region studies, 53-56 instrument-by-instrument comparison, 193-198 by national studies, 52-53 instrument effectiveness by state studies, 56-57 challenge regulations, 118-119, 120, 195 RECLAIM tradeable emissions program criteria discussed harm-based standards, 91, 195-196 | | |
| ranking of environmental problems by EPA-region studies, 53-56 by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed innovation in the regulated industries, 191 instrument-by-instrument comparison, 193-198 instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | D. | |
| by EPA-region studies, 53-56 instrument-by-instrument comparison, 193-198 by national studies, 52-53 instrument effectiveness by state studies, 56-57 challenge regulations, 118-119, 120, 195 design standards, 96, 196 criteria discussed harm-based standards, 91, 195-196 | | |
| by national studies, 52-53 by state studies, 56-57 RECLAIM tradeable emissions program criteria discussed instrument effectiveness challenge regulations, 118-119, 120, 195 design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| by state studies, 56-57 challenge regulations, 118-119, 120, 195 RECLAIM tradeable emissions program criteria discussed design standards, 96, 196 harm-based standards, 91, 195-196 | | |
| RECLAIM tradeable emissions program design standards, 96, 196 criteria discussed harm-based standards, 91, 195-196 | | |
| criteria discussed harm-based standards, 91, 195-196 | | |
| | | |
| | administrative burden to sources, 61-62 | information reporting, 134, 197-198 |

integrated permitting, 107, 196-197 cost-effectiveness and fairness, 97, 99, liability, 128, 197 172-173 pollution charges, 123, 124, 194 pollution prevention, 97, 99, 156 product bans, 101, 102, 193-194 tradeable emissions subsidies, 138, 198 debates about, 114 technical assistance, 142, 198 definition of instrument, 10, 12, 84, 106, 108 technology specifications, 99, 196 extent of use, 16, 86-87, 108-110 tradeable emissions, 112-113, 114, 194-195 key criteria affecting tool selection summary of instrument effectiveness, 28-29, assurance of meeting goals, 110-111, 114, 192-193 150-151 technology specifications cost-effectiveness and fairness, 111-112, 114, debates about, 99 definition of instrument, 9, 10, 84, 95, 97 environmental equity and justice, 111, 114, extent of use, 16, 86-87, 97 key criteria affecting tool selection technology innovation and diffusion, 112-113, adaptability, 97-98, 99, 187 114, 194-195 assurance of meeting goals, 97, 99, 148-149 see also RECLAIM tradeable emissions program