

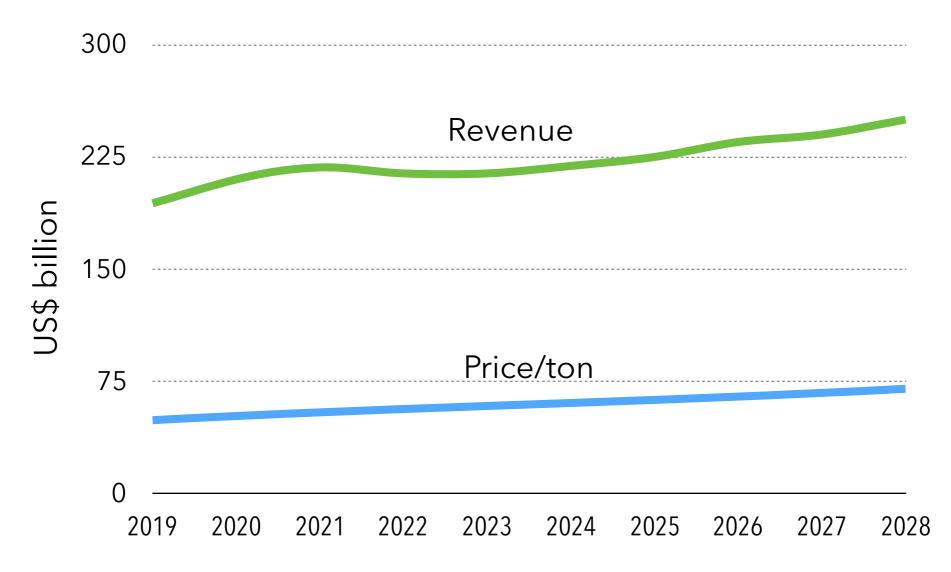
## Office of Tax Analysis Working Paper 115 January 2017

## Methodology for Analyzing a Carbon Tax

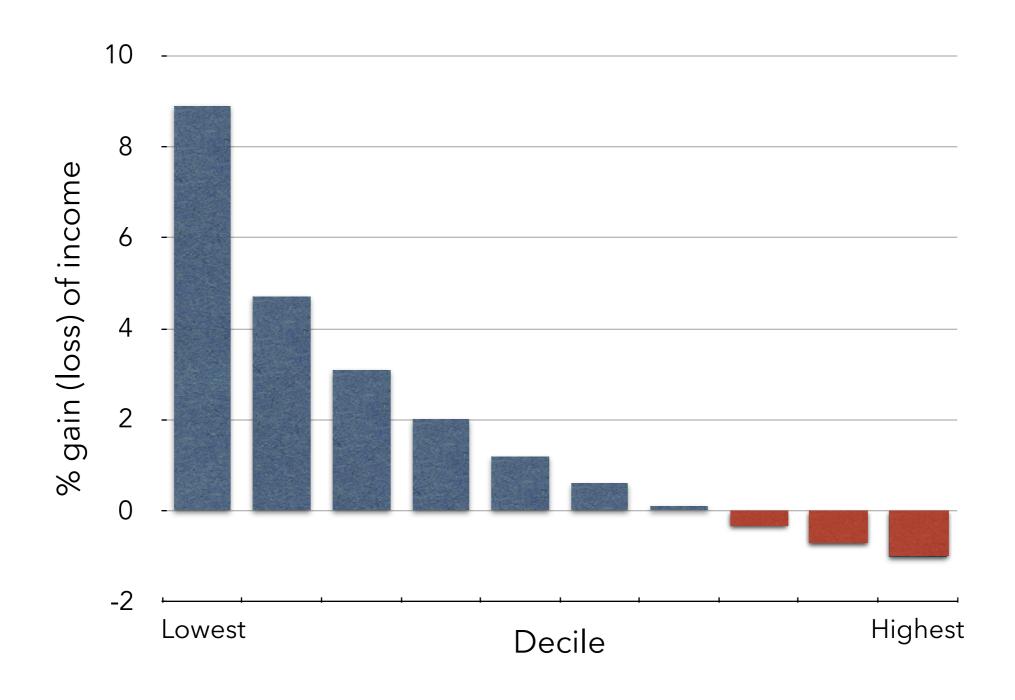
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## PROJECTED REVENUE FROM CARBON FEES

2019-2028



## IMPACT OF CARBON DIVIDENDS ON U.S. FAMILY INCOMES



Source: US Treasury, 2017: www.treasury.gov/resource-center/tax-policy/tax-analysis/Documents/WP-115.pdf

| Table 2. Tax, Net Revenue, and Emissions under a Carbon Tax (main scenario) |       |       |       |       |       |       |       |       |       |       |  |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
|   | 2019  | 2020  | 2021  | 2022  | 2023  | 2024  | 2025  | 2026  | 2027  | 2028  |  |
| Tax <sup>a</sup> (\$/mt CO2-e, nominal)                                     | \$49  | \$52  | \$54  | \$56  | \$58  | \$60  | \$62  | \$65  | \$67  | \$70  |  |
|   |       |       |       |       |       |       |       |       |       |       |  |
| Revenue and   |       |       |       |       |       |       |       |       |       |       |  |
| Emissions   |       |       |       |       |       |       |       |       |       |       |  |
| Net revenue <sup>b,c</sup> (\$bn, nominal)                                  | \$194 | \$210 | \$218 | \$214 | \$214 | \$219 | \$225 | \$235 | \$240 | \$250 |  |

Table 6: The Distribution of \$49/mt Carbon Tax and Revenue Recycling Options

|   |                       |                                   |  | Change in After-Tax Income |                            |  |     |                                 |  |
|---|-----------------------|-----------------------------------|--|----------------------------|----------------------------|--|-----|---------------------------------|--|
| Adjusted<br>Family Cash<br>Income<br>Decile | Number of<br>Families | Distribution<br>of Cash<br>Income | Current Law Federal<br>Tax Burden as a %<br>of Cash Income | No Revenue<br>Recycling    | \$583 Per<br>Person Rebate | Reduce<br>OASDI<br>Payroll Tax<br>Rate |     | Reduce<br>Corporate<br>Tax Rate |  |
|   | (millions)            | (%)                               | (%)  | (%)                        |                            | (%)                                    |     | (%)                             |  |
|   |                       |                                   |  |                            |                            |  |     |                                 |  |
| 0 to 10                                     | 16.4                  | 1.0                               | -10.3  | -0.8                       | 8.9                        | )                                      | 0.0 | -0.5                            |  |
| 10 to 20                                    | 17.2                  | 2.1                               | -4.4   | -1.2                       | 4.7                        | ,                                      | 0.0 | -1.0                            |  |
| 20 to 30                                    | 17.2                  | 2.8                               | 1.4  | -1.4                       | 3.1                        |  | 0.1 | -1.1                            |  |
| 30 to 40                                    | 17.2                  | 3.7                               | 5.6  | -1.5                       | 2.0                        | )                                      | 0.0 | -1.1                            |  |
| 40 to 50                                    | 17.2                  | 5.0                               | 9.2  | -1.6                       | 1.2                        | 2                                      | 0.1 | -1.1                            |  |
| 50 to 60                                    | 17.2                  | 6.6                               | 12.3   | -1.7                       | 0.6                        | 5                                      | 0.1 | -1.1                            |  |
| 60 to 70                                    | 17.2                  | 8.5                               | 15.0   | -1.8                       | 0.1                        | ı                                      | 0.2 | -1.0                            |  |
| 70 to 80                                    | 17.2                  | 11.2                              | 17.6   | -1.8                       | -0.3                       | ;                                      | 0.3 | -1.0                            |  |
| 80 to 90                                    | 17.2                  | 15.5                              | 20.9   | -1.8                       | -0.7                       | ,                                      | 0.4 | -0.8                            |  |
| 90 to 100                                   | 17.2                  | 45.1                              | 29.0   | -1.5                       | -1.0                       | ) -                                    | 0.3 | 1.5                             |  |
|   |                       |                                   |  |                            |                            |  |     |                                 |  |