STATE OF NEW YORK

542

2021-2022 Regular Sessions

IN SENATE

(Prefiled)

January 6, 2021

Introduced by Sen. KAMINSKY -- read twice and ordered printed, and when printed to be committed to the Committee on Finance

AN ACT to amend the state finance law and the tax law, in relation to implementing "The New York State Low Embodied Carbon Concrete Leader-ship Act"

The People of the State of New York, represented in Senate and Assembly, do enact as follows:

Section 1. This act shall be known and may be cited as "The New York
State Low Embodied Carbon Concrete Leadership Act".

3 § 2. Section 165 of the state finance law is amended by adding a new 4 subdivision 9 to read as follows:

9. Special provisions for purchase of concrete.

5

6 <u>a. For the purposes of this section, the following terms shall have</u> 7 <u>the following meanings:</u>

8 (i) "Concrete" shall mean structural and non-structural masonry, pre 9 cast and ready-mix concrete building products.

(ii) "Concrete mix" shall mean a specific combination of components, including water, cement, aggregate and other materials which are used to produce concrete products. The structural properties of concrete mixes vary by strength, durability, curing time and other performance characteristics as a result of the defined proportions of their components and the methods used in their production. (iii) "Portland cement" shall mean hydraulic cement produced by

17 pulverizing clinkers in combination with one or more of the forms of 18 calcium sulfate.

19 <u>(iv) "Embodied carbon emissions" shall mean carbon emissions generated</u> 20 <u>as a result of a material's production, including mining, refining, and</u> 21 <u>shipping.</u>

22 (v) "Global warming potential" (GWP) shall mean a numeric value that 23 measures the total contribution to global warming from the emission of

EXPLANATION--Matter in <u>italics</u> (underscored) is new; matter in brackets [-] is old law to be omitted.

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1	greenhouse gases, or the elimination of greenhouse gas sinks, that
2	results from the production and/or utilization of a specific product or
3	service.
4	(vi) "Carbon dioxide equivalent" (CO2e) shall mean a measure used to
5	compare the emissions from various greenhouse gases based upon their
б	global warming potential.
7	(vii) "Low embodied carbon concrete" shall mean concrete that has been
8	verified to embody lower carbon emissions, as measured by a GWP metric,
9	compared to the baseline embodied carbon emissions of conventional
10	concrete made with portland cement. Low embodied carbon emissions can be
11	achieved through diverse methods and processes including, but not limit-
12	ed to: (A) higher energy efficiency at the level of the concrete and/or
13	cement plant; (B) low carbon fuel substitution at the level of the
14	concrete and/or cement plant; (C) local production resulting in reduced
15	emissions from transportation; (D) the reduction of clinker content in
16	the cement component of concrete, or the substitution of clinker content
17	with lower carbon-intensive alternative materials like supplementary
18	cementitious materials (SCMs) such as ground granulated blast furnace
19	slaq, fly ash, and recycled ground-glass pozzolan; (E) the capture and
20	storage of point source CO2 emissions during the cement and concrete
21	production process; or (F) the utilization and mineralization of carbon
22	in concrete materials.
23	(viii) "Environmental product declaration" (EPD) shall mean product
24	specific Type III EPDs that conform to ISO Standard 14025 and enable the
25	numeric GWP and environmental impact comparisons between concrete mixes
26	fulfilling the same functions.
27	(ix) "Carbon capture, utilization and/or storage" (CCUS) shall mean
28	methods and technologies to remove CO2 from the flue gas and from the
29	atmosphere, followed by recycling the CO2 for utilization and/or deter-
30	mining safe and permanent storage options for captured CO2.
31	(x) "Concrete delivery miles" (CDM) shall mean the distance in miles
32	concrete mixer trucks travel from the production facility to the job
33	site plus return travel.
34	(xi) "Low embodied carbon discount rate" shall mean a rate, set by the
35	commissioner, applied to one or more of the bids for supply of concrete
36	and based on the GWP derived from certified EPD analysis of each bid
37	relative to all competitive bids. Estimated CO2e resulting from project
38	CDM shall be assessed in addition to GWP derived from EPD analysis and
39	factored into the discount rate.
40	(xii) "Low embodied carbon concrete breakthrough" shall mean any tech-
41	nology, method, or product, including but not limited to one that incor-
42	porates qualified carbon capture utilization and storage, that once
43	fully commercialized and implemented has the potential to significantly
44	reduce the GWP of concrete.
45	(xiii) "Low embodied carbon concrete breakthrough discount rate" shall
46	mean a discount, set by the commissioner, applied to one or more of the
47	bids for supply of concrete and based on the incorporation of qualified
48	low embodied carbon concrete breakthroughs.
49	(xiv) "Net zero CO2 emissions" shall mean a state whereby the total
50	amount of CO2 utilized and/or captured during the concrete production
50 51	process and/or mineralized in concrete materials are equal to the amount
52	of CO2 emissions released during the production and utilization of that
53	concrete.
53 54	(xv) "Net negative CO2 emissions" shall mean a state whereby the
55	amount of CO2 utilized and/or captured during the concrete production
56	process and/or mineralized in concrete materials are greater than the
5 h	

1	amount of CO2 emissions released during the production and utilization
2	of that concrete.
3	b. When letting contracts for the purchase of fifty cubic yards or
4	more of concrete on behalf of facilities, transportation authorities and
5	institutions of the state, solicitation specifications of the office of
б	general services and any other agency, department, office, board or
7	commission shall apply a low embodied carbon concrete price discount
8	rate to offerer bids for the purposes of bid assessment and selection.
9	Discount rates will be applied to offerer bid prices on the basis of the
10	GWP values for concrete products specified in offerer bids. GWP values
11	shall be submitted by offerers in the form of certified EPDs. In addi-
12	tion to GWP values quantified in EPD submissions, the effect of CDM and
13	the fuel usage/emissions factor thereof shall be considered. The CO2e
14	emissions quantified for CDM shall be incorporated into the GWP values
15	quantified in EPD. A price discount not exceeding five percent shall be
16	applied to top performing bids that certify the lowest GWP values via
17	EPD submission. The commissioner shall establish rules and guidelines
18	whereby specific price discount rates shall be determined and applied to
19	bids based on GWP performance.
20	c. For bids that have been certified by the commissioner to incorpo-
21	rate low embodied carbon concrete breakthrough products and technolo-
22	gies, the commissioner shall establish a supplemental price discount
23	rate to be applied in addition to the low embodied carbon concrete
24	discount rate defined in paragraph b of this subdivision. Bids that
25	receive price discounts based on GWP performance and which incorporate
26	qualified low embodied carbon concrete breakthrough products and tech-
27	nologies will be granted a supplemental price discount for bid assess-
28	ment and selection purposes that shall not exceed three percent. The
29	low embodied carbon concrete breakthrough discount rate shall be added
30	to the low embodied carbon discount rate and applied to the base bid
31	price.
32	<u>price.</u> <u>d. The New York state energy research and development authority is</u>
32 33	price. d. The New York state energy research and development authority is directed to establish criteria for qualifying a technology, method, or
32 33 34	<u>price.</u> <u>d. The New York state energy research and development authority is</u> <u>directed to establish criteria for qualifying a technology, method, or</u> <u>product as a low embodied carbon concrete breakthrough, including: (i)</u>
32 33 34 35	<u>price.</u> <u>d. The New York state energy research and development authority is</u> <u>directed to establish criteria for qualifying a technology, method, or</u> <u>product as a low embodied carbon concrete breakthrough, including: (i)</u> <u>the minimum threshold for what constitutes a significant concrete GWP</u>
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$\begin{array}{c} 32\\ 33\\ 34\\ 35\\ 36\\ 37\\ 38\\ 39\\ 40\\ 42\\ 43\\ 44\\ 45\\ 46\\ 47\\ 48\\ 9\\ 50\\ 51\\ 52\end{array}$	<pre>price. d. The New York state energy research and development authority is directed to establish criteria for qualifying a technology, method, or product as a low embodied carbon concrete breakthrough, including: (i) the minimum threshold for what constitutes a significant concrete GWP reduction, relative to net emissions reduction targets established in chapter one hundred six of the laws of two thousand nineteen; and (ii) appropriate stage of market adoption and penetration. The commissioner shall evaluate potential new low carbon concrete breakthrough technolo- gies, methods, and products and maintain an annually updated directory of qualified low embodied carbon concrete breakthrough technologies, methods, and products. e. For bid opportunities that include multiple concrete mixes the GWP of all mixes will be proportionally weighted into a single GWP score that will serve as the basis for assessment and selection. f. For state-funded construction projects that will be completed by private contracting firms that have been contracted by the state, and for which concrete will be procured for the project, such contractors shall comply with the selection standards and rules stipulated in this paragraph when subcontracting services from concrete providers. Such contractors shall report EPD documentation included in subcontract bids that demonstrate compliance with the standards and rules. The commis- tion that demonstrate compliance with the standards and rules.</pre>
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lines that will assist agencies in determining which contracts meet the 1 requirements in paragraph b of this subdivision; (ii) publishing such 2 3 purchasing guidelines on the office of general services' website, 4 disseminating such guidelines to agencies and training contracting 5 personnel on implementing such quidelines; and (iii) providing for moniб toring of implementation. 7 h. The commissioner shall complete and submit to the legislature an 8 annual cost-benefit analysis of the low embodied carbon concrete 9 procurement standard, in order to quantify the budgetary impact of the 10 program relative to the latter's carbon reduction impact and recommend any additional incentives or requirements that may be necessary to help 11 the state meet its clean energy goals established in chapter one hundred 12 13 six of the laws of two thousand nineteen. 14 § 3. Section 606 of the tax law is amended by adding a new subsection (kkk) to read as follows: 15 16 (kkk) The environmental product declaration tax credit. (a) Defi-17 nitions. For the purposes of this section: (i) "low embodied carbon concrete" shall mean concrete that has been 18 19 verified by environmental product declaration to embody lower carbon 20 emissions, as measured by a Global Warming Potential (GWP) metric, 21 compared to the baseline embodied carbon emissions of conventional 22 concrete. (ii) "environmental product declaration (EPD) analysis" shall mean 23 24 product specific Type III EPDs that conform to ISO Standard 14025 and 25 enable global warming potential (GWP) and environmental impact compar-26 isons between products fulfilling the same functions. 27 (b) Allowance of credit. Producers of concrete, as well as the producers of the major concrete components, cement and aggregate, that are 28 29 taxpayers shall be allowed a credit, to be computed as provided in this 30 subsection, against the tax imposed by this article, to compensate for 31 financial burdens incurred as a result of EPD analyses undertaken to 32 determine the product-based embodied carbon emissions of one or multiple 33 concrete products produced at one or multiple plants that such taxpayer 34 owns and operates. 35 (c) Amount of credit. The credit authorized by this subsection shall not exceed the lessor of: (i) the full costs incurred for an EPD analy-36 sis of a single concrete, cement, supplementary cementitious materials, 37 and/or aggregate production facility; or (ii) three thousand dollars, 38 and may be claimed for the costs of completing EPD analyses at up to 39 40 eight facilities owned by the same producer in a single tax year by a 41 single taxpaying entity in tax years two thousand twenty-two and two 42 thousand twenty-three. Tax credit eligibility will expire at the end of 43 two thousand twenty-three. 44 (d) Application of credit. The credit allowed under this subsection 45 for any taxable year shall not reduce the tax due for such year to less 46 than the fixed dollar minimum amount prescribed in paragraph (d) of 47 subdivision one of section two hundred ten of this chapter. However, if 48 the amount of the credit allowed under this subsection for any taxable year reduces the tax to such amount or if the taxpayer otherwise pays 49 tax based on the fixed dollar minimum amount, any amount of credit thus 50 51 not deductible in such taxable year shall be treated as an overpayment 52 of tax to be credited or refunded in accordance with the provisions of 53 section one thousand eighty-six of this chapter. Provided, however, the 54 provisions of subsection (c) of section one thousand eighty-eight of

55 this chapter notwithstanding, no interest shall be paid thereon.

1 § 4. This act shall take effect on the first of January next succeed-2 ing the date on which it shall have become a law and shall apply to 3 taxable years commencing on and after such date. Effective immediately, 4 the addition, amendment and/or repeal of any rule or regulation neces-5 sary for the implementation of this act on its effective date are 6 authorized to be made and completed on or before such effective date.