



TPEM Overview

TPEM AVAILABILITY PER POWER CATEGORY



When can manufacturers participate?

- TPEM availability varies according to the power category
 - Power categories are different for Part 89 and Part 1039
 - The power category of a flex engine (TPEM engine) is determined by:
 - Engine power rating if engine was not previously certified
 - For engines previously certified, power category is determined by the engine manufacturer at certification
 - While the power category is largely determined by engine rating, some provisions allow engine manufacturers to combine engines from different power categories during the certification process. Check with your engine manufacturer to determine what power category your engine was originally certified to.



TPEM Timeline

hp (kW)	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021
<10.7 (8)			2			4													
>10.7 (8) <25.5 (19)			2			4													
>25.5 (19) <49.6 (37)		2				4					4+								
>49.6 (37) <75.1 (56)		2				3/4				4 Opt1	4 Opt2								
>75.1 (56) <100.6 (75)		2				3				4		4+							
>100.6 (75) <174.3 (130)	2				3					4		4+							
>174.3 (130) <301.7(225)	2			3					4			4+							
>301.7 (225) <603.5 (450)				3					4			4+							
>603.5 (450) <751.0 (560)				3					4			4+							
>751.0 (560)				2					4				4+						

This chart represents the years TPEM is available for each power category

Blue = Tier 4

Notice that power categories for Tier 4 TPEM are different from Part 89 TPEM. Red lines divide Tier 4 categories (see next slide)

Gray – Part 89 TPEM; Pink – Pull-ahead period; Yellow – Regular Tier 4 TPEM; Blue, delayed TPEM



Tier 4 Power Categories

- Equipment manufacturers get one allowance per power category at the parent company level.
 - All companies/divisions/subsidiaries under the control of one person or entity must count towards the same allowance.

Power category
$kW < 19$
$19 \leq kW < 56$
$56 \leq kW < 130$
$130 \leq kW \leq 560$
$kW > 560$



Tier 4 TPEM: General vs Delayed

TABLE 1 OF §1039.625—GENERAL AVAILABILITY OF ALLOWANCES

Power category	Calendar years
kW <19	2008-2014
19 ≤kW <56	2008-2014
56 ≤kW <130	2012-2018
130 ≤kW ≤560	2011-2017
kW >560	2011-2017

(2) If you do not use any allowances in a power category before the earliest dates shown in the following table, you may delay the start of the seven-year period for using allowances under this section as follows:

TABLE 2 OF §1039.625—AVAILABILITY OF DELAYED ALLOWANCES

Power category	Calendar years
kW <19	
19 ≤kW <56	2012-2018
56 ≤kW <130	2014-2020
130 ≤kW ≤560	2014-2020
kW >560	2015-2021

If an equipment manufacturer did not use TPEM on any particular power category during the “general availability period,” they may start using the program during the “delay availability period.”

Manufacturers must use the program within the years specified for the power category and availability period established by the regs, as shown in these tables.