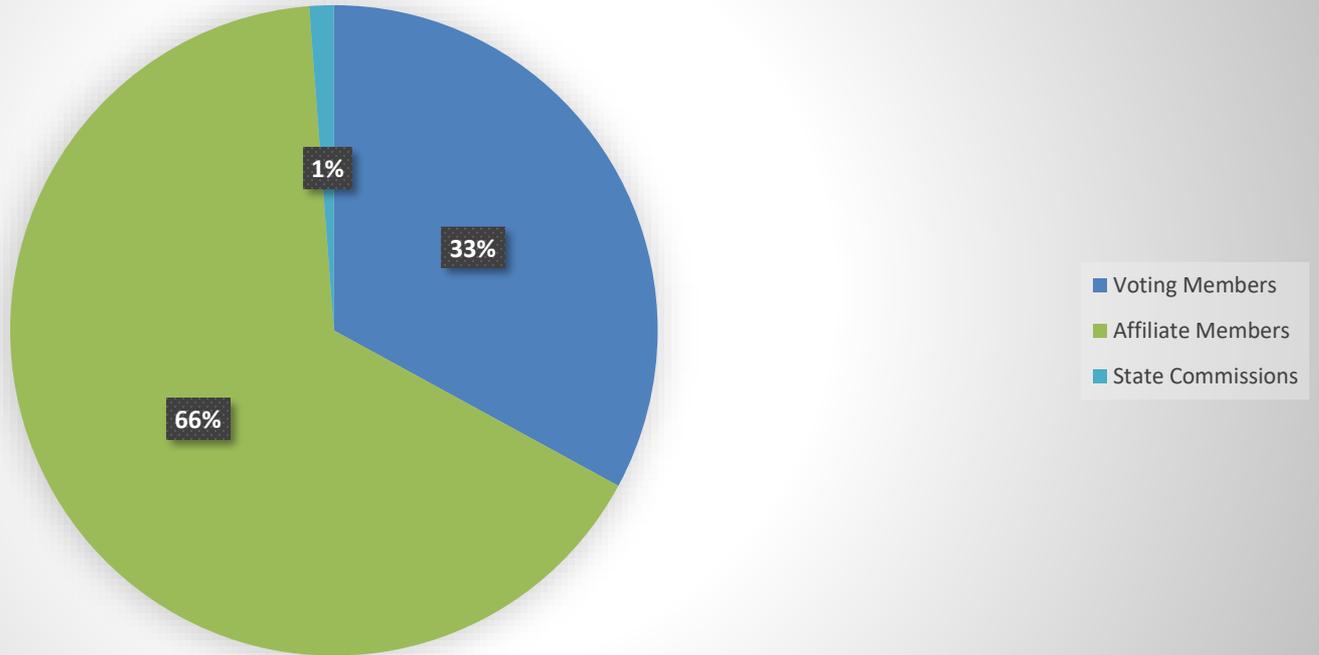


Fuel Requirements for Black Start Resources Poll Results

PJM Interconnection
09/10/2019

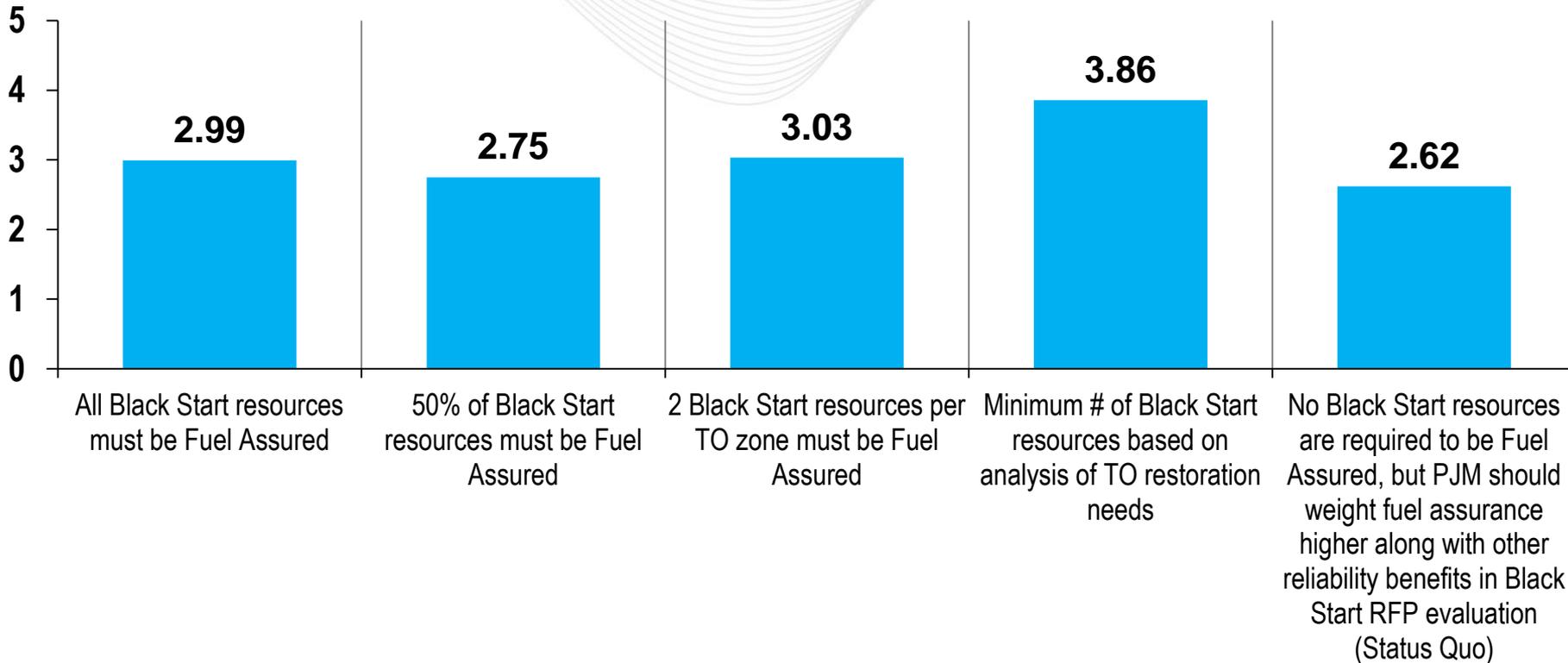
Response Summary



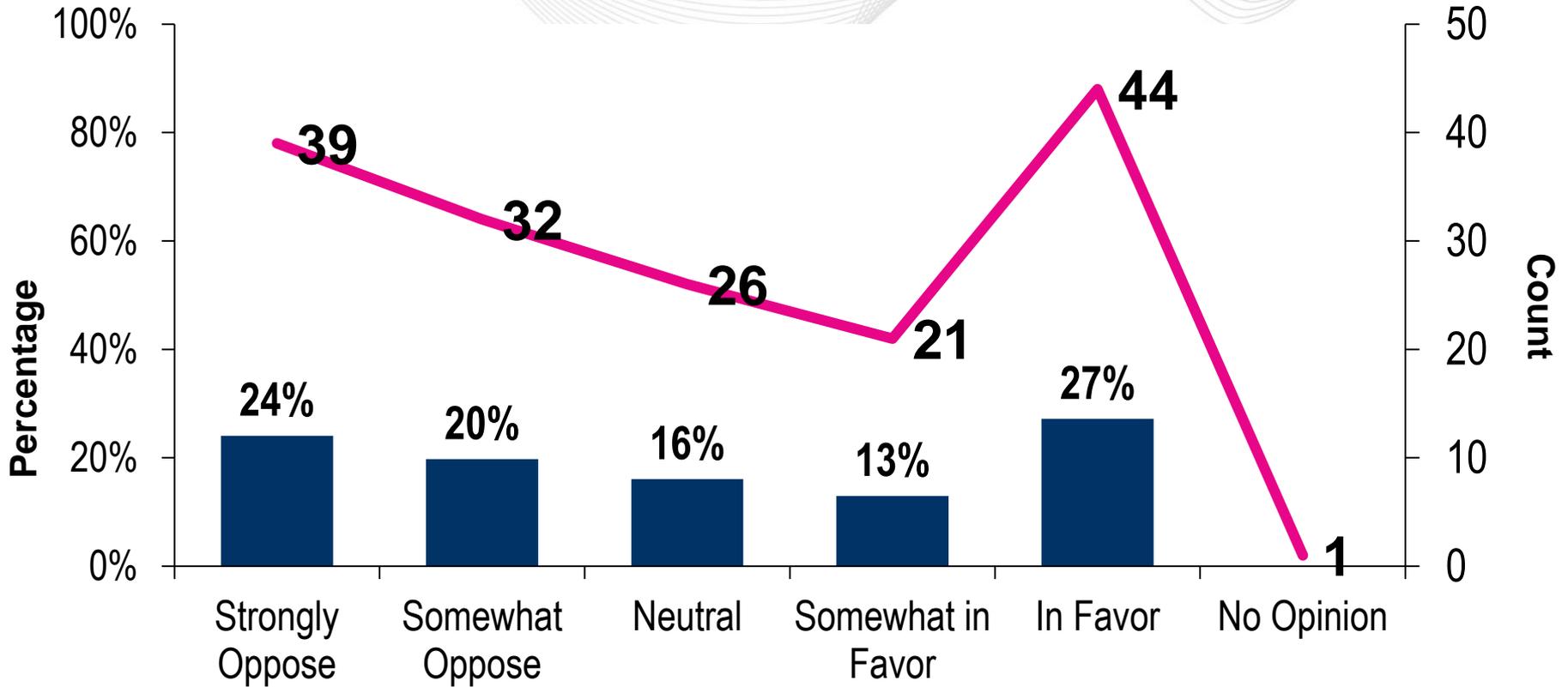
1. Weighing the projected costs versus the reliability benefits, please indicate your level of support for degrees of Black Start Resource Fuel Assurance.

Weighted Average (Out of 5 Ratings)

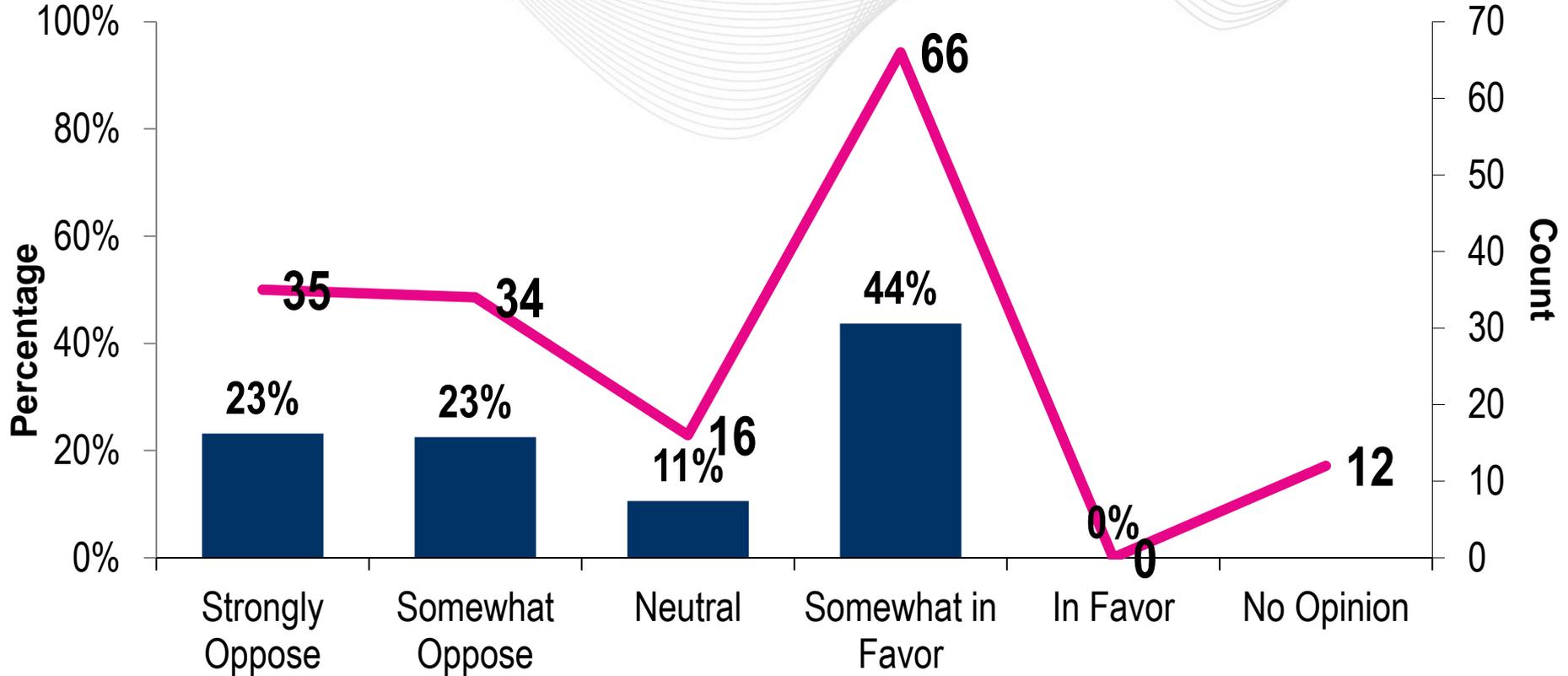
Count



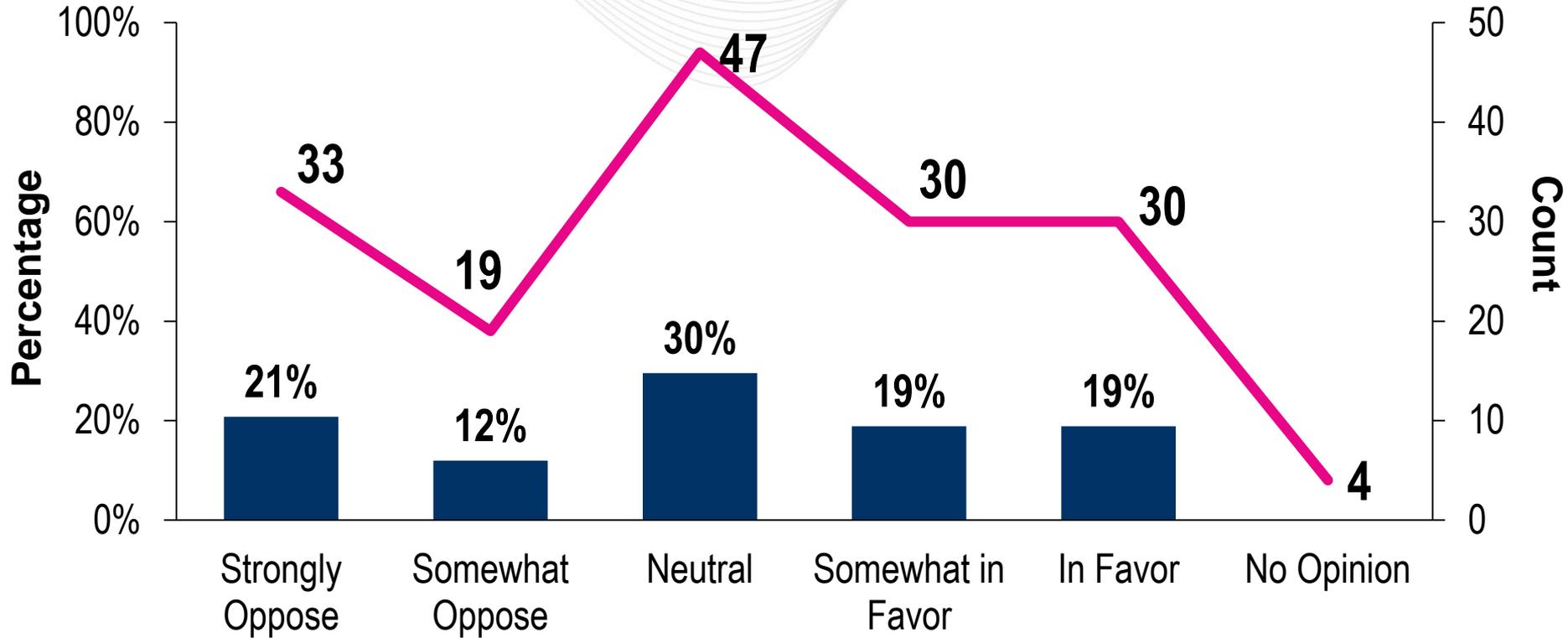
All Black Start resources must be Fuel Assured



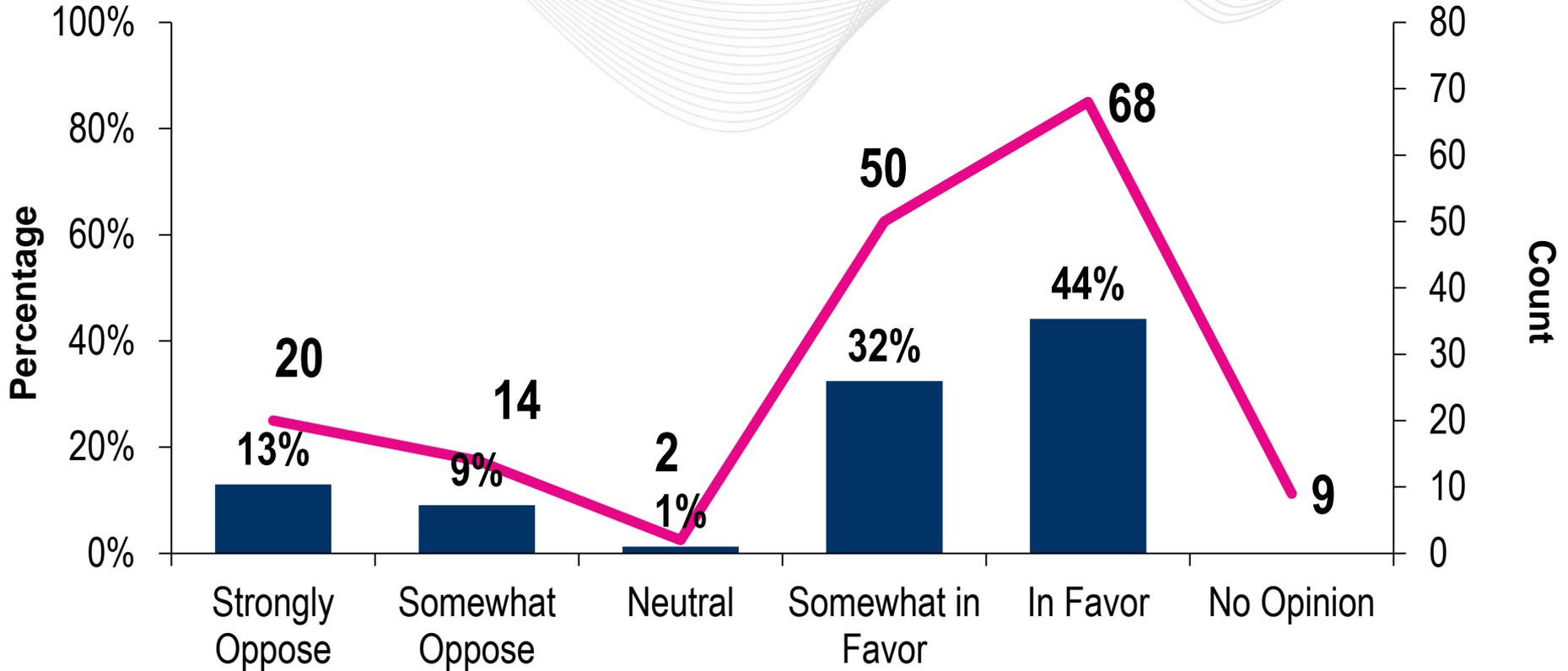
50% of Black Start resources must be fuel assured



2 Black Start resources per TO zone must be Fuel Assured

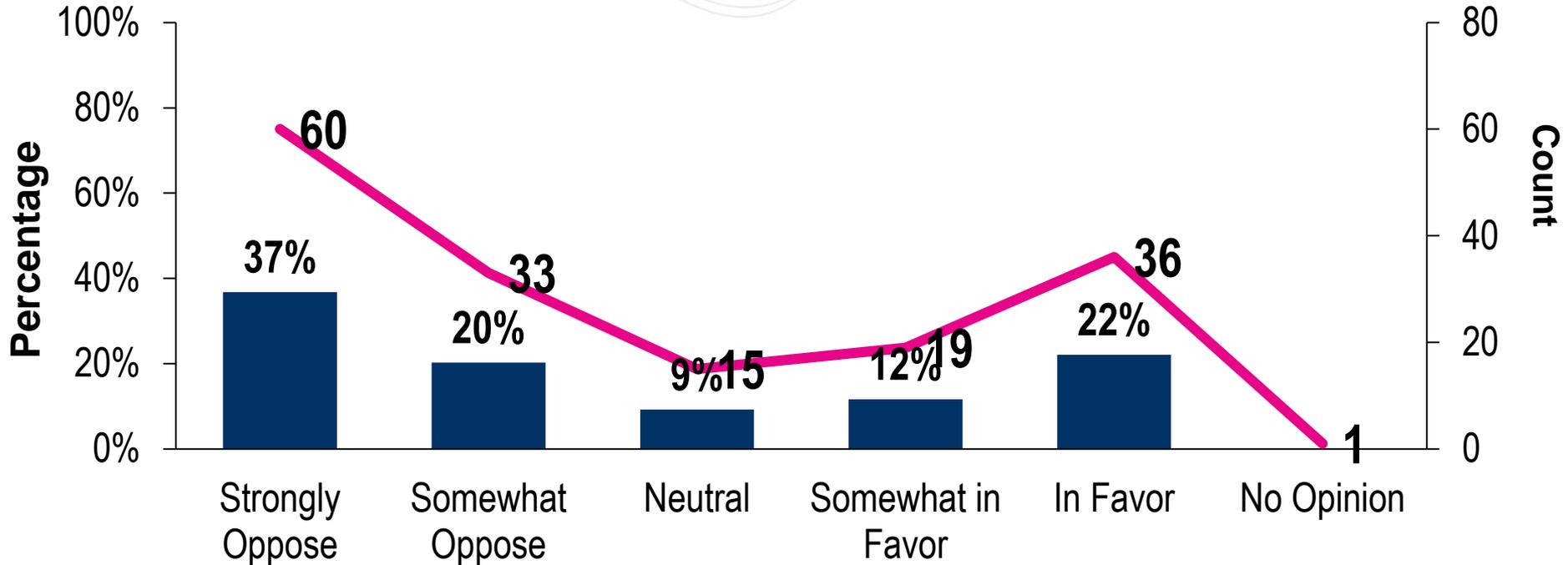


Minimum # of Black Start resources based on analysis of TO restoration needs



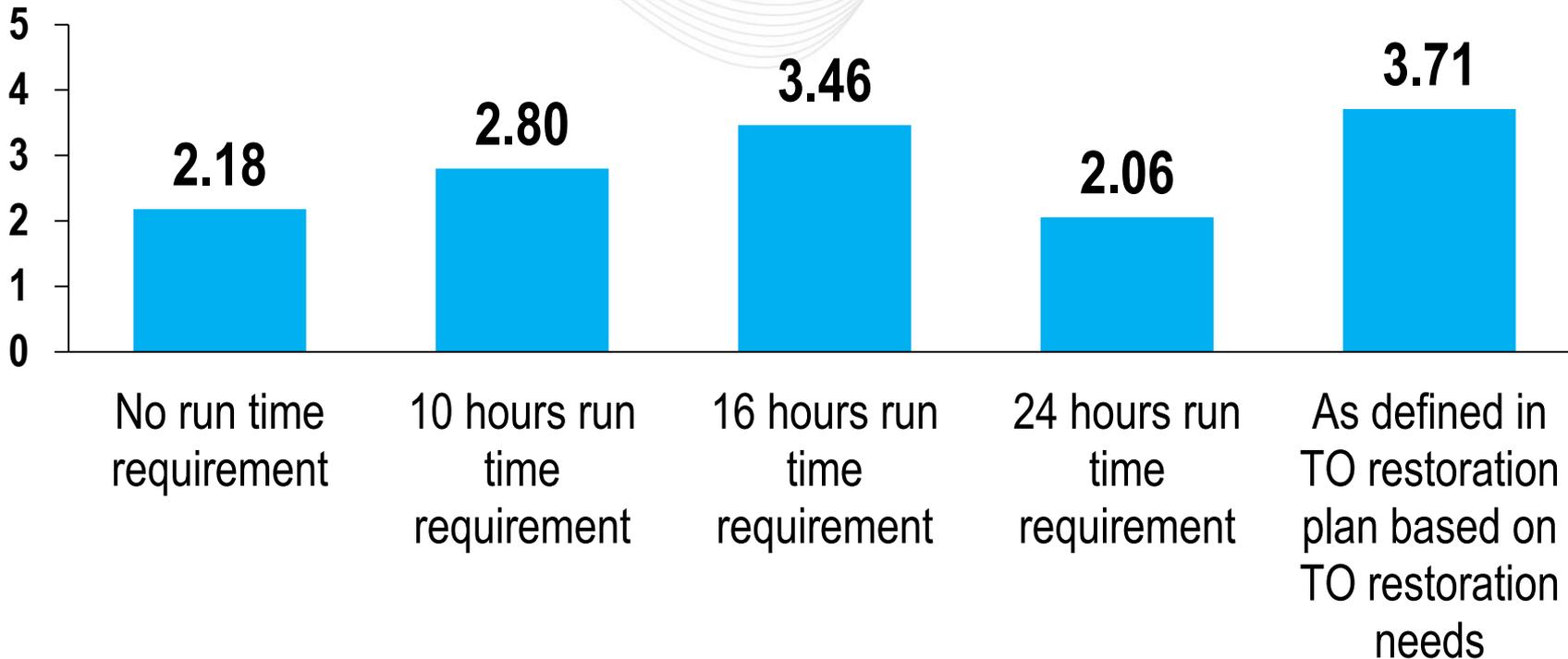


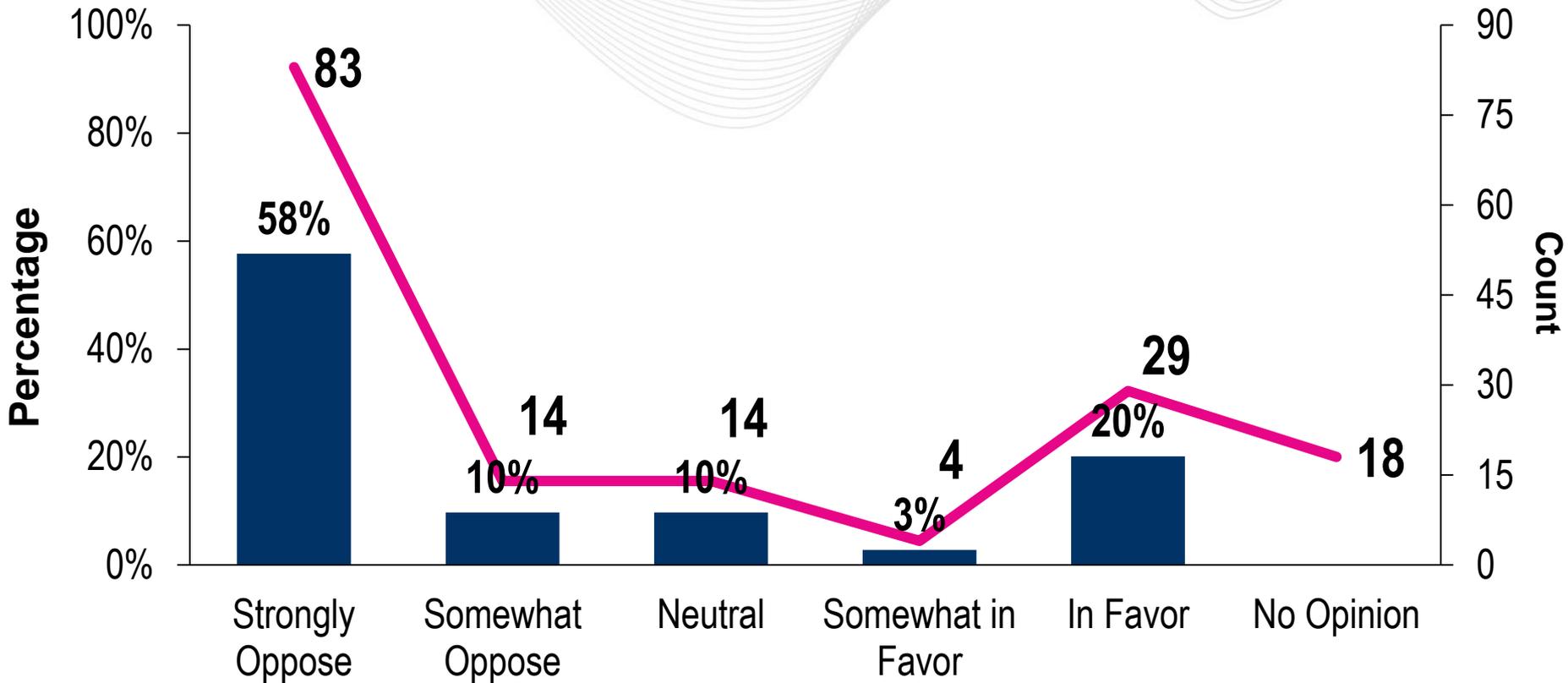
No Black Start resources are required to be Fuel Assured, but PJM should weight fuel assurance higher along with other reliability benefits in Black Start RFP evaluation (Status Quo)

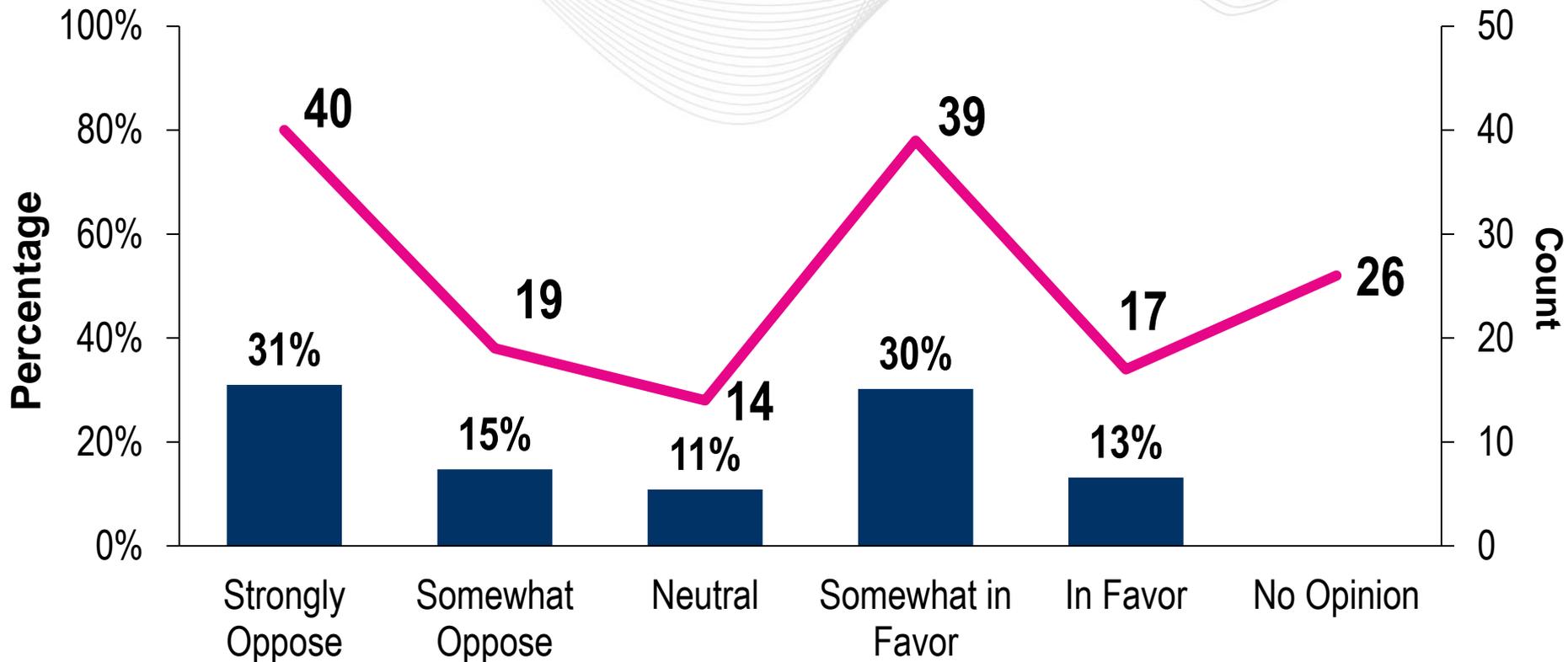


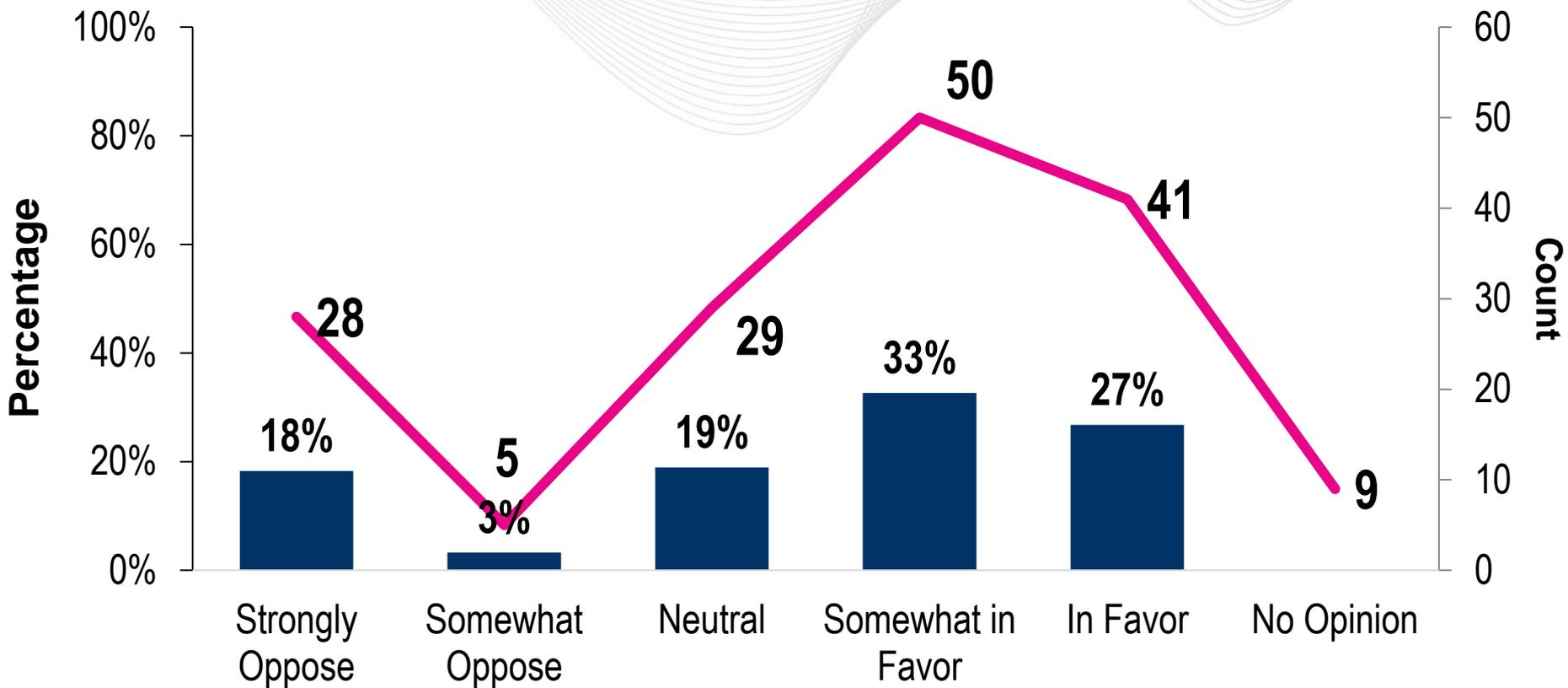
2. Please indicate your level of support for the minimum run time requirement options for black start resources to be considered fuel assured (i.e. fuel available for run hours at max load).

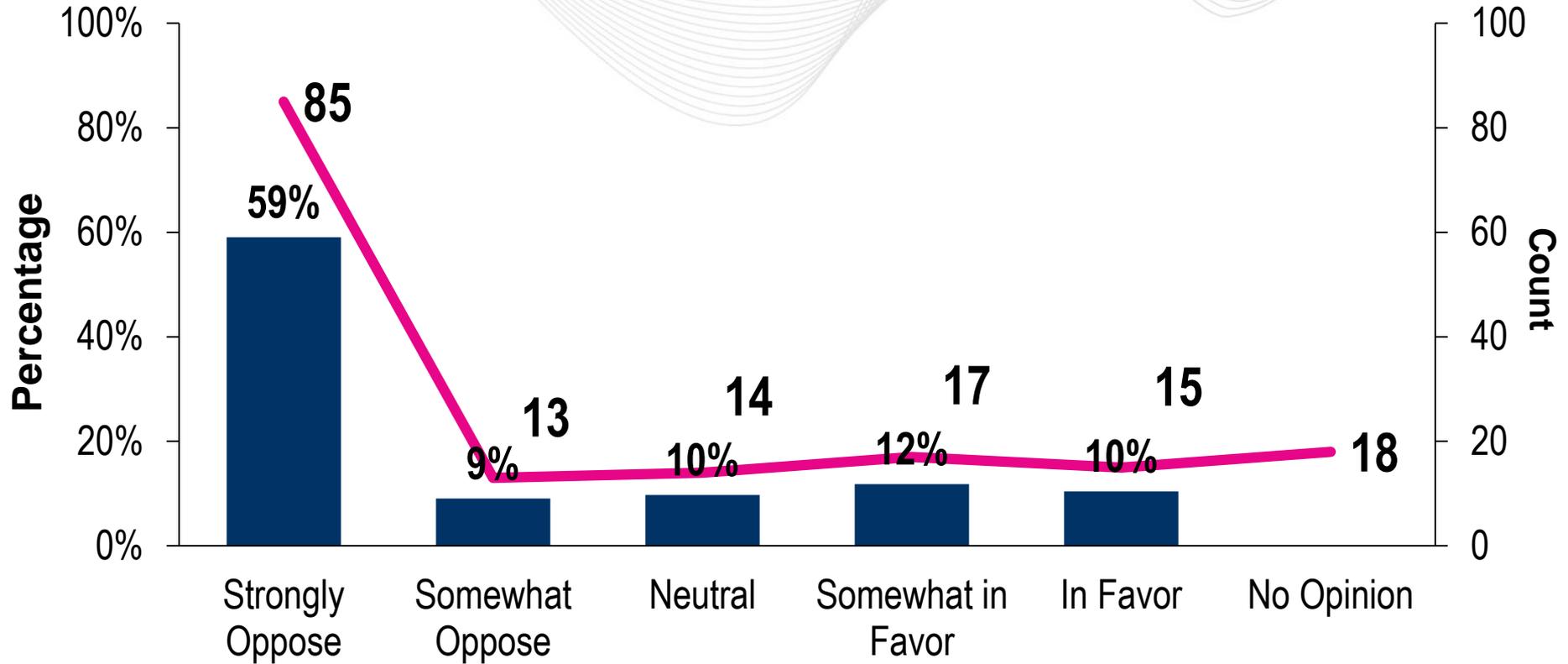
Count



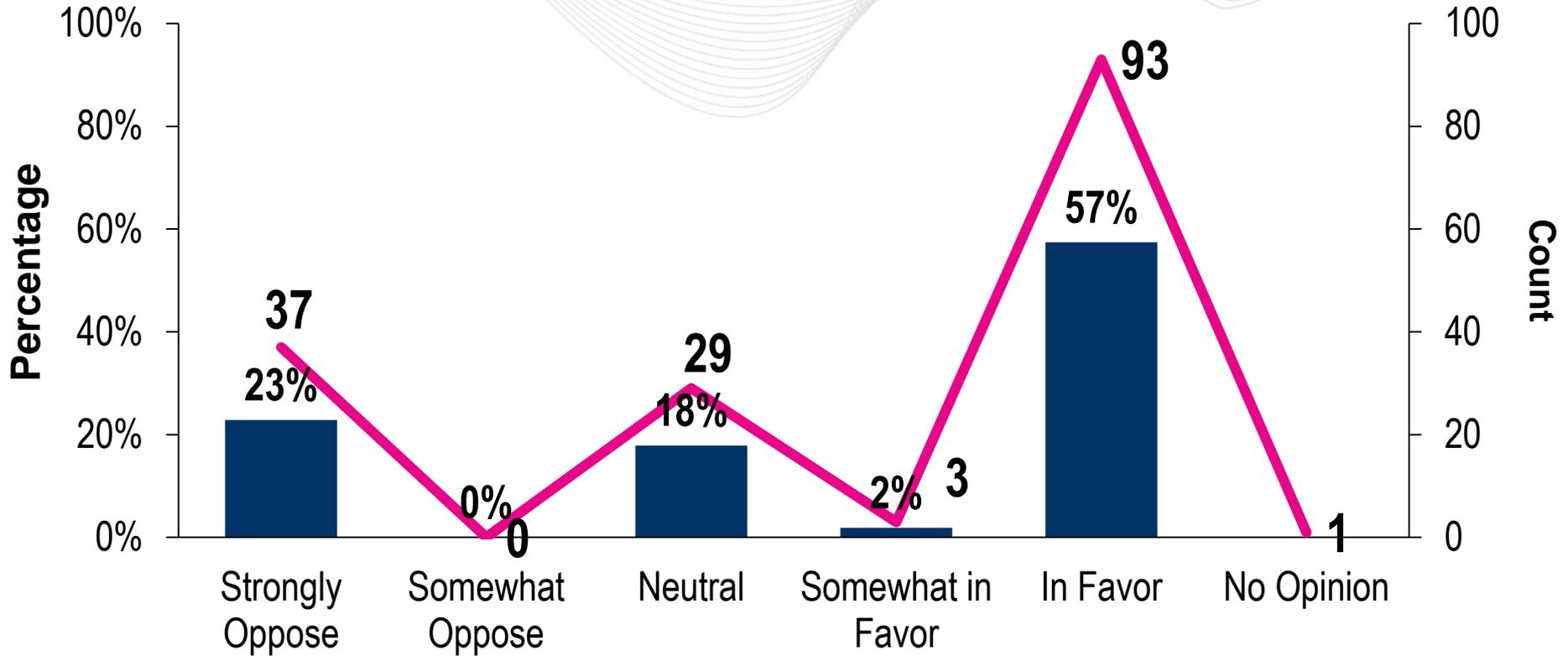






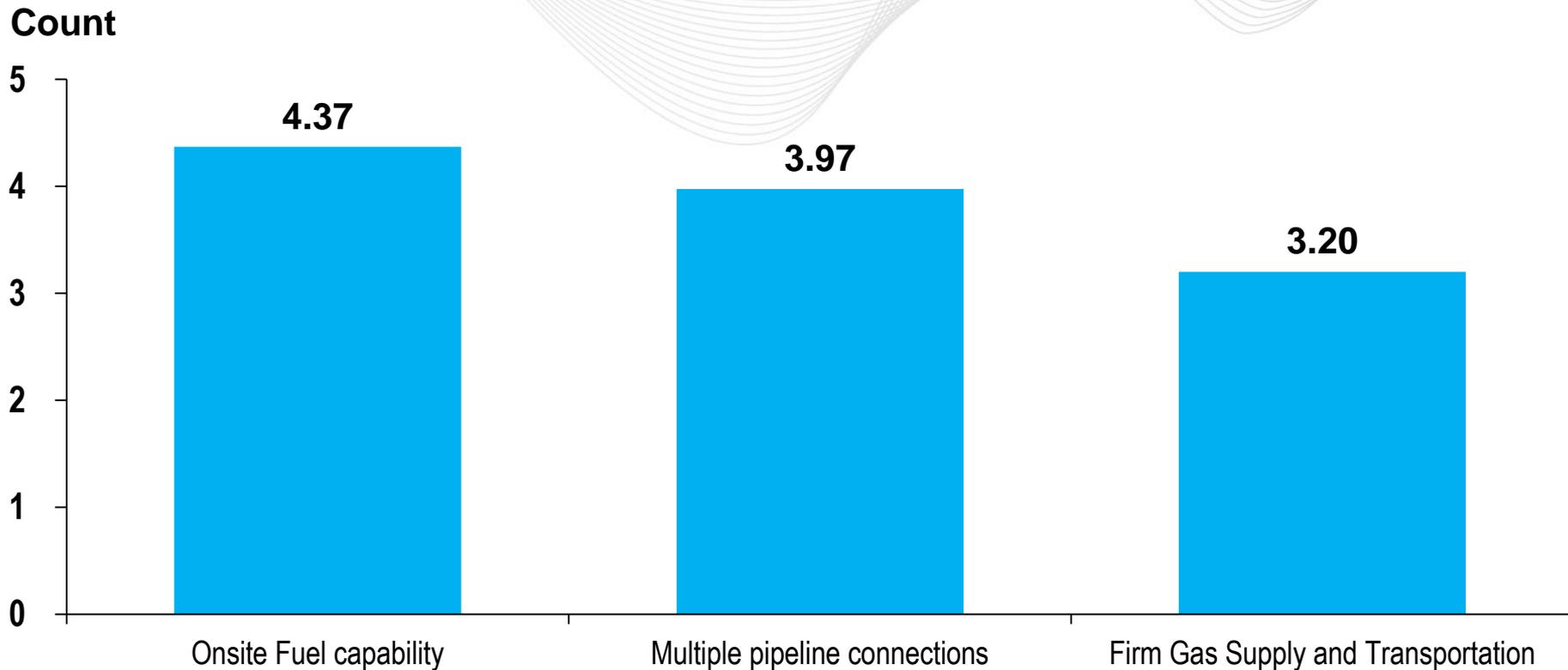


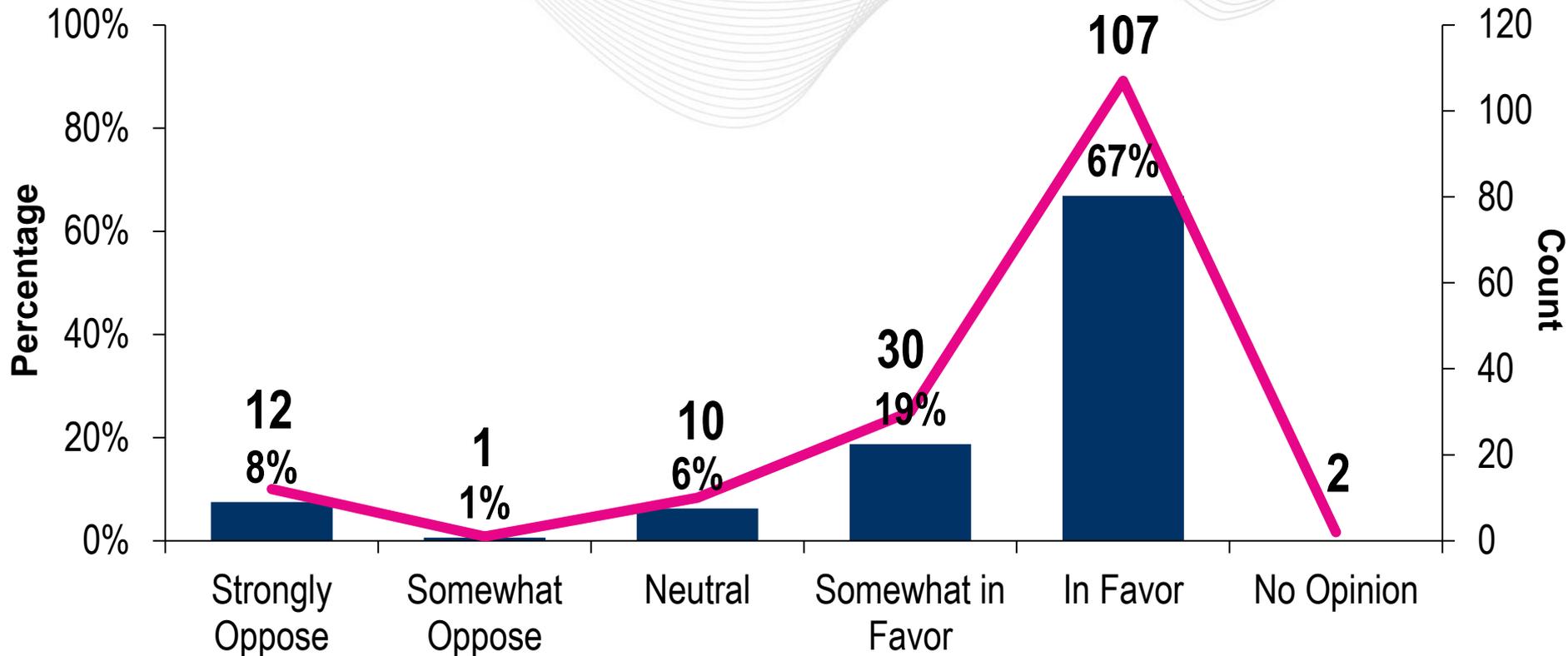
As defined in TO restoration plan based on TO restoration needs

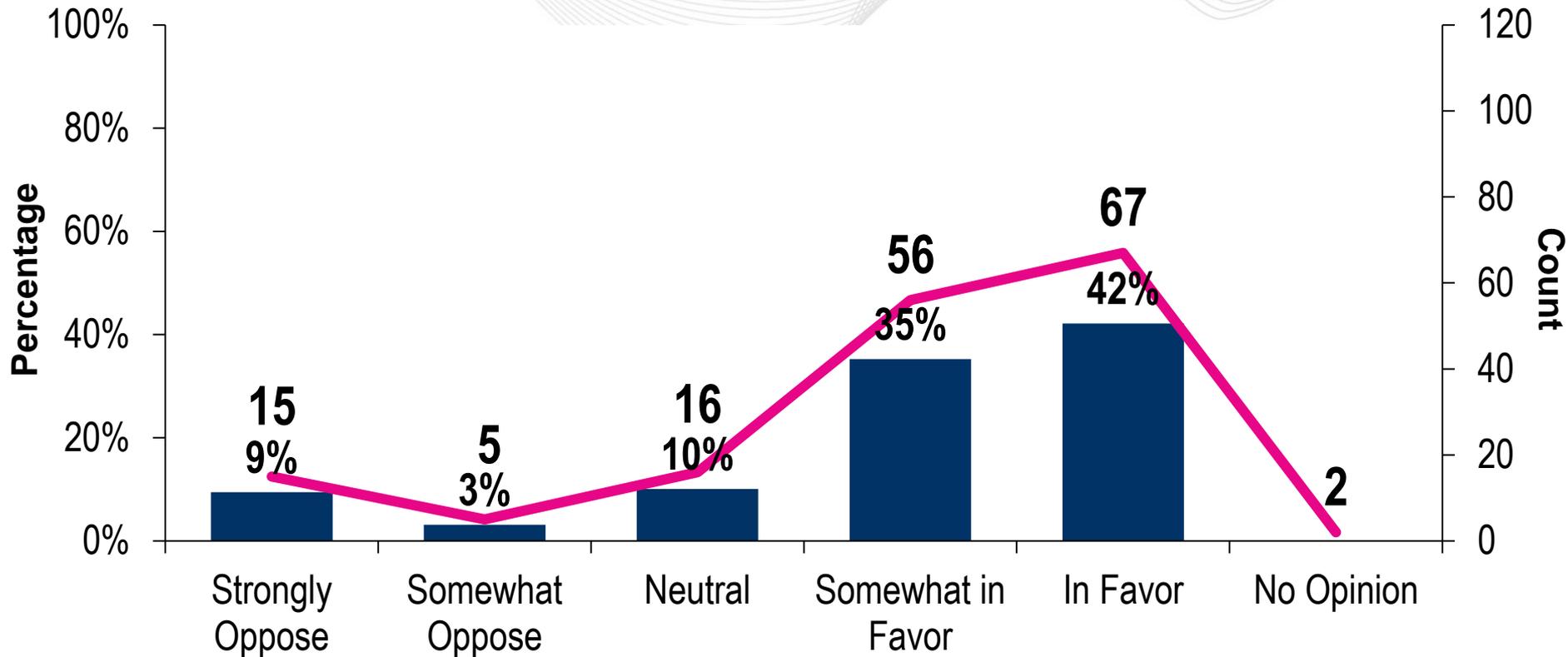


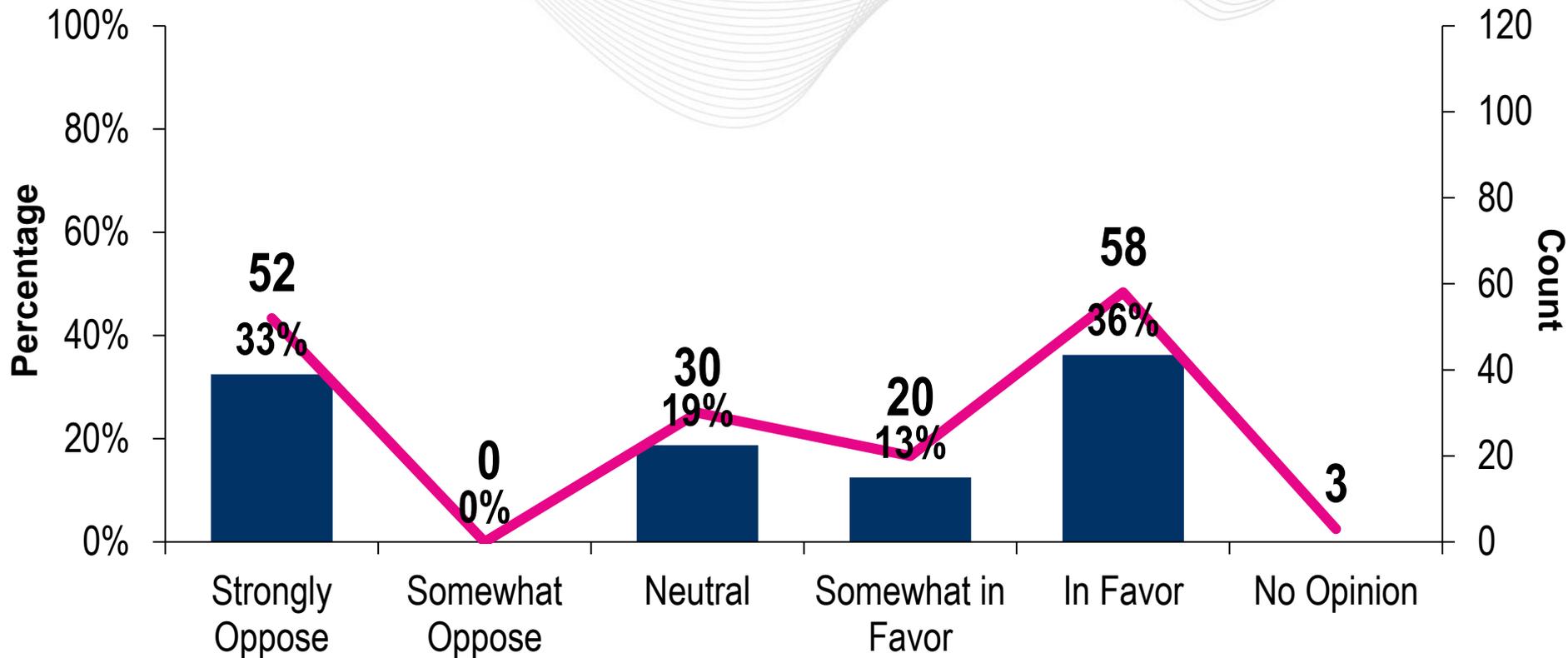
3. Please indicate your level of support for the following natural gas black start options to be considered fuel assured.

Weighted Average (Out of 5 Ratings)

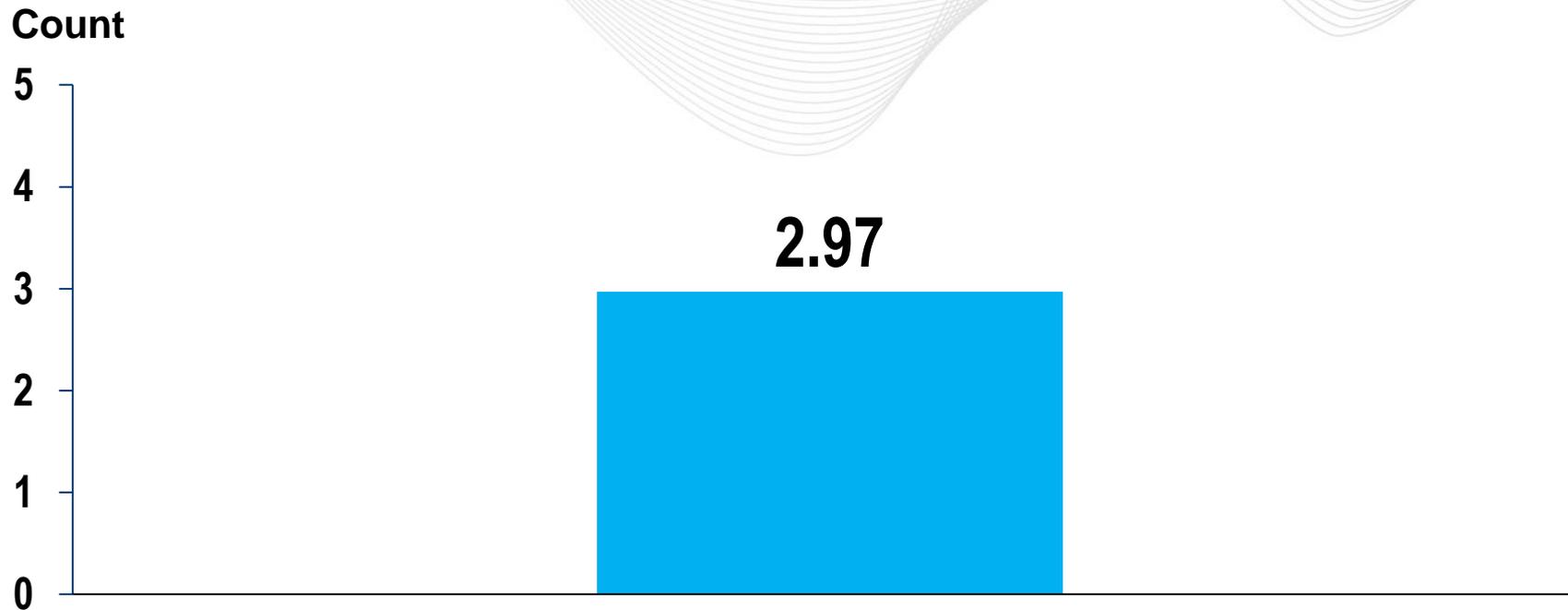






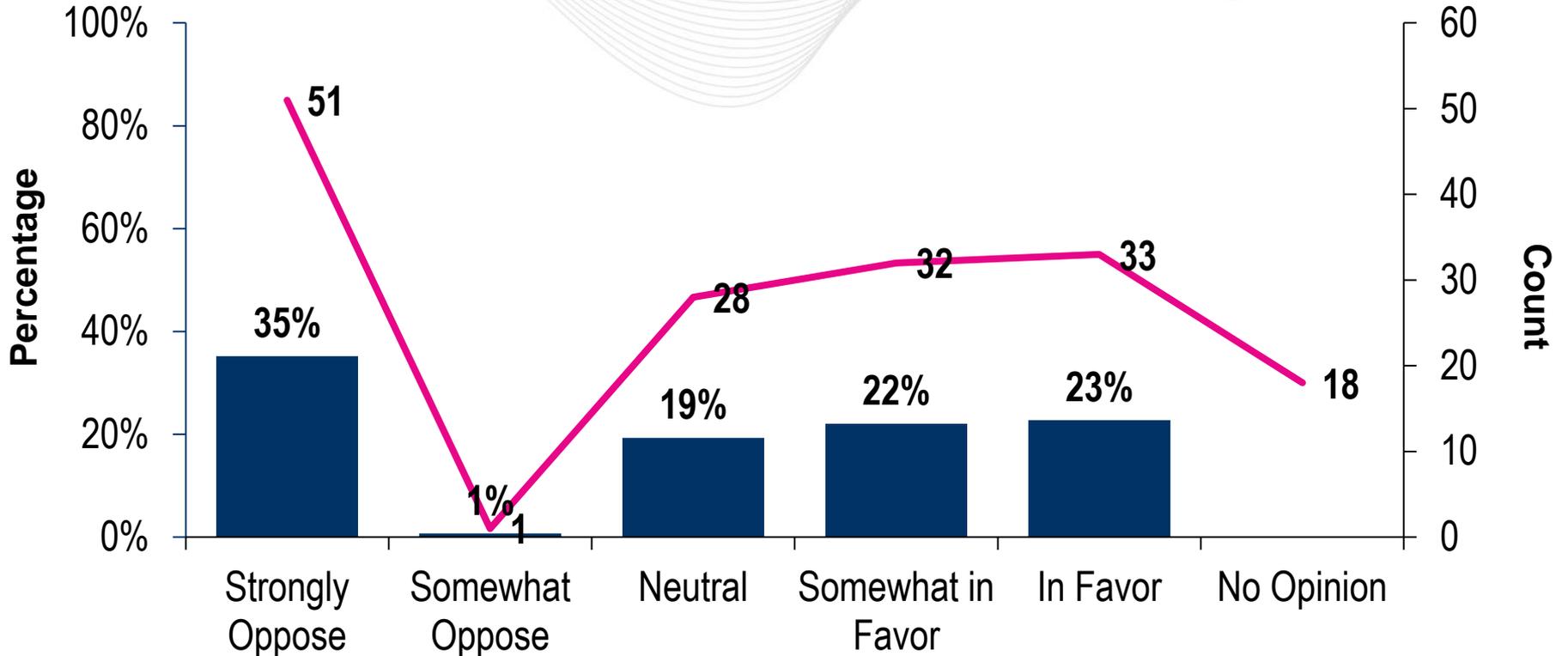


4. Please indicate your level of support for a tiered run hour requirement (eg. 10 Hours or 16 Hours) with a tiered compensation for black start resources to maintain black start resource diversity (eg. Hydro – run of river, pumped storage, intermittent resources, ESR).

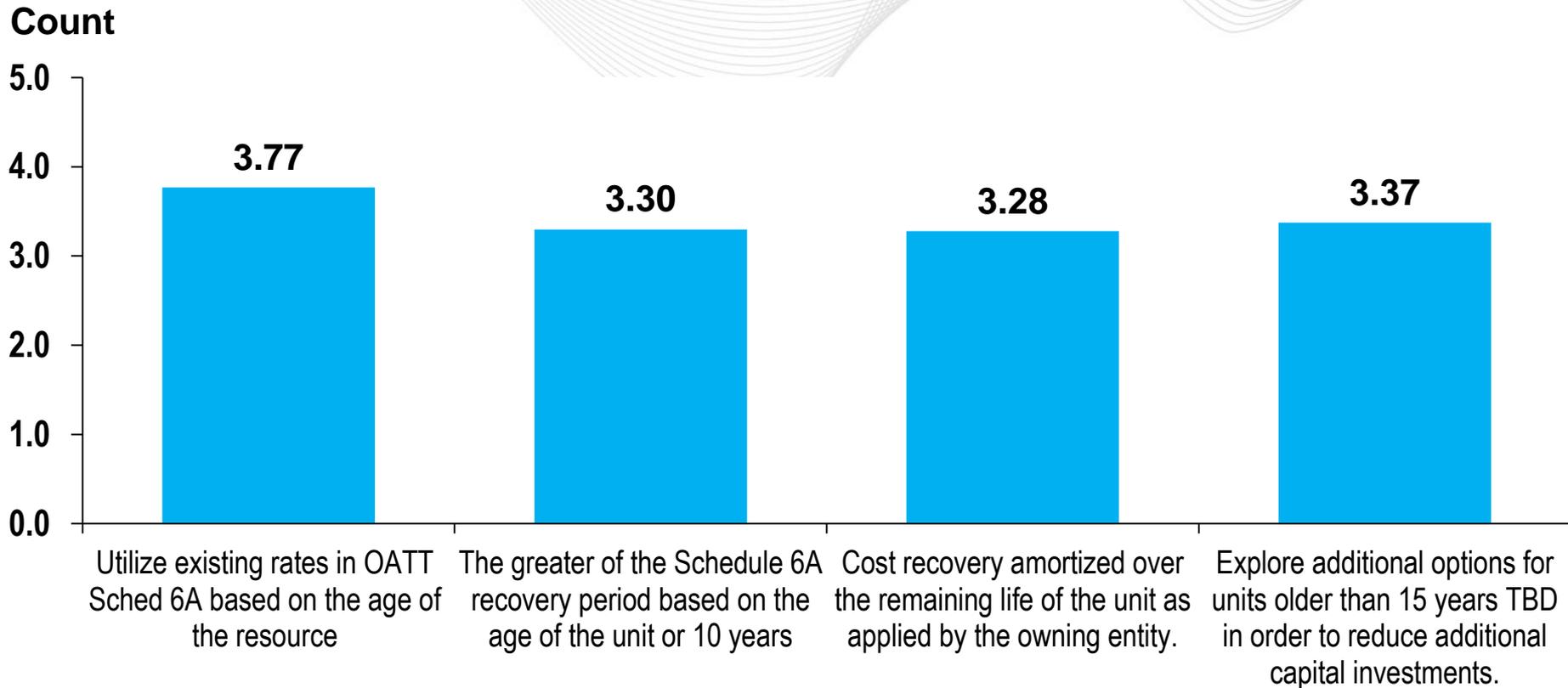


A tiered run hour requirement (eg. 10 Hours or 16 Hours) with a tiered compensation for black start resources

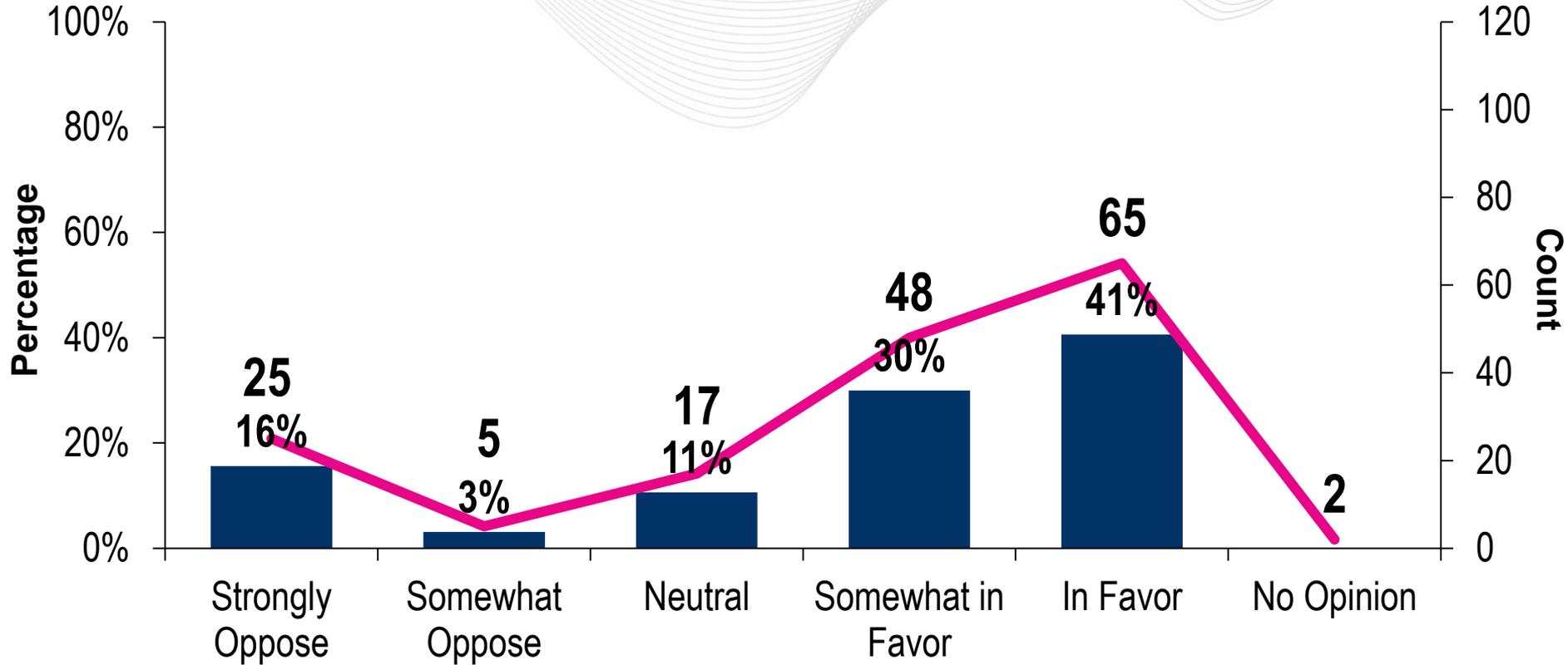
A tiered run hour requirement (eg. 10 Hours or 16 Hours) with a tiered compensation for black start resources



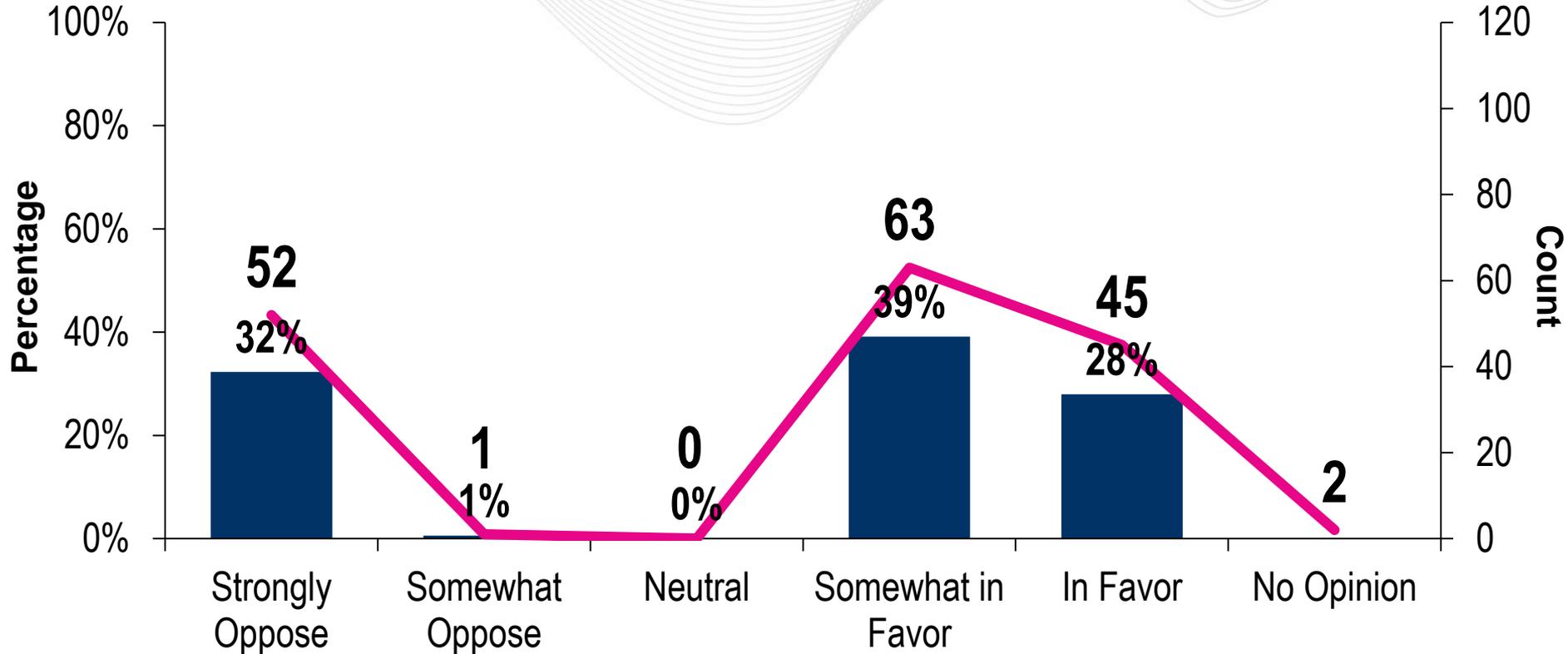
5. If a Black Start resource makes capital improvements in order to become fuel assured, please indicate your level of support for each of the following options for capital recovery period.



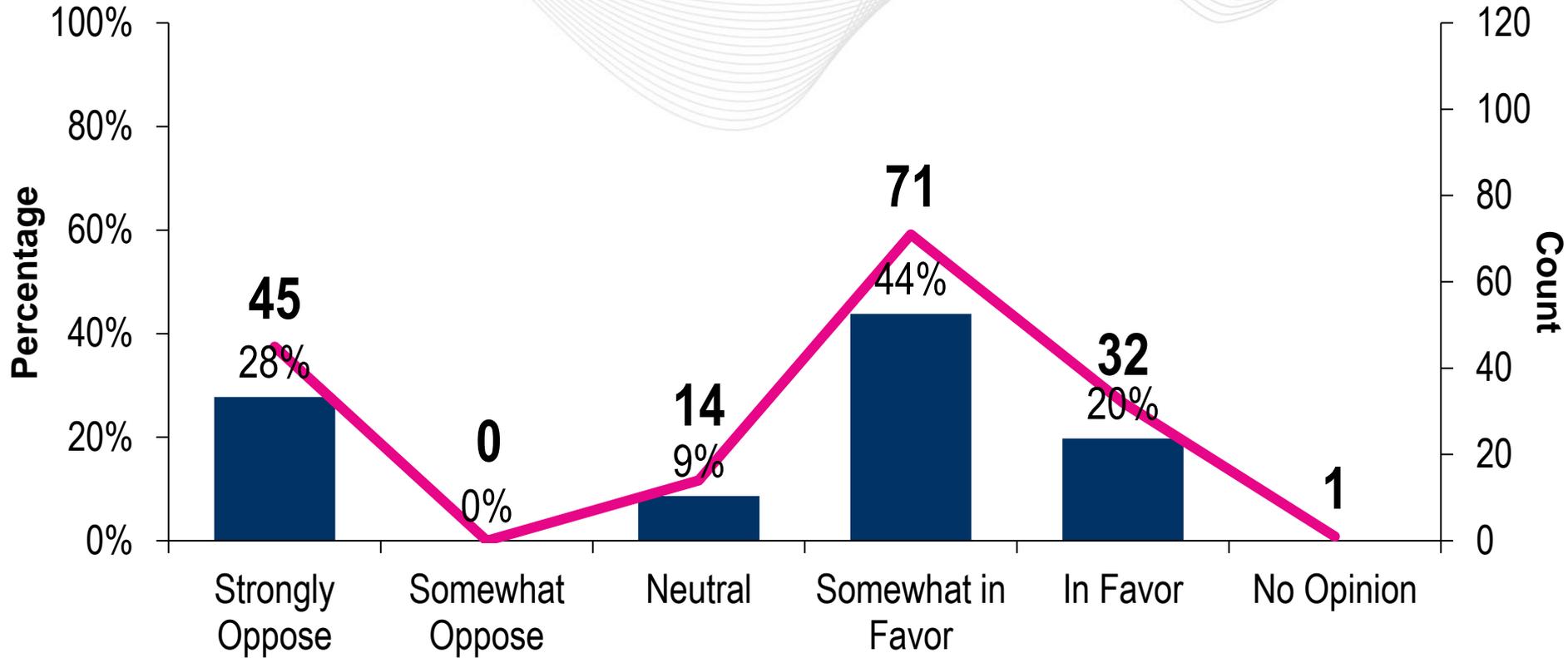
Utilize existing rates in OATT Sched 6A based on the age of the resource



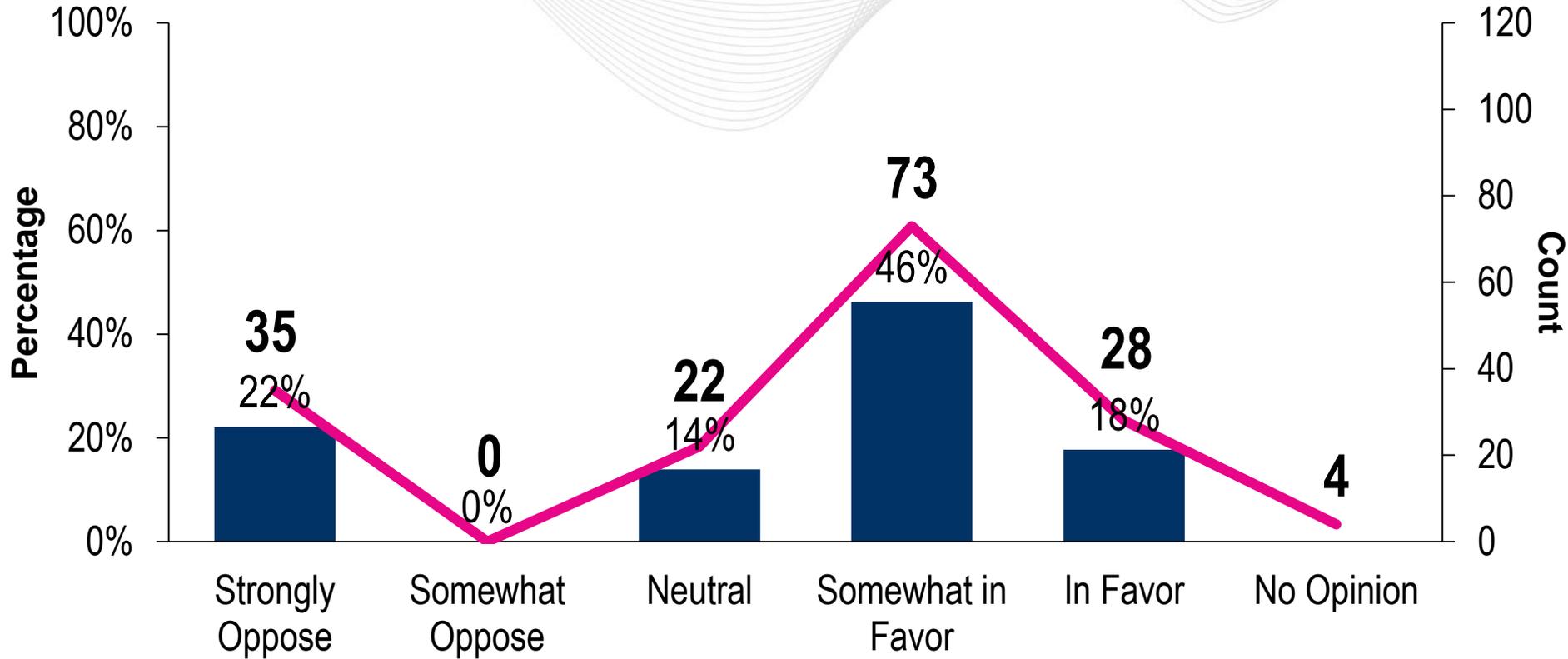
The greater of the Schedule 6A recovery period based on the age of the unit or 10 years



Cost recovery amortized over the remaining life of the unit as applied by the owning entity.

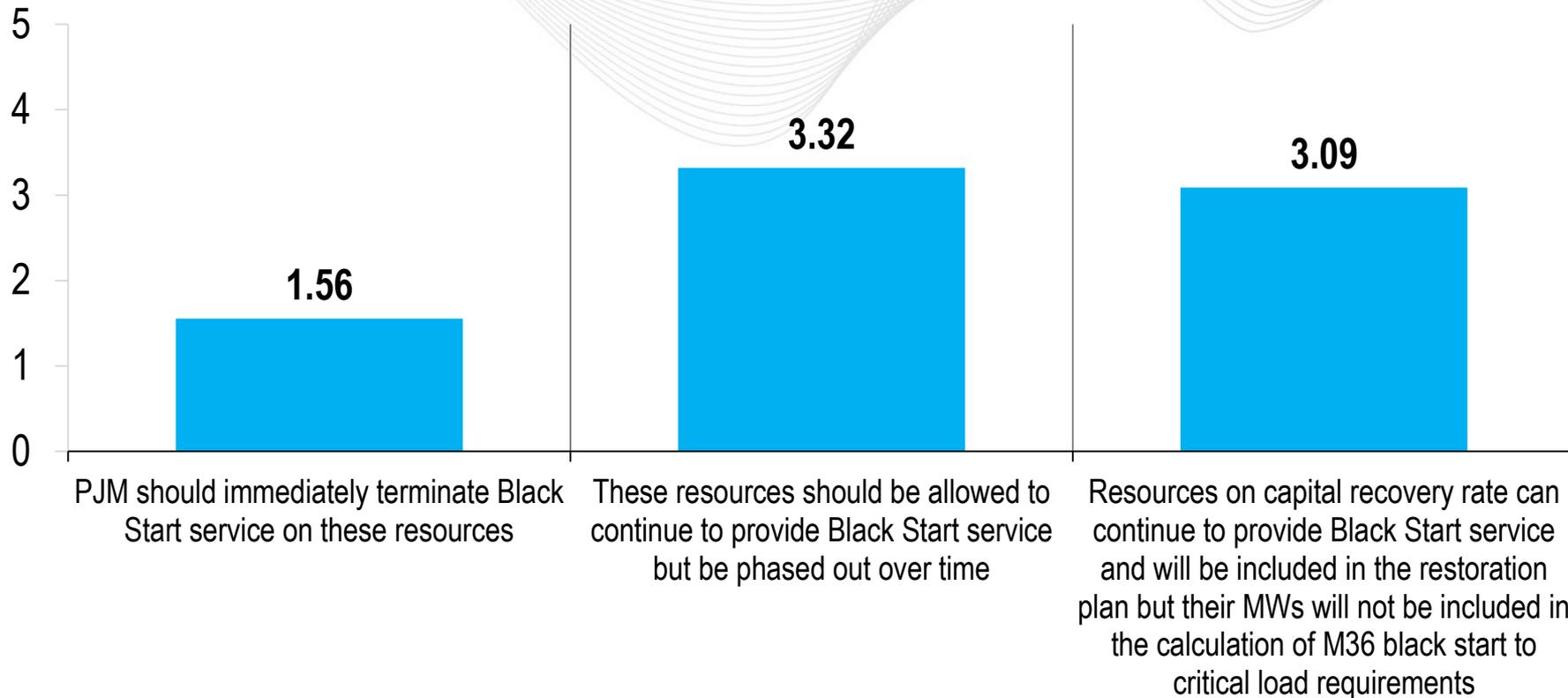


Explore additional options for units older than 15 years TBD in order to reduce additional capital investments.

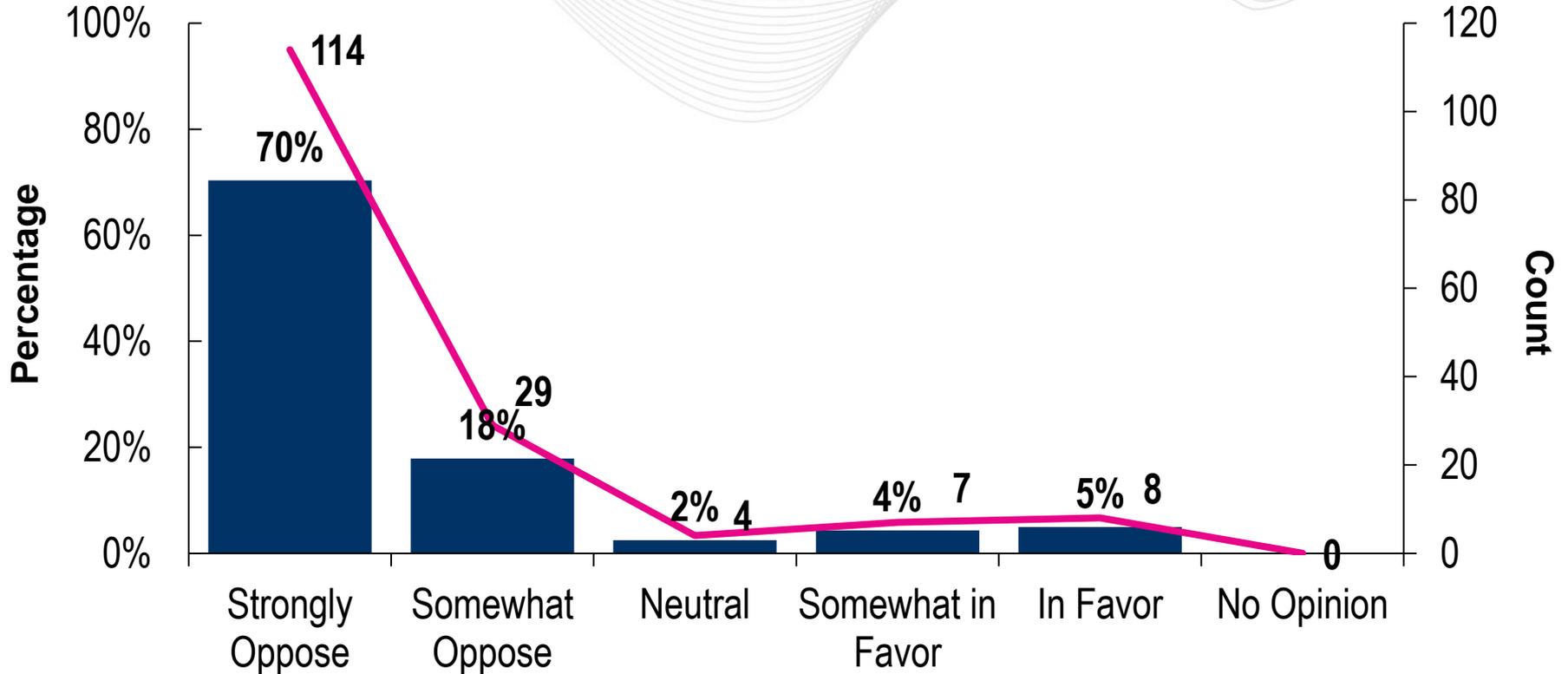


6. Please indicate your level of support for the options listed below for addressing Black Start resources that are not fuel assured.

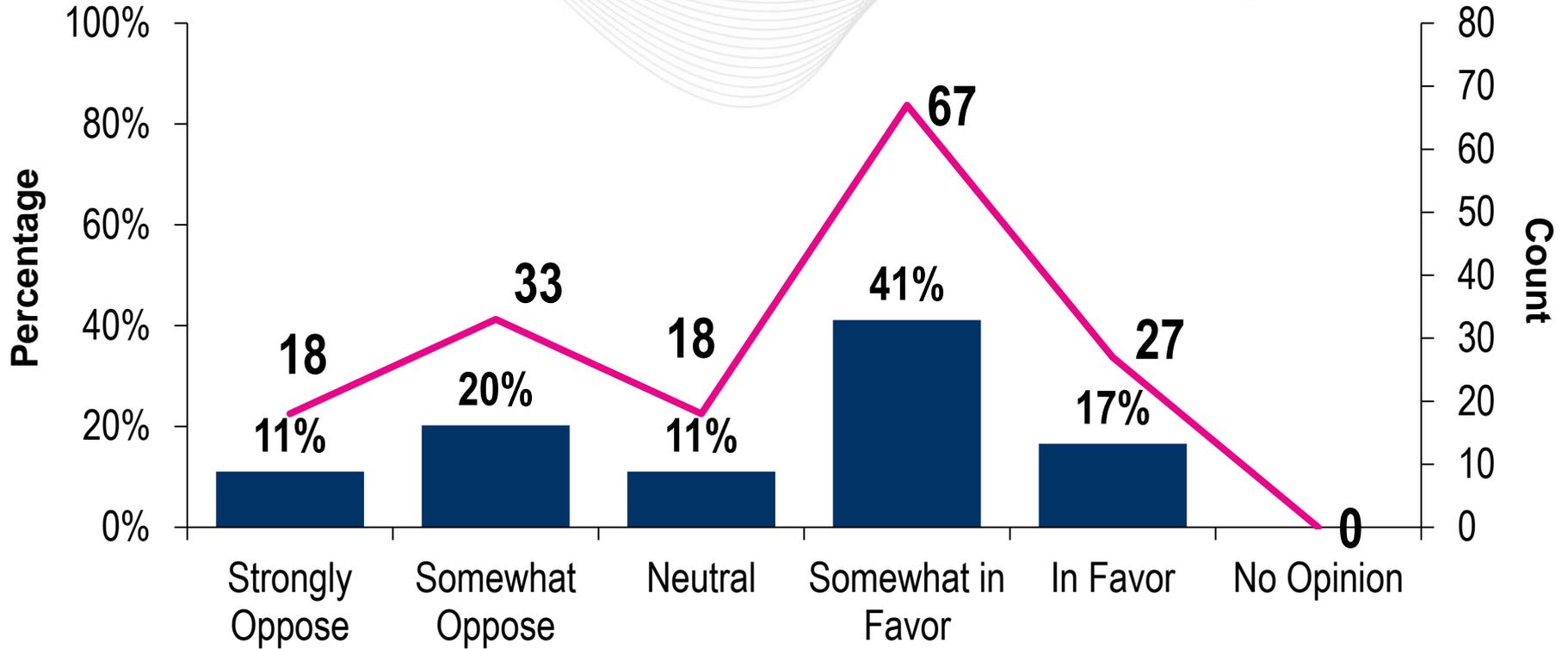
Weighted Average (Out of 5 Ratings)



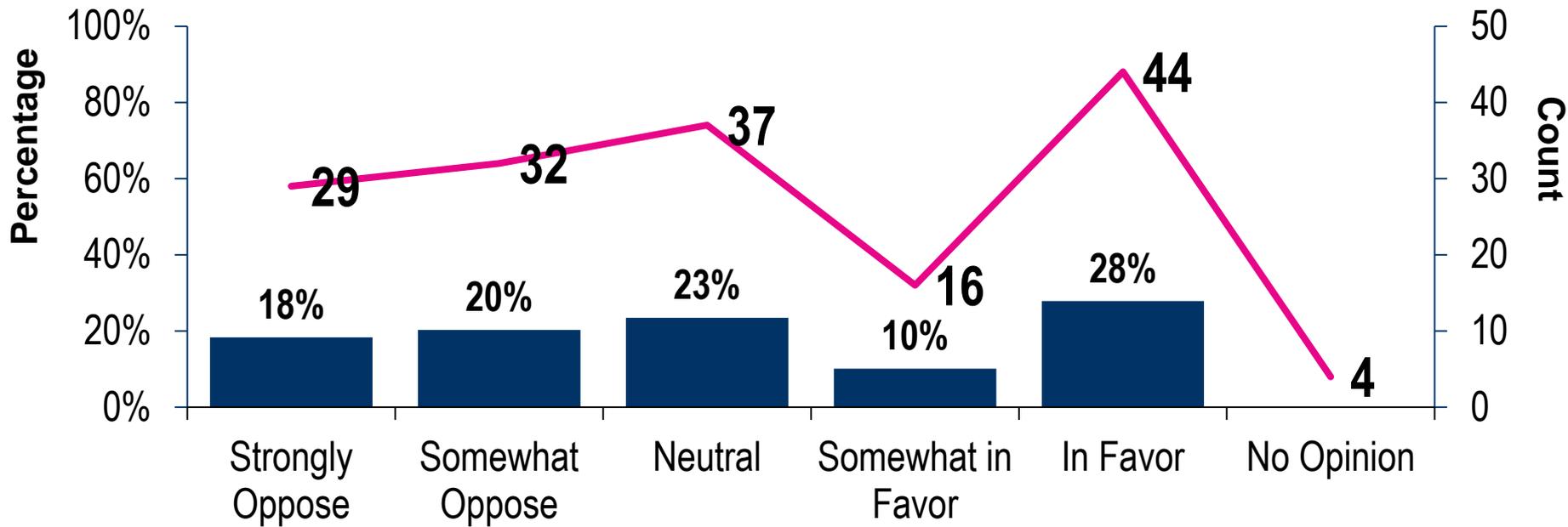
PJM should immediately terminate Black Start service on these resources



These resources should be allowed to continue to provide Black Start service but be phased out over time



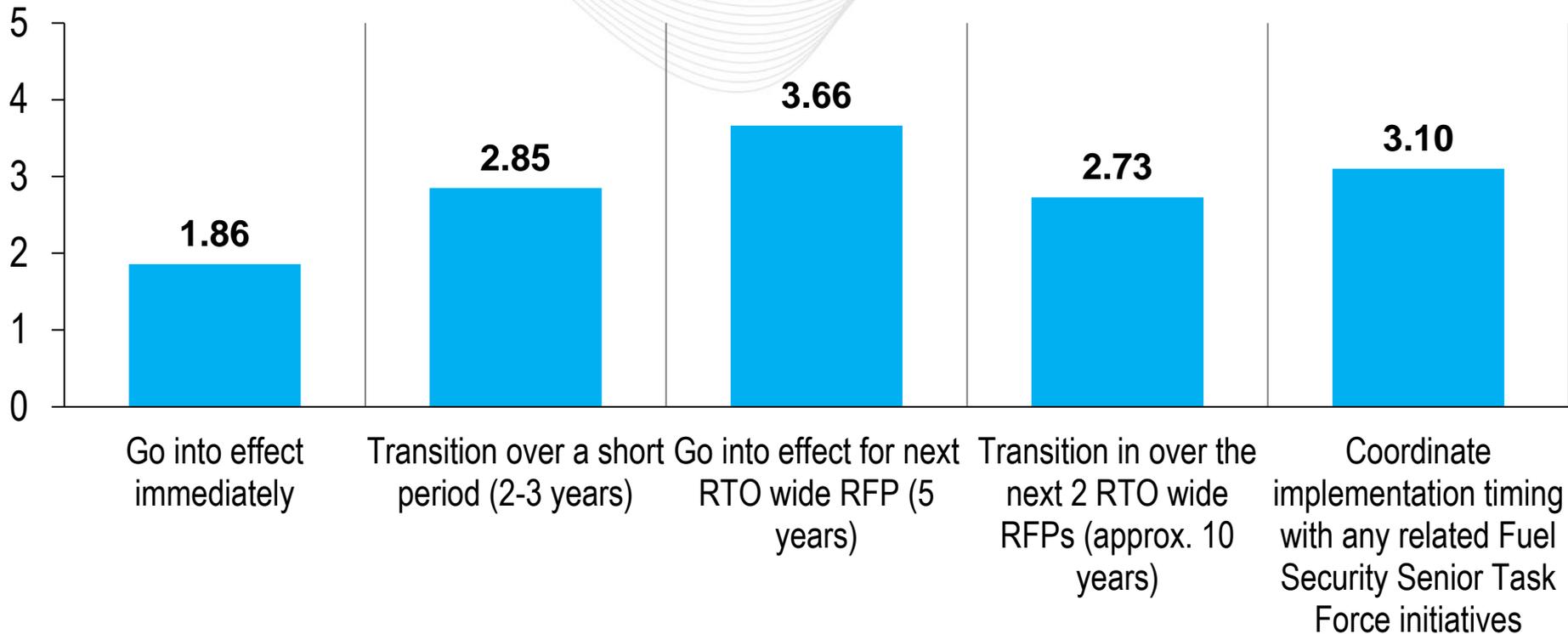
Resources on capital recovery rate can continue to provide Black Start service and will be included in the restoration plan but their MWs will not be included in the calculation of M36 black start to critical load requirements

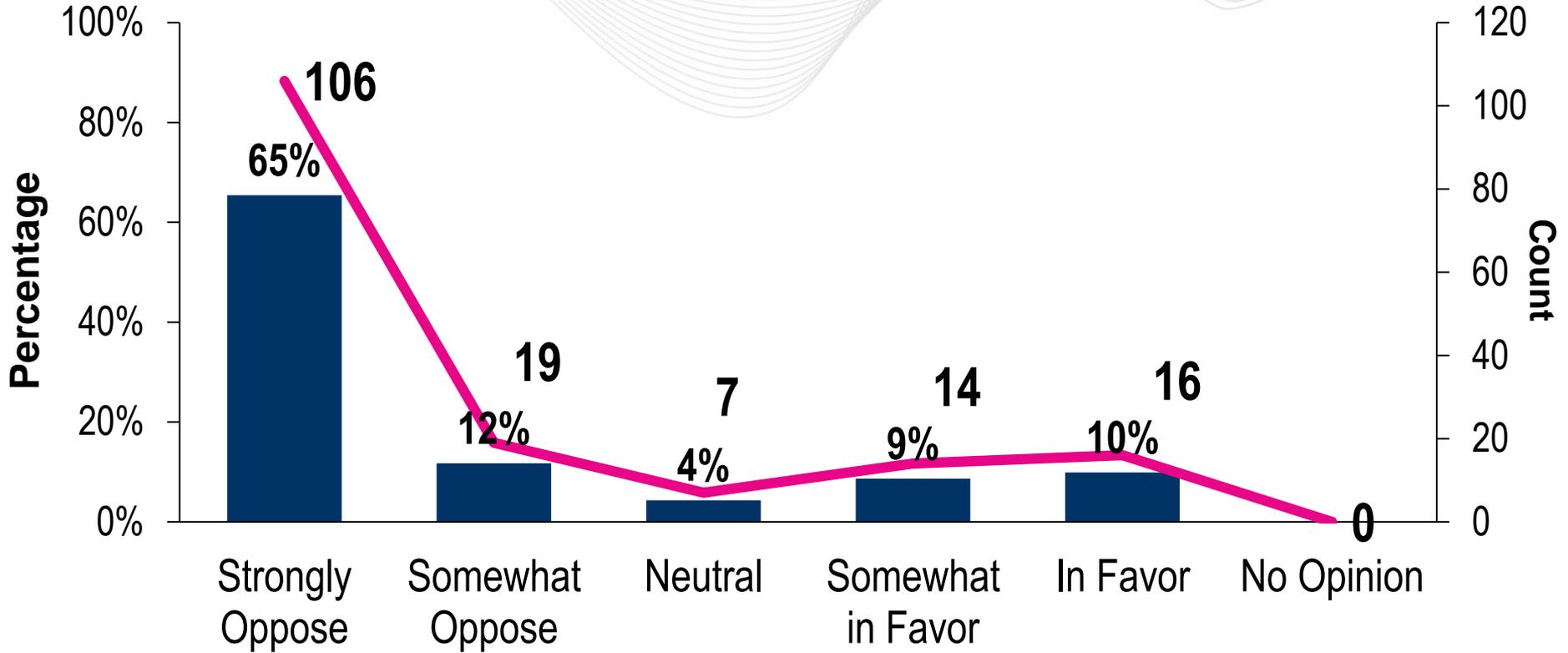


7. Please indicate your level of support for the options below regarding the transition to Black Start Fuel Assurance requirements.

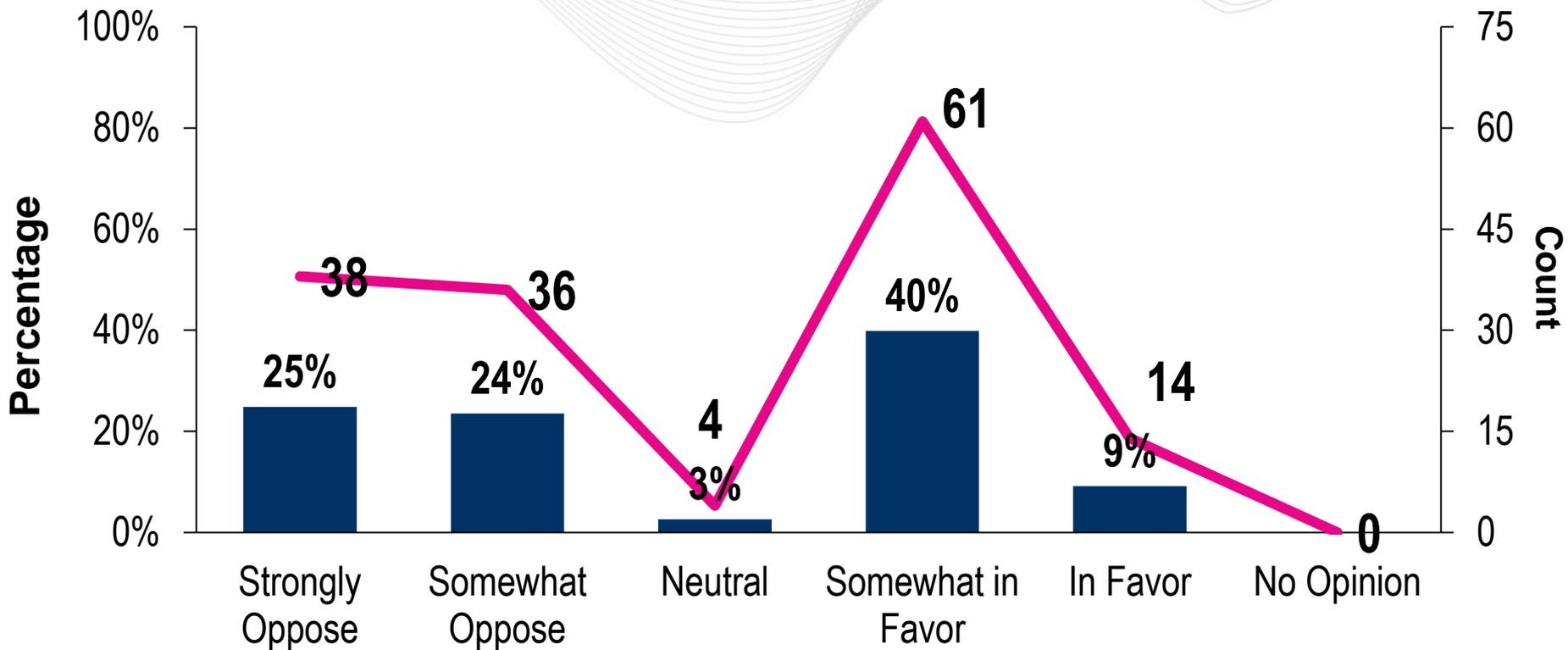
Weighted Average (Out of 5 Ratings)

Count

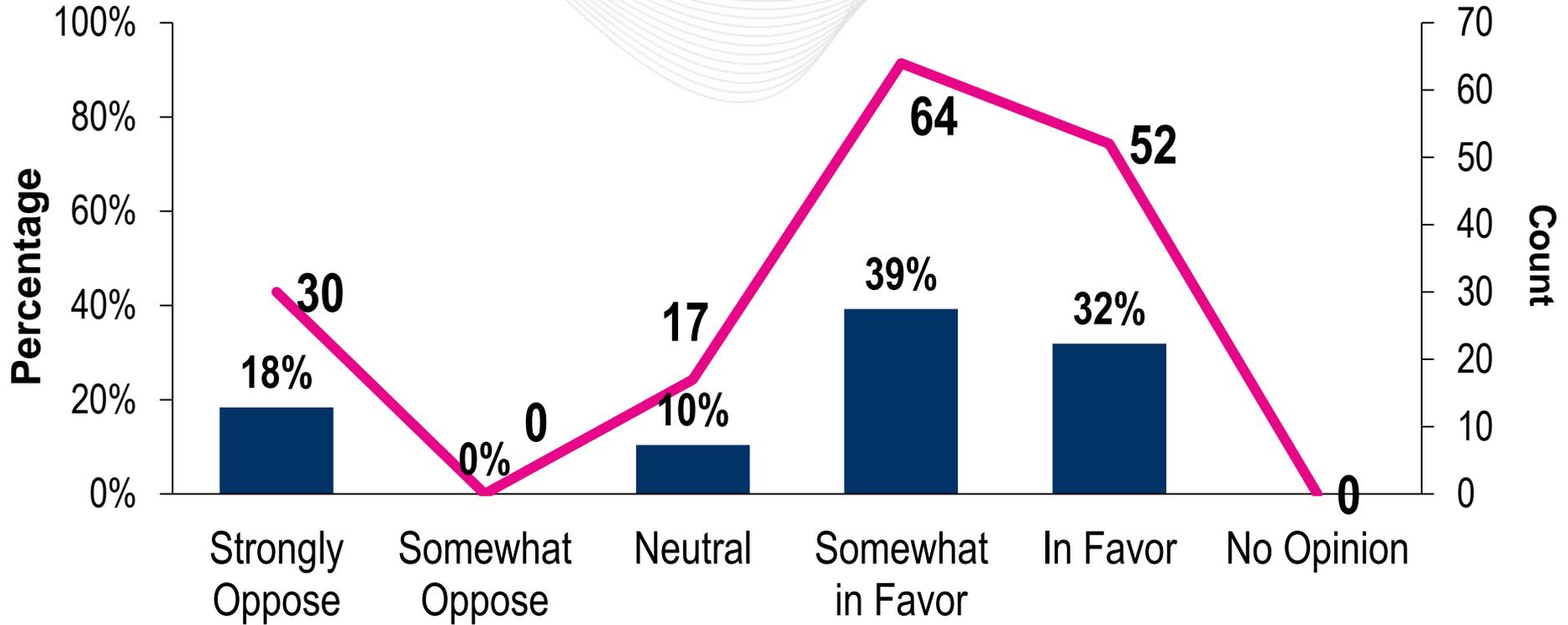




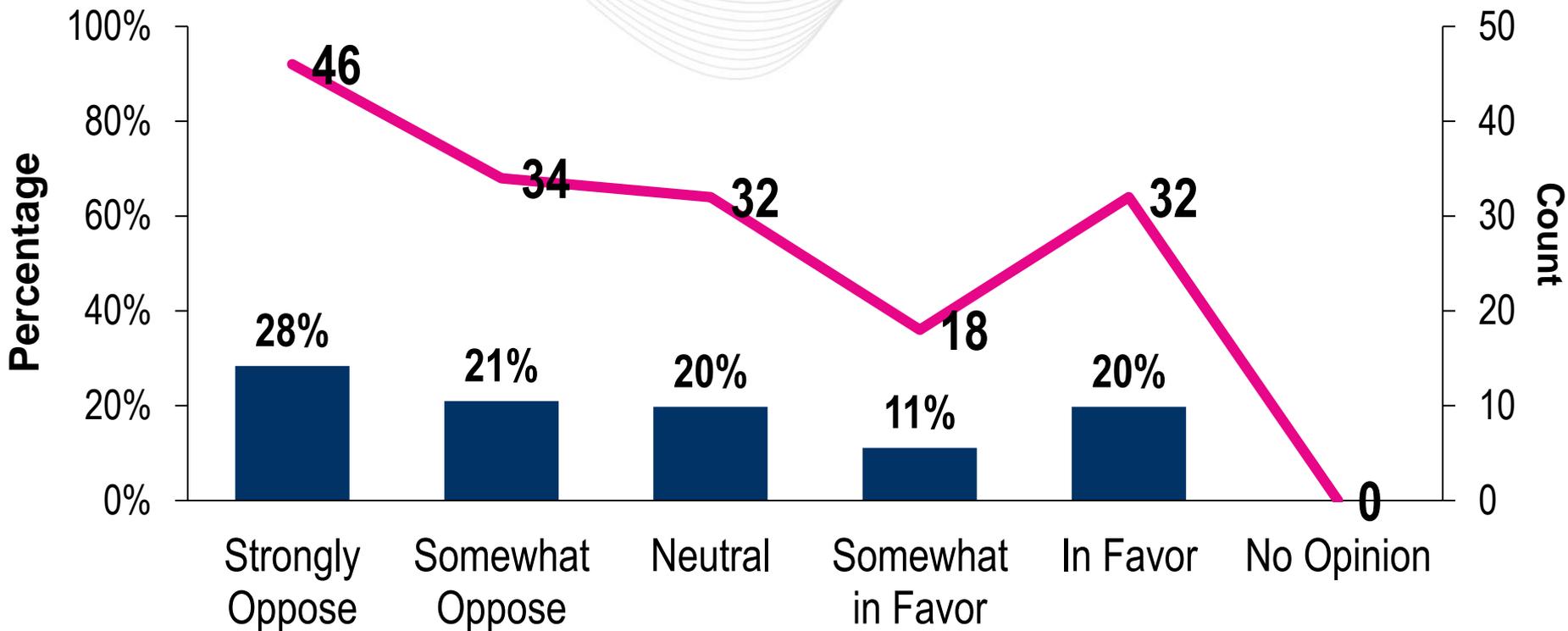
Transition over a short period (2-3 years)



Go into effect for next RTO wide RFP (5 years)



Transition in over the next 2 RTO wide RFPs (approx. 10 years)



Coordinate implementation timing with any related Fuel Security Senior Task Force initiatives

