

Fiscal Year 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025

Accelerators (42 weeks of beam / year)

Tevatron Collider	Operation																
Available 8 GeV Beam Power	17 kW	17 kW	17 kW	17 kW	17 kW	17 kW	17 kW	17 kW	17 kW	100 kW	200 kW	200kW	200kW	200kW	200kW	200kW	200kW
Main Injector (120 GeV)	220 kW	300 kW	300 kW	400 kW	400 kW	760 kW	760 kW	760 kW	760 kW	~1 MW	2.3 MW	2.3 MW	2.3 MW	2.3 MW	2.3 MW	2.3 MW	2.3 MW
Protons on Target / year	2.3 e 20	3.1 e 20 / yr	4.2 e20 / yr	4.2 e20 / yr	7.9 e 20 / yr	7.9 e 20 / yr	7.9 e 20 / yr	7.9 e 20 / yr	7.9 e 20 / yr	1 e 21	1 e 21	1 e 21	1 e 21	1 e 21	1 e 21	1 e 21	1 e 21
Project X	R&D																
Shutdown for NuMI and Project X						~10 months				6-12 months							

Neutrino Program

1. Ongoing / Construction Phase

MiniBooNE	Operation																		
SciBooNE	Operation																		
MINOS	Operation																		
MINERvA	Construction			Commiss.		Operation													
NOvA	CD3		Construction			Commiss.		Operation											

2. Toward A Large Detector (>1,000km)

(LAr100kT / WC300kT)																		
LAr R&D / Staged Experiments	R&D																	
ArgoNeUT	Operation			R&D														
microBooNE	R&D			Construction		Operation												
MINOS II (LAr 5kT)	R&D			Construction		Operation												
LAr 100kT	R&D			Construction		Operation												
WC Experiments (300kT)																		
UNO PMT Production	PMT Production																	
UNO Excavation + Inst+ Operation	Excavation																	
Mega ton * years	Installation																	
	Operation																	
	0.45 0.9 1.35 1.8 2.25																	
DUSEL PMT production	PMT Production																	
Module 1 Excavation + Inst + Operation	Excavation																	
Module 2 Excavation + Inst + Operation	Excavation																	
Module 3 Excavation + Inst + Operation	Excavation																	
Mega ton * years	Installation																	
	Operation																	
	0.1 0.2 0.5 0.7 1 1.3 1.6 1.9 2.2 2.5																	
SuperK: Mega ton * years	0.16	0.18	0.2	0.23	0.25	0.27	0.29	0.32	0.34	0.36	0.38	0.41	0.43	0.45	0.47	0.5	0.52	0.54

Fiscal Year 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025

Tevatron Fixed Target Program

NuSOng	R&D																
Charm	Construction																
	Commissior Operation																

MI/Tev-Stretcher Kaon Program

SCRf Beamline & separated K+	R&D																
Charged Kaon	Construction																
Ch'ged K+ driving KL/KS interferometry exp	Commissior Operation																

Booster/Project X Kaon Program

8 GeV Slow-Spill Beam	R&D																
Neutral Kaon	Construction																
Charged Kaon	Commissior Operation																
	Upgrade																
	Operation																

Muon Program

Debuncher / Accumulator (1 MHz 8 GeV)	R&D																
Debuncher / Accumulator (fast pulse 80 Hz)	R&D																
Strecher ring (1 MHz 8 GeV)	Construction																
	Commissior Operation																
mu to e Conversion	R&D																
g-2	Construction																
	Commissior Operation																

Antiproton Program

Debuncher/ Accumulator	Operation																
Antiproton-proton Annihilation Experiment	R&D																
Antihydrogen in Flight	Construction																
Stopping Antiproton Facility & Experiments	R&D																
Antimatter Gravity Experiment	Construction																
Experiment Ring and Experiments	Commissior Operation																

FNAL Yearly Antiprotons 1.E+15 1.E+15 1.E+15 1.E+14 2.E+14 2.E+14 2.E+14 2.E+14 2.E+14 5.E+13 2.E+14 1.E+14 1.E+14 2.E+14 2.E+14 2.E+14 1.E+15 1.E+15

Proposed GSI Yearly Antiprotons 1.E+15 1.E+15 1.E+15 1.E+14 2.E+14 2.E+14 2.E+14 2.E+14 2.E+14 5.E+13 1.E+14 1.E+14 2.E+14 2.E+14 2.E+14 2.E+14 2.E+14 1.E+15 1.E+15