DOEGrids Analysis
Last Updated 9-February-2012

DOEGrids CA issues about 10,000 certificates per year, of which about 90% in a given year are issued to DOE-based projects, with HEP predominating at around 80% or more per year.   5-10% of these are user (personal) certificates; the remainder (and majority) are different flavors of host and service certificates. Table 1 shows detailed certificate issuance numbers for calendar years 2009-2011*.

Table 1 DOEGrids Issuance by Office/Agency

Year -->	2009				2010				2011*			
Cert type -->	User	Host	GA	All	User	Host	GA	All	User	Host	GA	All
Certs Per Program / Agency												
High Energy Physics (HEP)	785	687	6103	7575	853	569	6935	8357	356	246	2435	3037
Nuclear Physics (NP)	26	18	49	93	40	21	26	87	21	11	5	37
Other DOE	185	221	248	654	259	256	195	714	88	82	113	283
NSF (non-LHC)	184	44	254	482	171	36	291	498	58	12	101	171
other	121	118	190	429	118	84	150	352	68	47	164	279
Percentages by Program / Agency												
% HEP	60%	63%	89%	82%	59%	59%	91%	84%	60%	62%	86%	80%
%NP	2%	2%	1%	1%	3%	2%	0%	1%	4%	3%	0%	1%
% Other DOE	14%	20%	4%	7%	18%	27%	3%	7%	15%	21%	4%	7%
% NSF (non-LHC)	14%	4%	4%	5%	12%	4%	4%	5%	10%	3%	4%	4%
% Other	9%	11%	3%	5%	8%	9%	2%	4%	12%	12%	6%	7%

* 2011 – partial year

"GA" stands for "Grid Admin" – an automated issuance mechanism for host certificates, particularly for clusters or centrally-administered groups in a project.

The DOEGrids CA certificates pie chart (shown below) shows the current set of active certificates (12,756), broken out by virtual organization/project.

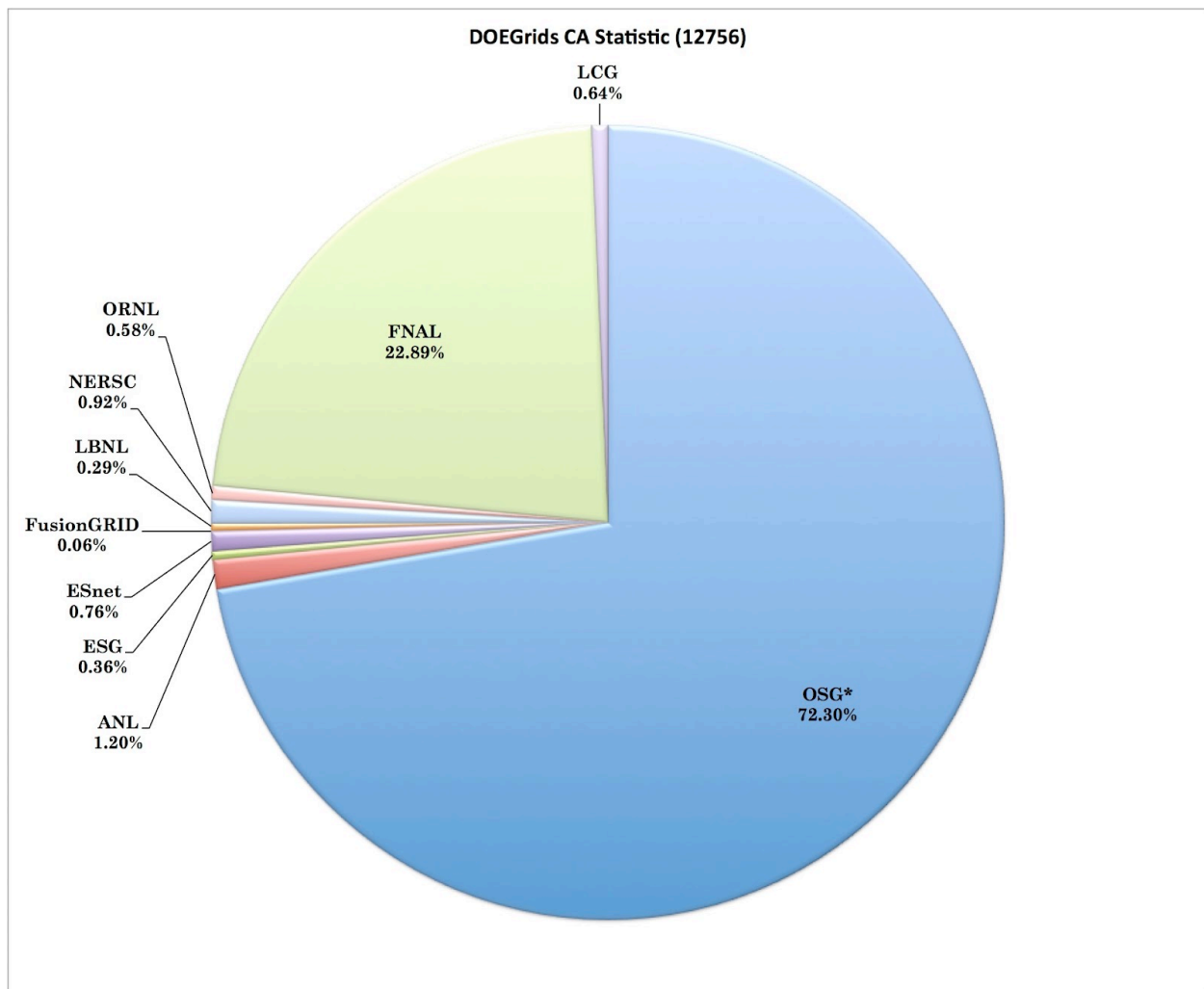NB: certificates from the ESnet-operated Fusion Grid CA are not included in these tallies.

Figure 1 DOEGrids CA certificates