GetBeam() returns a PParticle object, so I think you should use something like

my_reaction.Do(histo2,"_x = ([g+p]->GetBeam())->E()");

to project a scalar onto the x-axis.

ene is empty, because you use a second proton, but in the outgoing channel you have only one (I know I should throw some warning but this is not so easy for mixed channels)