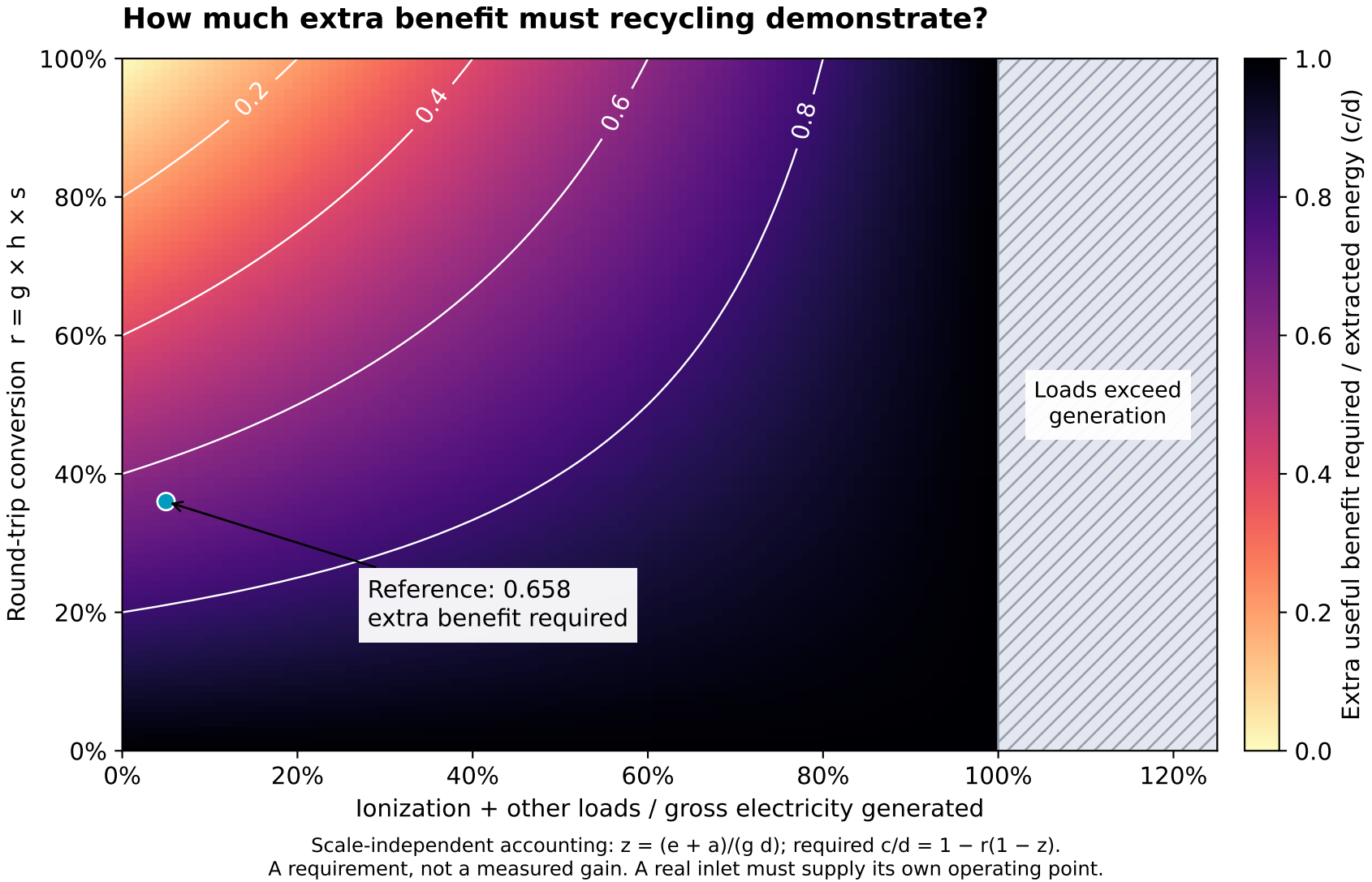

How much extra benefit must recycling demonstrate?
Round-trip conversion r = g × h × s
Ionization + other loads / gross electricity generated
Extra useful benefit required / extracted energy (c/d)
0.2
0.4
0.6
0.8
Loads exceed generation
Reference: 0.658 extra benefit required
0%
20%
40%
60%
80%
100%
120%
0.0
0.2
0.4
0.6
0.8
1.0
Scale-independent accounting: z = (e + a)/(g d); required c/d = 1 − r(1 − z).
A requirement, not a measured gain. A real inlet must supply its own operating point.