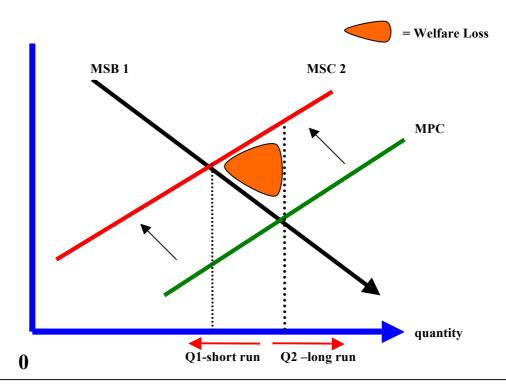
SYLLABUS REFERENCE 2.4¹: 2 things that may help your evaluation of externalities

Diagram 1: Resource Allocation applying the concept of welfare economics: A solution to Market Failure using Social Costs + Benefits; the Short Run versus the Long Run

1

solving externalities should not result in lower levels of growth in the long run

Price /cost



Examine DIAGRAM 1 carefully

- What is the problem with securing a solution for negative externalities of production at Q1?
- Tip: Consider the various stakeholders here. Government-consumers-firms-workers
- In the long run government/regulator must try to move markets in the long run toward q2 and beyond
- In your writing then be aware of this theme: reducing pollution through regulation affects stakeholders significantly:

Cleaner environment

Short run

Lower output

Msb=msc

Stakeholder lose (e.g. profits through smaller markets, jobs, higher prices

• and reducing production in the short run must not be a long term objective

Long run

cleaner technology /cleaner output higher output

msb =msc

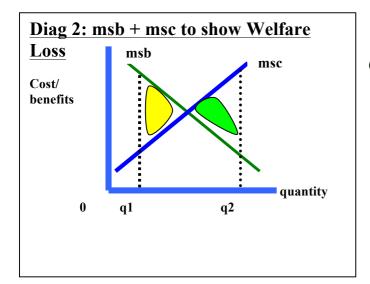
prices may be higher but economies of scale (webnote 209) may be significant here

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¹ See Stanlake page 219 for more on Welfare gain and loss



Welfare loss



Welfare loss =

a non optimal allocation of resources where MsB is not equal to MsC. This results in over/under consumption /production.

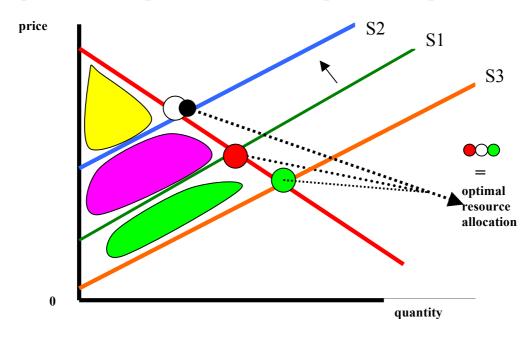


What is welfare loss?

- Where msb is not equal to msc a welfare loss occurs either because of over or under production
- ❖ Where the loss occurs because of negative externalities of production then cleaner technology can help to increase output in the long run where msb = msc at higher output levels

How do we know that reducing output is not desirable in the long run? We can use consumer and producer surplus to show this:

Diag 3: supply + demand to show consumer and producer surplus(society surplus) = consumer+producer surplus)



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