





PESLES*









*Payment for Ecosystem Services - Lessons

PES definitions

- "incentives offered to farmers or landowners in exchange for managing their land to provide some sort of ecological service".
- "a transparent system for the additional provision of environmental services through conditional payments to voluntary providers."

Tacconi, L. (2012). Redefining payments for environmental services. Ecological Economics, 73(1): 29-36



RESAS funded research

 Lunan Diffuse Pollution Monitored catchment has been set up to assess the effects of compliance with diffuse pollution regulations and identify cost:effective methods of pollution mitigation





Field flooded by Milldens lade

Swamping of Milldens weir

Flooding of boathouse at Rescobie Loch



PES ideas for the Lunan Water

• Fishing for farmers





Less erosion
less dredging

Water for all







Rescobie Loch Development Association (fishing club) Annual agreement exists to lease fishing from riparian owners

Fishing for farmers

Could riparian owners deliver more "ecosystem services", such as participation in sediment control methods in exchange for this agreement?

Condition in lease? Extra payment for sediment control? Fishing permits? Share of takings?



Public and private local demand for reduction in flood risk and increased water use at low flows; need to conserve wetland ecology.



Water for all

Water licensing for irrigation is done by SEPA, but WFD status downgraded due to low flows based on weak information on actual useage. Community interest company (CIC) raises local finance for licensing, installation and management of upgrade to hydraulic control systems at current "pinch points". Upgrade could be programmable tilting weirs, low head hydro, thermal energy recovery (see River Tay)

Flexible management regime designed and implemented by consultant /energy company recruited by CIC with local participation

current flow barriers at Guthrie/Milldens are not historic, so modification/removal may not be eligible for Water Environment Fund





Economic (eg Natural Capital Accounting) assessment of benefits/costs; Appraisal of implementation process

ECAF project promotes uptake of AECS sediment mitigation measures

Less erosion less dredging

AECS grant applications for sediment mitigation

SEPA licensing of dredging plan linked to uptake of erosion control measures promoted by SRUC advicers are local sediment and water management consultants Improved, ecologically acceptable approach to dredging and sediment management across catchment



Use cost-effectiveness analysis tools developed by JHI to target measures; impact assessment as part of RD 1.2.1 (fine sediment project)

NFUS supported plan for dredging