

Pumps and Troughs- what are the alternatives to waterings?



Welcome

Macterry Farm followed by RBL, Fyvie
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Introduction



- Intro- George Chalmers
- Different Pumps and systems- Gavin Elrick- Senior Drainage Consultant, SAC
- Updates on Priority catchments- Pete Wright , SEPA
- Farm and Water Scotland Stand- Kevin Rudland, SAC Consultant.
- AECS- Alternative watering funding options- George Chalmers, SAC Turriff

Project



- The Firm of Harry Milne with support from the Scottish Government has replaced 4 open waterings with 3 fields now having troughs fed by a solar pump and one field now using a pasture pump.

Before, During and After

- Waterings on site were not too bad- not large numbers of stock but erosion an issue.



Initial visit



Initial visit



Initial visit



Initial visit



Initial visit



Initial visit



Works- hardstandings



Works- hardstandings



FARM
ADVISORY
SERVICE



Works



Works



Works



Works



Works



Works



FARM
ADVISORY
SERVICE



Pasture pump



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Well ring



Solar pump



Solar pump



Solar pump



After



- Systems will be evaluated over summer
- Previous waterings will be built up and brought back up to field level.

AECS- alternative watering funding opportunities



- **Agri-Environment Climate Scheme**
- Competitive application process- next window closes 13/4/18- wide range of management and capital options including alternative watering.
- Aims to protect water quality and biodiversity by providing an alternative source of drinking water to livestock that currently have direct access to watercourses or provide water to stock providing conservation benefits.

AECS alternative watering eligibility



- Area to benefit is to be managed under a management option
- The land is within a diffuse pollution priority area where livestock currently have direct access to a watercourse or standing water for drinking water purposes.

AECS- alternative watering funded options



- “ Alternative watering options which rely on abstracting water from a watercourse often involve the creation of an abstraction point at the watercourse, a means of abstracting or pumping the water including the associated pipework and a drinking trough”.

Funded Items



Standard Cost

- Abstraction point (as per guidance) **£476**
- Solar powered pump systems- range from **£2000-£3100** depending on number of troughs fed plus funding of **£150** for additional mast and base for panel mounting.
- Water powered pump **-£1350**

Funded Items



- Water transfer (pipework), fittings and trough connection- **£7.77/m**
- Water meter for mains supply-**£150**
- Stock-powered pump with integral drinking bowl and mounting plinth- **£450**

Funded Items



Actual cost (needs 3 quotes)

- Electrical powered pump
- Water trough

Hard standings



- Standard Cost
- Gateways, and small areas of land around gateways and troughs, which are at high risk of becoming significantly poached or eroded and that may pose a pollution risk to nearby watercourses are eligible.
- Minimum of 200mm (8 inch) deep, requires a permeable geotextile membrane filled with a well compacted layer of aggregate
- **£12.50 per m²**

Final Thoughts

- Final questions?
- Feedback forms!



Thank You

