



# Delivering sustainable energy in agriculture.

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# Introduction

- Review of TAMS II Schemes
  - Application procedures
  - Energy Efficient / renewable Energy Investments
- Brief look at Horticultural Schemes
  - 2 schemes available
- Other Renewable Energy Schemes





# About TAMS II Schemes

- 4 of the TAMS II schemes have elements relating to energy efficiency / renewable energy.
- Schemes cover four elements in relation to sustainable energy:
  - Reduction in energy usage; Preservation of energy (heat),
  - Recovery of energy (heat); Renewable energy production.
- Only looking at TAMS elements
- Scheme aims include: Facilitating energy efficient measures to improve competitiveness and contribute to the improvement of agricultural incomes.





# About TAMS II Schemes

- 4 relevant schemes under TAMS II
  - Dairy Equipment Scheme (DES)
  - Pig and Poultry Investment Scheme (PPIS)
  - Young Farmers Capital Investment Scheme (YFCIS)
  - Organic Capital Investment Scheme (OCIS)
- Grant rate of 40% of investment (60% for young farmers)
- Investment Ceiling of €80,000 (max grant of €32,000 at 40%), or €160,000 for partnerships (max grant of €64,000 at 40%).





# About TAMS II Schemes

- Applications
  - must be online at [www.AgFood.ie](http://www.AgFood.ie), (also used for BPS and other DAFM services)
  - Submitted by applicant or an agent
- Register online:



## Register for Online Services

You must first register to use the agfood Online Services. If you have not already registered please press the Register button:

[Register](#)

## Useful Links

- [Agfood.ie Help Videos](#)
- [Online Services Information](#)
- [Information on Agriculture Agents](#)
- [Download Forms](#)
- [Contact Details](#)
- [Browser Information](#)
- [Privacy Statement](#)
- [Terms & Conditions](#)
- [Software Links](#)

## Online Services Login

### Step 1 - Enter your Username

### Step 2 - Enter the Third, Sixth and Seventh digits from your PAC

1st	2nd	3rd	4th	5th	6th	7th
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Step 3 - Enter your Password

[Logon](#) [Reset](#)

## Help

If you have forgotten your PAC, Password, or are having any difficulties logging on, you can e-mail the Department at [agfood@agriculture.gov.ie](mailto:agfood@agriculture.gov.ie) or Lo-call 0761 064424.

A new PAC will be issued by letter as soon as possible and your password will be reset. Please include your agfood Services Username in the email.

If you registered before March 2009 your *Username* will continue to be your PPSN.

[Contact HelpDesk](#)





# About TAMS II Schemes

- Individual Scheme Terms and Conditions must be met.
- Read T&C, Explanatory Notes and Specifications,
- Don't commence works or make a payment (deposit/purchase) before receiving approval,
- For structures applicants must own the site or have a lease which will have at least 5 years remaining at payment





# About TAMS II Schemes

- Once application submitted, main investments cannot be changed and the proposed cost cannot be increased. If new main investment – submit a new application.
- Once approved, only the approved main investments are eligible.
  - Sub investments (within a main investment) can be changed after approval and are eligible
- Claim what is completed





# About TAMS II Schemes

- Approved Cost = lesser of:
  - Applicant's proposed cost and
  - Department's reference cost of proposed main investment.
- Eligible Cost for Payment = lesser of:
  - Approved Cost,
  - Reference cost of completed investment,
  - Claimed Cost [Eligible receipts and own labour/machinery].
- TAMS II has €395m for RDP 2015-2020
- Relevant schemes have combined allocation of €198m.







# DES / OCIS / YFCIS Schemes

- **Milking Machine**

- Variable speed milk pumps and Variable speed vacuum pumps as part of new machine.

- **Milk Storage and Cooling**

- Bulk Milk Tanks, including Auto Washer and compressor.
- Ice Builders.

- **Water Heating**

- Water heater – can be connected to solar system, or be air source heat pump
- On demand water heater.
- Heat Transfer unit, taking heat from compressor.





# PPIS and YFCIS Schemes

- **Solar Panels** (photovoltaic and water heating)
  - Permanently attached to or located alongside buildings used for pig / poultry / egg production). The hot water or electricity shall only be used in the pig / poultry / egg production unit.
- **Heat Recovery Units and Air Source Heat Pumps**
  - The heat is to be used to heat the pig / poultry unit.
- **Biomass boilers**
  - Only proprietary bio-mass boilers shall be used. The heat is to be used to heat the pig / poultry unit.
- **Frequency controllers** for feed pumps and feed mixer motors for pig units





# PPIS and YFCIS Schemes

- **Energy Efficiency Upgrades for Pig houses**  
(farrowing, fatteners and weaners)
  - Energy efficient lighting (40 lux minimum)
  - Insulated doors (Finisher housing U-Value of less than  $0.4\text{W}/\text{m}^2/\text{°C}$ , farrowing houses and weaner accommodation U-Value of less than  $0.3\text{W}/\text{m}^2/\text{°C}$ )
  - Wall Insulation (Finisher housing U-Value of less than  $0.4\text{W}/\text{m}^2/\text{°C}$ , farrowing houses and weaner accommodation U-Value of less than  $0.3\text{W}/\text{m}^2/\text{°C}$ )
  - Roof Insulation (Finisher housing U-Value of less than  $0.3\text{W}/\text{m}^2/\text{°C}$ , farrowing houses and weaner accommodation U-Value of less than  $0.2\text{W}/\text{m}^2/\text{°C}$ )





# PPIS and YFCIS Schemes

- **Energy Efficiency Upgrades for Pig houses (cont'd)**
  - Ventilation System.
  - Electrical Heat Pads for farrowing and weaner houses.
  - Water heat Pads for farrowing and weaner houses.
  - Insulated Creep boxes – Covered, for farrowing houses.
  - Creep covers for weaner houses.
  - Indirect Heating system for weaner houses (The system shall be designed so that flue gasses from the boiler cannot enter the same air space as the pigs, regardless of level. The system shall normally use a system of radiators which are heated by hot water.)





# PPIS and YFCIS Schemes

- **Energy Efficiency Upgrades Poultry House**
  - Wall Insulation (free-range housing U-Value of less than  $0.4\text{W}/\text{m}^2/^\circ\text{C}$ , barns, broiler housing and broiler breeders the roof insulation shall have a U-Value of less than  $0.3\text{W}/\text{m}^2/^\circ\text{C}$ ).
  - Roof Insulation (free-range housing U-Value of less than  $0.3\text{W}/\text{m}^2/^\circ\text{C}$ , barns, broiler housing and broiler breeders the roof insulation shall have a U-Value of less than  $0.2\text{W}/\text{m}^2/^\circ\text{C}$ ).
  - Insulated Doors (free-range housing U-Value of less than  $0.4\text{W}/\text{m}^2/^\circ\text{C}$ , barns, broiler housing and broiler breeders the roof insulation shall have a U-Value of less than  $0.3\text{W}/\text{m}^2/^\circ\text{C}$ ).
  - Energy efficient lighting for free range layer and broiler houses (minimum 20 Lux).





# PPIS and YFCIS Schemes

- Ventilation fans and control system for free range layer and broiler houses
- Replacement concrete floor for temperature control
- Indirect heating system (The system shall be designed so that flue gasses from the boiler cannot enter the same air space as the birds, regardless of level. The system shall normally use a system of radiators which are heated by hot water heated a boiler.)





# Horticulture Schemes

- Scheme of Investment Aid for the Development of the Commercial Horticulture Sector
- Annually run scheme, subject to budget approval.
- Development of the horticulture sector, including beekeeping.
- Minimum investment of €10,000
- Upper cumulative limit, per applicant, for investments under the scheme over the period 2014-2019 is €5m.
- 40% grant-aid, (50% for young farmers).
- Competitive grant aid scheme where applications compete with each other for the available funding.





# Horticulture Schemes

- This scheme has 4 objectives; namely to: -
  - promote diversification
  - improve quality
  - improve working conditions
  - facilitate environmentally friendly practises
- Investments associated with the provision of renewable energy or improved energy efficiency generally fulfil the objective of facilitating environmentally friendly practises.







# Horticulture Schemes

- **What is covered by the Scheme:**
  - Capital investments in specialised buildings and equipment as well as emerging technologies specific to commercial horticulture / beekeeping.
- Items that have been funded in the past include:
  - Wind turbines,
  - Photovoltaic panels,
  - Biomass boilers,
  - A combined heat and power unit (done in stages over a number of years to keep within Scheme budget),
  - Thermal screens for glasshouses,
  - LED lights.





# Horticulture Schemes

- Scheme of EU Aid for Producer Organisations in the Fruit and Vegetables Sector (40% grant-aid).
- This Scheme is open to Producer Organisations recognised for the production of fruit or vegetables.
- Currently two such Producer Organisations in the Republic of Ireland.
  - One produces mushrooms
  - One produces a range of salad crops under glass.
- Minimum 5 members, all of whom are separate legal entities.
- Minimum value of marketed production (VMP) of €2.5m





# Horticulture Schemes

- Environmental actions seek primarily to deliver benefits in key areas of
  - restoring, preserving and enhancing ecosystems
  - promoting resource efficiency and
  - supporting the shift towards a low carbon and climate resilient economy, as defined in Ireland's RDP 2014-2020.
- These priorities are intended to deliver benefits in the areas of climate change, water quality and biodiversity.





# Horticulture Schemes

- Replacement of existing boilers with more efficient boilers or ones using a cleaner or renewable fuel.
- Investment in renewable energy sources
  - PV panels, wind turbines, combined heat and power units as well as geothermal systems for heating/cooling.
- Energy Efficiency Investments
  - LED lights, replacement of existing pumps and motors with ones using variable speed drives, increased use of thermal screens and/or insulation in glasshouses/mushroom tunnels/packhouses/ PO offices.





# Other Developments

- Scheme of Investment Aid for Demonstration On-farm Waste Processing Facilities
  - 2 Anaerobic Digester plants grant-aided.
  - On-farm digesters
  - Limerick and Kildare





# THANK YOU FOR YOUR ATTENTION

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