Meeting climate obligations - a pathway for the dairy industry Teagasc National Dairy Conference

Prof Frank O'Mara, Director, Teagasc Nov 23 2021



Govt and EU policy targets on Greenhouse gases

- 2021 New Climate Action and Low Carbon Development Amendment Bill
 - National emissions to reduce by 51% by 2030, written into legislation
- EU has also increased its targets
 - *Fit for 55* targets a 55% reduction by 2030
- Climate change is central to licence to farm and in markets for our produce



Sectoral targets (Climate Action Plan)

% reduction required by 2030, compared to 2018 as a baseline



CLIMATE ACTION

ecuring Our Future

Irish agricultural greenhouse gas emissions, 1990 - 2020





What can agriculture do now to reduce emissions?



- Focus on nitrogen as methane hard to mitigate now
- Incentives / costs

5

Industry needs to work together











2050 climate neutral agriculture

Early stage technologies (Feed additives at pasture, breeding low emitting animals...) 1.5 – 3.0 Mt

2018: 23 Mt CO₂e Implement technologies in MACC 2 Mt CO₂e



Opportunities

- Sequester carbon in mineral soils, forestry and hedgerows – Carbon farming
- Reduce emissions from drained grassland peat soils through water table management
- Reduce electricity and diesel usage
- Opportunity to use/sell solar energy
- These measures are separate to agricultural GHG reduction requirements of 5-7Mt CO₂e
- But very important for post 2030

8





Pippa Hackett @ @pipp... · 9h ··· I was pleased to find out on my visit to @teagasc Moorepark that about 12% of their land area consists of diverse habitats including woodlands and a pond, and that they have planted nearly 3,000m of new native hedges since last year. #Biodiversity #Habitats #Pollinators #Dairy



	LULUCF 2018	
Emissions	9.6	
Removals	4.0	
(sequestration)	4.8	
Net LULUCF	4.8	Curtin's Farm solar installation

What will Teagasc do?

- Continue to support dairy farmers' livelihoods
- Promote technology and efficiency

9

- Advisory priority (€17m Signpost Programme)
- Accelerate research into new technologies
- Review calculations of emissions and sequestration
- Support diversification opportunities such as organics
- Develop, with others, a pathway to 2030 and beyond



