

## **Ireland Country Report May 2017**







## Renewable Energy Developments



- > RES H budget provision announced for RHI ( 2020 RES H displacement target (12%)
  - Targets increase in biomass boilers in (non ETS) commercial sector
    - Market outlet may stimulate collection of residues / consolidation / biorefining applications
  - Developing concepts for agri-residue / forestry residue solid fuel blends
    - Exergy systems to efficiently dry fibrous residues
    - Biomass Heating Solutions Ltd FBC technology
  - Community based bioenergy schemes demo district heating schemes



- Biogas Economic review of biogas completed
  - Waste + Silage AD can supply c. 7.5% of gaseous energy demand, offset c. 5% of GHG's
  - Issues:
    - Feedstock aggregation in fragmented agricultural market
      - Developing slurry filtration / nutrient recovery tech suite to for solids aggregat'n / liquor discharge
    - Developing routes to market  $1^{st}$  of 42 potential grid injection points underway
    - Infrastructure Deployment state funding mechanisms req'd to support deployment
    - Sustainability of silage digestion improved nutrient recycling & vehicle energy







- ➢ RES E − Emphasizes wind generation to achieve 2020 displacement target (40%)
  - New applications for REFIT subventions suspended pending RHI implementation
  - New waste to energy pyrolysis technology being proven Premier Green Energy
    - Continuous pyrolysis w/ syngas cracking to drive internal combustion CHP
    - Opening market to moderate scale waste processing
    - Feedstocks of variable character RDF / dried sludge / fibrous wastes
    - 1<sup>st</sup> deployment by yearend



- RES T Transport electrification/large load CNG are preferred routes for RES T
  - Gas Networks Ireland announced award to construct c 10 gaseous refueling points
  - Compression cost is limitation factor
    - need low-energy-cost compression technology.... "waste" heat??







**Bio Economic Development** 



**Sectoral Development Strategies** 

Office of Taoiseach - Expected **Policy Statement on Bioeconomic Development to Underpin Increasing Investment in Bioeconomic Development** 

10/23/2017

#### SFI to invest €72m in four new research centres

Updated / Thursday, 4 May 2017 15:36



Professor Mark Ferguson says the country needs to invest in areas of real potential to ensure future economic competitiveness



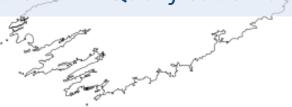
# Bio Economic Development Sectoral Development Strategy - Dairy



#### **3 Research Institutes**

- > Food for Health Centre
  - Nutraceuticals & functional foods
    - Peptides, amino acids and protein derivatives
    - Human oligo saccharides from carbohydrates
- Beacon
  - Bio based chemicals and materials
- Dairy Processing Technology Centre
  - Process enhancements such as nutrient recovery, WWT processing & renewable energy
  - Query re: RED II treatment of whey derived ethanol.... Qualification as 2<sup>nd</sup> generation fuel







## **Bio Economic Development**



Sectoral Development Strategy - Meat Processing

### **Meat Processing Research Institute Established**

- > 5<sup>th</sup> Quarter Valorisation
  - Nutraceuticals & functional foods
    - Peptides, amino acids and protein derivatives





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