

# Sugar Production in Ireland Past, Present & Future

John O'Donovan EFM Technical Services



# Sugar Production in Ireland

- The History------
- The Process-----
- The Present-----
- The Future-----



## Cane Sugar Refining

- 1660 Cane Sugar refined in Dublin
- Later in Belfast, Cork and Waterford
- 1766 Dublin had 59 refineries alone
- Tariffs, taxes and the 1801 Act of Union
- 1860 only 19 people employed
- 1885 cane sugar refining ceased



#### **Slaves**

- Irish as slaves in the cane fields up to 1850
- 40,000 to penal colonies in the 1<sup>st</sup> 40 yrs of 19<sup>th</sup> centuary



## Sugar Beet

- 1842 Sugar Beet--- in Co Antrim
- 1845 Sugar Beet Processed --- Achill



# First Sugar Factory

- 1851 Royal Irish Beet-Root Sugar Co.
- Mountmellick
- Cost £10,000
- 300T sugar beet/wk
- 22T sugar/wk
- 1862 fails due to tariffs, taxes etc.



#### **Transition**

- Nothing happens over next 40yrs
- 1908 Sinn Fein press for reestablishment of sugar beet industry
- Self sufficiency and replacements of imports
- Experimental crops 1911 to 1914
- Nothing happened native government



## Independence 1922

- Native Government formed
- Huge unemployment
- Industrially very weak
- Commission re Sugar industry
- Engineers check several sites nationwide----



## Second Sugar Company

- 1925 Site at Carlow checked
- 1926 Irish Sugar Manufacturing Co.
- 5<sup>th</sup> Jan the first sod is turned
- Mid Oct processing starts
- Less than 11 mts from turning of the first sod to sugar production.



#### **Investors**

- Syndicate of Belgians £400,000
- Irish backers invst £3,000
- Government make annual subsidy of £400,000
- Considered a good investment given the unemployment and import substitution



#### Resources and Skills

- Little or no trained Tradesmen
- Mechanical equipment was scarce
- No National Power Supply
- We had Enthusiasm, Courage and huge numbers of willing workers and growers



## Foreign Skills

- Engineers
- Technologists
- Chemists
- Thompsons Engineering
- Settled in Ireland
- Last of them died in the 1990's



#### **Difficult Times**

- 1932 Carlow produced 13,400T sugar
- Imports were 85,000T
- Strained relations with growers
- World depression and
- Plummiting sugar prices
- Good quality sugar could be produced economically in Ireland



## **Third Sugar Company**

- Comhlucht Suicre Eireann Teo (Irish Sugar Ltd)
- State owned and capitalise at £2m
- Shares sold to public quickly subscribed
- Semi state company until privatised in 1991
- Carlow factory was aquired for £450,000



#### **New Factories**

- 1934 Mallow, Thurles and Tuam
- Planning to commissioning < 1yr</p>
- Equipment mostly from Germany
- Payment was in the form of cattle
- 1935 sugar production 69,700T



#### War Years

- Spares, seed, oils, fertilizers, chemicals-
- Great engenuity to keep factories running
- 1945 production reached 88,509T imports were a meer 156T
- The war years propelled the company into self-sufficiency



#### Diversification

- Armer Agrichtural Machinery
- Soil Testing
- Limestone Quarries
- Erin Foods Heinz- Erin
- Research and Development
- Tuam Engineering
- Molasses Trading
- Animal Feeds Greenvale Animal Foods
- Gowla Gowla Grasslands & Bog Development



# EU / Change

- 1973 Ireland joined the EU
- Quotas and Free Market
- External opposition in local market
- Need to improve all aspects of business
- Huge capital investment programmes
- Tuam closes 1986
- Thurles closes 1989



#### **Privatisation**

- 1991 Irish Sugar was privatised
- Name change to Greencore
- Grower uptake of shares poor
- Diversifications and acquisitions dilute
   Irish Sugar influence within Greencore.



## **New Millennium**

- Rationalisation of quotas
- Carlow closes 11<sup>th</sup> Mar 2005
- €30m invested in Mallow
- Mallow closes may 2006



## **Production 2004**

- Acreage ------88,000ac (32,000Ha)
- Beet----- 1,466,000T
- Sugar----- 220,000T
- A Quota ----- 182,000T
- B Quota----- 18,200T



# **Process Stages**

- Reception
- Diffusion
- Purification
- Evaporation
- Crystalisation
- Sugar Handling
- Sugar packaging
- Energy Power plant
- Animal Feeds
- Environment



## Sales x Location 2004

- Siucra ----- 140,000T
- McKinney----- 40,000T
- UK------ 20,000T
- Outside EU----- 20,000T



### Sales x Product

- 2004 2014
- 1Kg----- 35,000T 30,000T
- Speciality Sugars-- 6,000T 5,000T
- Icing----- 4,000T 3,000T
- Paper Sacks----- 25,000T 20,000T
- Bulk----- 110,000T 102,000T



#### **Future**

- Irish Sugar Beet Bio-Refinery Group
- Beet Ethanol Energy Teoanta Ireland (BEET Ireland)



# **Proposals**

- Irish Sugar Beet BEET Ireland
- Beet-----1,200,000T
  1,800,000T
- Grain----- 56,000T
- Sugar---- 154,000T 250,000T
- Ethanol--50,000,000lt 11,000,000lt