

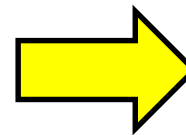
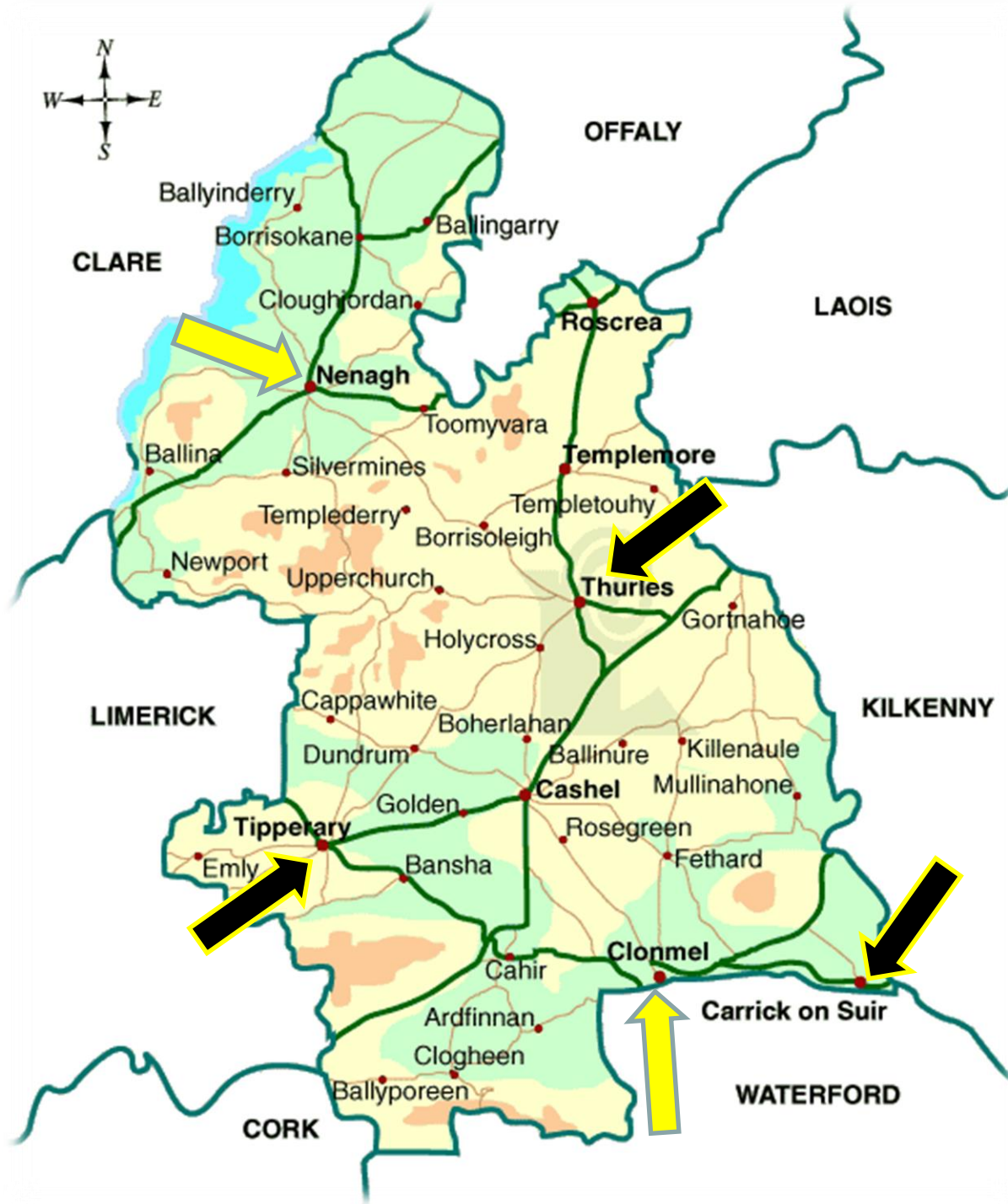
Renewable Energy: Making an Important Contribution to Economic Growth and Job Creation



Comhairle Contae Thiobraid Árann
Tipperary County Council

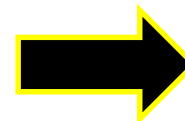
Brian Beck
Senior Planner
Tipperary County Council





Civic Centre & Municipal District Centres

- Clonmel
- Nenagh



Municipal District Centres

- Carrick-on-Suir
- Thurles
- Tipperary



Discussion Points

- Local Authorities Role
- Leading
- Supporting
- Facilitating
- Benefits to the Citizens and Businesses of Tipperary



Energy Roles of a Local Authority

- Local Authority has a wide scope
 - Governance at a local level
 - Planning
 - Forward planning (policies and objectives) & Renewable Energy Strategy
 - Development management – design and layout (regulatory function)
 - Housing, Water, buildings, transport – Large energy user
 - Economic Development
 - Energy service businesses (Boru Stoves Thurles, Wood Energy Solutions Cahir,
 - All businesses to be efficient
 - Renewables businesses.
 - Leader program focus on Low Carbon
 - Support, development and partnership with the Tipperary Energy Agency
 - Local Enterprise Office



Leading by Example

- Tipperary is the most energy efficient Local Authority
- 2020 target of 33% in energy performance improvements.
- 2015 TCC reached 35%.
- SEAI & LAMA awards
- Most Renewables installed (% & kW)
- RES-H & RES-E or CHP in most facilities
- Insulation, lighting and controls
- Over €1M pa extra for services
- Where can the next savings be made?
- Public lighting is the next big challenge. Dimming and trimming.





Projects To-Date Summary

- 83 projects completed since 2006
- TCC investment c. €1.5m+. Grants c.€1.5m
- Simple actions - turn off power/electrical appliances
- Key Energy Efficiency Projects/Outcomes
 - Building Stock – improved energy efficiency of majority
 - Social housing stock –improved energy efficiency of >50% of stock
 - Water treatment plants – all large pumps made more energy efficient
- Key Renewable Energy Projects/Outcomes
 - 80% oil use converted to biomass (wood) heating (saving of €240k pa, 16% biomass heat in Tipperary is used by TCC)
 - Photovoltaic panels (PV) in 9 public buildings (saving €32,000 pa), significant kick start to PV industry, 23% of national PV market share at the time, hosted 100+ visitors





Communicating the opportunities

- Energy in Agriculture
- Gurteen College,
Tipperary
- Opportunities
- Information
- New
Technologies





LARES & County Development Plans

- Renewable Energy Strategy for the merged county adopted in 2016.
- Significant public and councillor engagement.
- Reasonable development potential for all renewables in the county.
- Clear understanding of energy efficiency impact of development in development plans
- Clear understanding of our strengths and opportunities:
 - Energy in Agriculture – 1200 farmers looking for opportunities



Economic Impacts

- Retrofitting actions carried out in county 2010-2016
- Expenditure of €30M in 6 years across all bodies; equivalent of 100 Full time roles.
- Annual Biomass expenditure displacing oil of c. €2M and 40 Full time roles.
- Wind energy (assuming 7% of expenditure on local) €20M over 6 years or 60 Full time equivalent each year.
- Total economic impact 200 jobs per annum in the county relying on renewables.



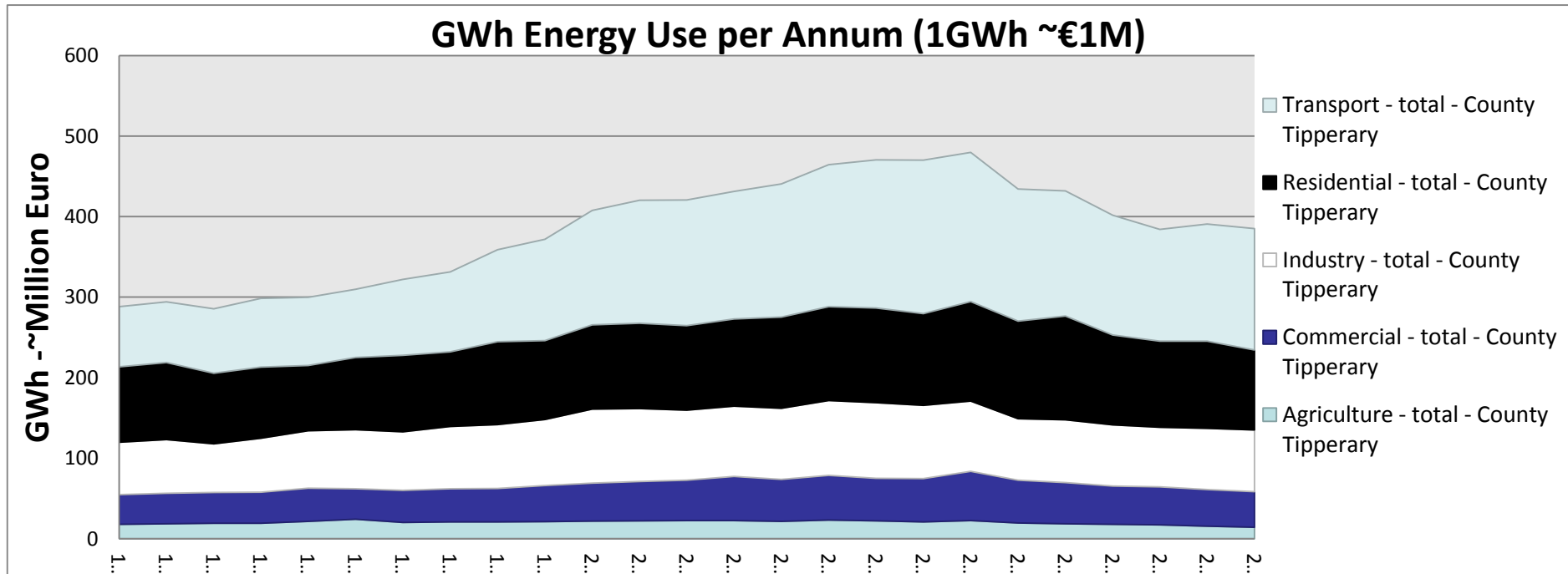
Covenant of Mayors

- County Wide Sustainable Energy Action Plan under Development
- Implementation of Regional Action Plan for Jobs; Leader; SEAI programs; EU programs.
- High level programme, EU Elena funding for implementation.
- Will seek to support the creation of additional jobs in this sector
 - Deep retrofit with Heat-pumps & PV (www.superhomes.ie)
 - Uptake of electric cars key for decarbonisation of transport.
 - LED public lighting
 - Further retro-fitting of the public housing stock.



Direction of County Tipperary

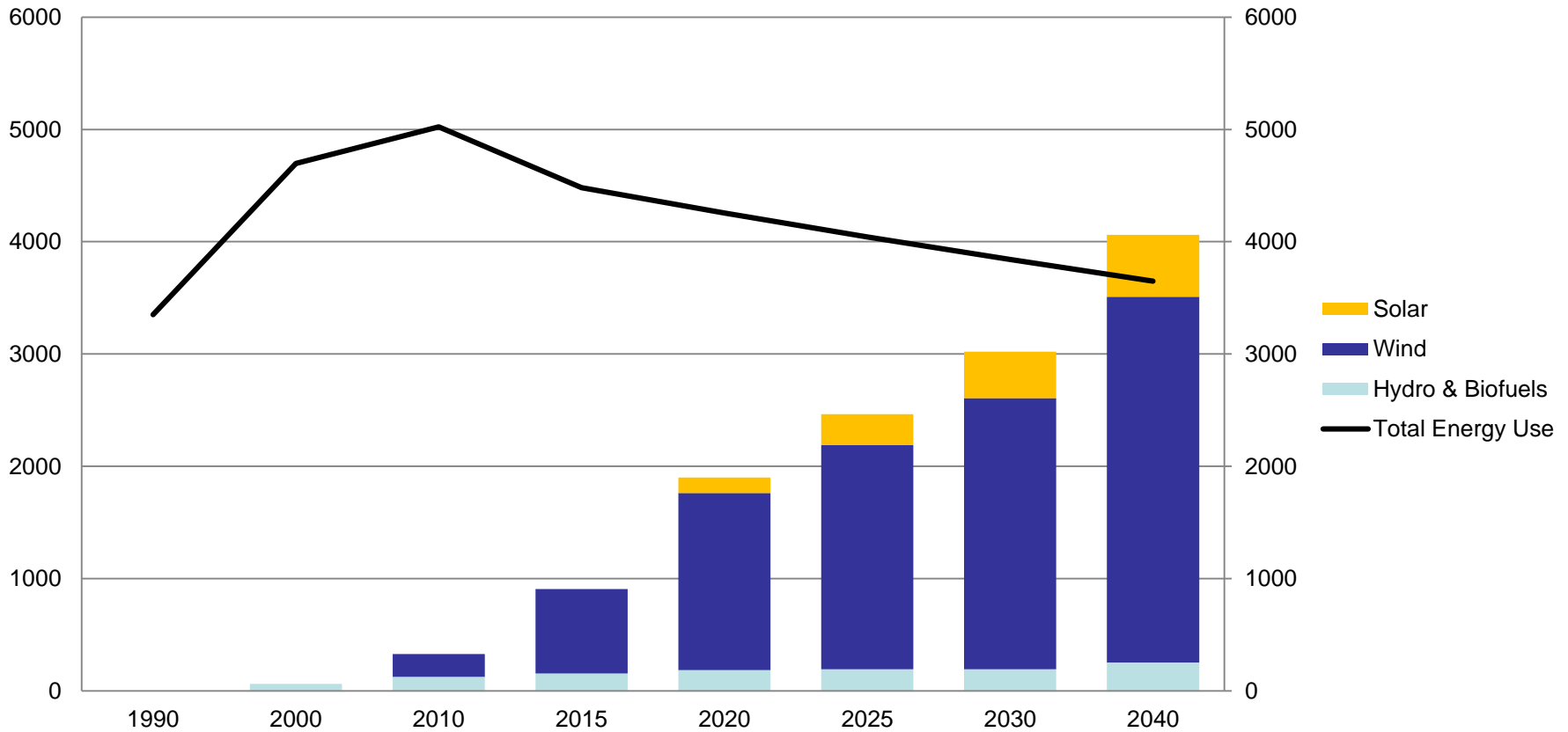
- Tipperary has c. €400M/ GWh Energy bill
- Aim to reduce and supply 100% RES by 2040
- Generation of RES from vast wind, solar, agri & forestry potential. Biomass for large boilers (RHI).
- Electrification of heat and transport key enabling actions





Direction of County Tipperary

100% Renewable Energy Tipperary by 2040



Windfarms

- Tipperary is fourth highest in permitted windfarms.





Summary

- Policy is the starting point.
- Practice what you preach.
- Anticipation for what is yet to come
- Pre-planning
- Renewable energy is more than just windfarms. Councils have a role in communicating this message.
- TCC plans to be at the centre of the growth of renewable energy and energy efficiency in the years to come.





Buíochas



Thank You

brian.beck@tipperarycoco.ie
www.tipperarycoco.ie

